

```
1 ##fileformat=VCFv4.1
2 ##ALT=<ID=NON_REF,Description="Represents any possible alternative allele at this location">
3 ##FILTER=<ID=LowQual,Description="Low quality">
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5 ##FORMAT=<ID=AD,Number=.,Type=Integer,Description="Allelic depths for the ref and alt alleles in
6 ##FORMAT=<ID=DP,Number=1,Type=Integer,Description="Approximate read depth (reads with MQ=255 or w
7 ##FORMAT=<ID=GQ,Number=1,Type=Integer,Description="Genotype Quality">
8 ##FORMAT=<ID=GT,Number=1,Type=String,Description="Genotype">
9 ##FORMAT=<ID=MIN_DP,Number=1,Type=Integer,Description="Minimum DP observed within the GVCf block"
10 ##FORMAT=<ID=PGT,Number=1,Type=String,Description="Physical phasing haplotype information, descri
11 ##FORMAT=<ID=PID,Number=1,Type=String,Description="Physical phasing ID information, where each un
12 ##FORMAT=<ID=PL,Number=G,Type=Integer,Description="Normalized, Phred-scaled likelihoods for genot
13 ##FORMAT=<ID=RGQ,Number=1,Type=Integer,Description="Unconditional reference genotype confidence,
14 ##FORMAT=<ID=SB,Number=4,Type=Integer,Description="Per-sample component statistics which comprise
15 ##GATKCommandLine.GenotypeGVCFs=<ID=GenotypeGVCFs,Version=3.4-46-gbc02625,Date="Tue Dec 27 11:11:
16 ##GATKCommandLine.HaplotypeCaller=<ID=HaplotypeCaller,Version=3.4-46-gbc02625,Date="Wed Dec 14 16
17 ##GATKCommandLine.SelectVariants=<ID=SelectVariants,Version=3.4-46-gbc02625,Date="Tue Dec 27 13:1
18 ##GATKCommandLine.VariantFiltration=<ID=VariantFiltration,Version=3.4-46-gbc02625,Date="Tue Dec 2
19 ##GVCfBlock0-1=minGQ=0 (inclusive),maxGQ=1 (exclusive)
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21 ##GVCfBlock10-11=minGQ=10 (inclusive),maxGQ=11 (exclusive)
22 ##GVCfBlock11-12=minGQ=11 (inclusive),maxGQ=12 (exclusive)
23 ##GVCfBlock12-13=minGQ=12 (inclusive),maxGQ=13 (exclusive)
24 ##GVCfBlock13-14=minGQ=13 (inclusive),maxGQ=14 (exclusive)
25 ##GVCfBlock14-15=minGQ=14 (inclusive),maxGQ=15 (exclusive)
26 ##GVCfBlock15-16=minGQ=15 (inclusive),maxGQ=16 (exclusive)
27 ##GVCfBlock16-17=minGQ=16 (inclusive),maxGQ=17 (exclusive)
28 ##GVCfBlock17-18=minGQ=17 (inclusive),maxGQ=18 (exclusive)
29 ##GVCfBlock18-19=minGQ=18 (inclusive),maxGQ=19 (exclusive)
30 ##GVCfBlock19-20=minGQ=19 (inclusive),maxGQ=20 (exclusive)
31 ##GVCfBlock2-3=minGQ=2 (inclusive),maxGQ=3 (exclusive)
32 ##GVCfBlock20-21=minGQ=20 (inclusive),maxGQ=21 (exclusive)
33 ##GVCfBlock21-22=minGQ=21 (inclusive),maxGQ=22 (exclusive)
34 ##GVCfBlock22-23=minGQ=22 (inclusive),maxGQ=23 (exclusive)
35 ##GVCfBlock23-24=minGQ=23 (inclusive),maxGQ=24 (exclusive)
36 ##GVCfBlock24-25=minGQ=24 (inclusive),maxGQ=25 (exclusive)
37 ##GVCfBlock25-26=minGQ=25 (inclusive),maxGQ=26 (exclusive)
38 ##GVCfBlock26-27=minGQ=26 (inclusive),maxGQ=27 (exclusive)
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41 ##GVCfBlock29-30=minGQ=29 (inclusive),maxGQ=30 (exclusive)
42 ##GVCfBlock3-4=minGQ=3 (inclusive),maxGQ=4 (exclusive)
43 ##GVCfBlock30-31=minGQ=30 (inclusive),maxGQ=31 (exclusive)
44 ##GVCfBlock31-32=minGQ=31 (inclusive),maxGQ=32 (exclusive)
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50 ##GVCfBlock37-38=minGQ=37 (inclusive),maxGQ=38 (exclusive)
51 ##GVCfBlock38-39=minGQ=38 (inclusive),maxGQ=39 (exclusive)
52 ##GVCfBlock39-40=minGQ=39 (inclusive),maxGQ=40 (exclusive)
53 ##GVCfBlock4-5=minGQ=4 (inclusive),maxGQ=5 (exclusive)
54 ##GVCfBlock40-41=minGQ=40 (inclusive),maxGQ=41 (exclusive)
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56 ##GVCfBlock42-43=minGQ=42 (inclusive),maxGQ=43 (exclusive)
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60 ##GVCfBlock46-47=minGQ=46 (inclusive),maxGQ=47 (exclusive)
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64 ##GVCfBlock5-6=minGQ=5 (inclusive),maxGQ=6 (exclusive)
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67 ##GVCfBlock52-53=minGQ=52 (inclusive),maxGQ=53 (exclusive)
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70 ##GVCfBlock55-56=minGQ=55 (inclusive),maxGQ=56 (exclusive)
71 ##GVCfBlock56-57=minGQ=56 (inclusive),maxGQ=57 (exclusive)
72 ##GVCfBlock57-58=minGQ=57 (inclusive),maxGQ=58 (exclusive)
73 ##GVCfBlock58-59=minGQ=58 (inclusive),maxGQ=59 (exclusive)
74 ##GVCfBlock59-60=minGQ=59 (inclusive),maxGQ=60 (exclusive)
75 ##GVCfBlock6-7=minGQ=6 (inclusive),maxGQ=7 (exclusive)
76 ##GVCfBlock60-70=minGQ=60 (inclusive),maxGQ=70 (exclusive)
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78 ##GVCBlock70-80=minGQ=70 (inclusive),maxGQ=80 (exclusive)
79 ##GVCBlock8-9=minGQ=8 (inclusive),maxGQ=9 (exclusive)
80 ##GVCBlock80-90=minGQ=80 (inclusive),maxGQ=90 (exclusive)
81 ##GVCBlock9-10=minGQ=9 (inclusive),maxGQ=10 (exclusive)
82 ##GVCBlock90-99=minGQ=90 (inclusive),maxGQ=99 (exclusive)
83 ##GVCBlock99-2147483647=minGQ=99 (inclusive),maxGQ=2147483647 (exclusive)
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85 ##INFO=<ID=AF,Number=A,Type=Float,Description="Allele Frequency, for each ALT allele, in the same
86 ##INFO=<ID=AN,Number=1,Type=Integer,Description="Total number of alleles in called genotypes">
87 ##INFO=<ID=BaseQRankSum,Number=1,Type=Float,Description="Z-score from Wilcoxon rank sum test of A
88 ##INFO=<ID=ClippingRankSum,Number=1,Type=Float,Description="Z-score From Wilcoxon rank sum test o
89 ##INFO=<ID=DB,Number=0,Type=Flag,Description="dbSNP Membership">
90 ##INFO=<ID=DP,Number=1,Type=Integer,Description="Approximate read depth; some reads may have been
91 ##INFO=<ID=DS,Number=0,Type=Flag,Description="Were any of the samples downsampled?">
92 ##INFO=<ID=END,Number=1,Type=Integer,Description="Stop position of the interval">
93 ##INFO=<ID=FS,Number=1,Type=Float,Description="Phred-scaled p-value using Fisher's exact test to
94 ##INFO=<ID=HaplotypeScore,Number=1,Type=Float,Description="Consistency of the site with at most t
95 ##INFO=<ID=InbreedingCoeff,Number=1,Type=Float,Description="Inbreeding coefficient as estimated f
96 ##INFO=<ID=MLEAC,Number=A,Type=Integer,Description="Maximum likelihood expectation (MLE) for the
97 ##INFO=<ID=MLEAF,Number=A,Type=Float,Description="Maximum likelihood expectation (MLE) for the al
98 ##INFO=<ID=MQ,Number=1,Type=Float,Description="RMS Mapping Quality">
99 ##INFO=<ID=MQRankSum,Number=1,Type=Float,Description="Z-score From Wilcoxon rank sum test of Alt
100 ##INFO=<ID=QD,Number=1,Type=Float,Description="Variant Confidence/Quality by Depth">
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102 ##INFO=<ID=SOR,Number=1,Type=Float,Description="Symmetric Odds Ratio of 2x2 contingency table to
103 ##contig=<ID=chrY,length=59373566>
104 ##reference=file:///home/Lab/download/pipeline/chrY.fa
105 ##source=SelectVariants
106 #CHROM POS ID REF ALT QUAL FILTER INFO FORMAT AAGC022166D AAGC02217
107 chrY 922101 . A C 132.94 my_snp_filter AC=10;AF=1.00;AN=10;DP=17;FS=0.00
108 chrY 922139 . T C 562.74 my_snp_filter AC=10;AF=1.00;AN=10;DP=17;FS=0.00
109 chrY 922140 . G A 562.74 my_snp_filter AC=10;AF=1.00;AN=10;DP=17;FS=0.00
110 chrY 922153 . A T 562.74 my_snp_filter AC=10;AF=1.00;AN=10;DP=17;FS=0.00
111 chrY 922184 . G T 459.65 my_snp_filter AC=8;AF=1.00;AN=8;DP=17;FS=0.000;
112 chrY 922185 . G A 459.65 my_snp_filter AC=8;AF=1.00;AN=8;DP=17;FS=0.000;
113 chrY 1432461 . G A 35.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
114 chrY 1581920 . C G 67.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
115 chrY 1581921 . C A 67.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
116 chrY 1581926 . C T 67.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
117 chrY 1581935 . C A 67.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
118 chrY 1581939 . G T 67.84 my_snp_filter AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
119 chrY 2649476 . A T 3118.42 PASS AC=40;AF=1.00;AN=40;DP=84;FS=0.000;Inbre
120 chrY 2649480 . C G 3068.45 PASS AC=40;AF=1.00;AN=40;DP=82;FS=0.000;Inbre
121 chrY 2653141 . T C 443.96 PASS AC=6;AF=0.086;AN=70;DP=273;FS=0.000;Inbre
122 chrY 2658159 . G A 924.74 PASS AC=6;AF=0.094;AN=64;DP=325;FS=0.000;Inbre
123 chrY 2661694 . A G 6444.13 PASS AC=60;AF=1.00;AN=60;DP=228;FS=0.000;Inbre
124 chrY 2663171 . T C 68.60 PASS AC=2;AF=0.029;AN=70;DP=421;FS=0.000;Inbre
125 chrY 2666847 . T C 368.23 PASS AC=2;AF=0.029;AN=70;DP=507;FS=0.000;Inbre
126 chrY 2667652 . A G 926.62 PASS AC=6;AF=0.091;AN=66;DP=682;FS=0.000;Inbre
127 chrY 2668456 . T C 12970.90 PASS AC=70;AF=1.00;AN=70;DP=469;FS=0.0
128 chrY 2680737 . A G 222.28 PASS AC=8;AF=0.267;AN=30;DP=156;FS=0.000;Inbre
129 chrY 2681382 . A G 1013.82 PASS AC=6;AF=0.086;AN=70;DP=434;FS=0.000;Inbre
130 chrY 2683469 . C T 16074.27 PASS AC=46;AF=0.657;AN=70;BaseQRankSum
131 chrY 2686422 . A T 788.38 PASS AC=6;AF=0.273;AN=22;DP=95;FS=0.000;Inbre
132 chrY 2686555 . A G 1264.93 PASS AC=18;AF=1.00;AN=18;DP=78;FS=0.000;MLEAC=
133 chrY 2686727 . A G 13351.91 PASS AC=68;AF=1.00;AN=68;DP=462;FS=0.0
134 chrY 2687563 . A G 31.18 PASS AC=1;AF=0.015;AN=68;BaseQRankSum=-1.568e+
135 chrY 2692806 . C T 185.90 PASS AC=2;AF=0.029;AN=70;DP=376;FS=0.000;Inbre
136 chrY 2696691 . G A 272.47 PASS AC=2;AF=0.032;AN=62;DP=200;FS=0.000;Inbre
137 chrY 2698086 . G C 1229.03 PASS AC=6;AF=0.158;AN=38;DP=194;FS=0.000;Inbre
138 chrY 2700275 . A G 46.82 PASS AC=2;AF=0.037;AN=54;DP=172;FS=0.000;Inbre
139 chrY 2707859 . G C 15814.27 PASS AC=54;AF=0.818;AN=66;DP=642;FS=0.
140 chrY 2709436 . A G 190.66 PASS AC=4;AF=0.057;AN=70;DP=424;FS=0.000;Inbre
141 chrY 2713096 . G A 75.03 PASS AC=2;AF=0.029;AN=70;DP=567;FS=0.000;Inbre
142 chrY 2722506 . A G 13966.91 PASS AC=58;AF=0.829;AN=70;DP=533;FS=0.
143 chrY 2724768 . G C 1422.21 PASS AC=6;AF=0.143;AN=42;DP=179;FS=0.000;Inbre
144 chrY 2726063 . G A 226.41 PASS AC=2;AF=0.029;AN=70;DP=364;FS=0.000;Inbre
145 chrY 2726256 . C T 12693.30 PASS AC=50;AF=0.735;AN=68;DP=577;FS=0.
146 chrY 2726402 . T G 1093.29 PASS AC=6;AF=0.086;AN=70;DP=552;FS=0.000;Inbre
147 chrY 2728927 . A G 958.79 PASS AC=6;AF=0.086;AN=70;DP=746;FS=0.000;Inbre
148 chrY 2730980 . G T 457.47 PASS AC=2;AF=0.029;AN=68;DP=522;FS=0.000;Inbre
149 chrY 2734854 . C T 10234.72 PASS AC=50;AF=0.735;AN=68;BaseQRankSum
150 chrY 2735198 . G A 886.64 PASS AC=2;AF=0.029;AN=70;DP=574;FS=0.000;Inbre
151 chrY 2737043 . C T 1422.94 PASS AC=6;AF=0.086;AN=70;DP=646;FS=0.000;Inbre
152 chrY 2738273 . G A 2764.12 PASS AC=12;AF=0.171;AN=70;DP=643;FS=0.000;Inbre

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153	chrY	2738986	.	C	T	653.25	PASS	AC=18;AF=0.500;AN=36;DP=144;FS=0.000;Inbr
154	chrY	2742403	.	T	C	36.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.026e+
155	chrY	2746126	.	A	C	47.96	PASS	AC=2;AF=0.037;AN=54;DP=215;FS=0.000;Inbre
156	chrY	2746127	.	G	C	48.01	PASS	AC=2;AF=0.037;AN=54;DP=215;FS=0.000;Inbre
157	chrY	2746129	.	A	G	47.99	PASS	AC=2;AF=0.037;AN=54;DP=216;FS=0.000;Inbre
158	chrY	2750408	.	A	G	1010.29	PASS	AC=6;AF=0.088;AN=68;DP=498;FS=0.000;Inbre
159	chrY	2752344	.	G	A	101.83	PASS	AC=2;AF=0.048;AN=42;DP=130;FS=0.000;Inbre
160	chrY	2755358	.	C	T	1298.56	PASS	AC=6;AF=0.088;AN=68;DP=372;FS=0.000;Inbre
161	chrY	2756333	.	G	C	547.28	PASS	AC=2;AF=0.029;AN=70;DP=472;FS=0.000;Inbre
162	chrY	2756471	.	T	A	14086.97	PASS	AC=58;AF=0.829;AN=70;DP=571;FS=0.000
163	chrY	2758358	.	G	T	46.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.616e+
164	chrY	2758368	.	A	T	46.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.616e+
165	chrY	2759925	.	G	T	81.03	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.296;Cl
166	chrY	2759928	.	G	T	81.09	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=2.05;Cli
167	chrY	2759936	.	G	A	126.04	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=2.07;Cli
168	chrY	2759943	.	G	A	127.08	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.65;Cli
169	chrY	2759947	.	C	G	129.51	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=1.65;Cli
170	chrY	2759959	.	C	T	244.11	PASS	AC=2;AF=0.333;AN=6;BaseQRankSum=1.23;Clip
171	chrY	2759966	.	G	A	243.99	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=1.22;Cli
172	chrY	2759968	.	G	A	244.09	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=1.23;Cli
173	chrY	2759969	.	C	T	244.09	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=1.22;Cli
174	chrY	2759997	.	T	C	51.25	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQRankSum=
175	chrY	2760000	.	A	G	50.77	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQRankSum=
176	chrY	2760821	.	G	C	178.33	PASS	AC=2;AF=0.029;AN=68;DP=293;FS=0.000;Inbre
177	chrY	2761008	.	A	G	428.32	PASS	AC=2;AF=0.029;AN=70;DP=296;FS=0.000;Inbre
178	chrY	2765681	.	G	C	1234.50	PASS	AC=6;AF=0.088;AN=68;DP=353;FS=0.000;Inbre
179	chrY	2768208	.	G	A	117.84	PASS	AC=4;AF=0.059;AN=68;DP=253;FS=0.000;Inbre
180	chrY	2786167	.	G	A	133.73	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-4.670e-
181	chrY	2786194	.	G	C	452.15	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-1.240e-
182	chrY	2786242	.	A	G	2588.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-1.493e+
183	chrY	2786244	.	C	T	2610.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-1.813e+
184	chrY	2786264	.	G	A	1409.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-2.136e+
185	chrY	2786276	.	T	C	1386.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-9.130e-
186	chrY	2786278	.	G	A	2248.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=0.053;Cl
187	chrY	2786282	.	T	C	349	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=-1.920e+
188	chrY	2786289	.	T	G	1725.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-2.650e+
189	chrY	2786326	.	T	C	148.30	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-7.420e-
190	chrY	2786337	.	T	G	330.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.694e+
191	chrY	2786386	.	G	T	76.60	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.00;Cli
192	chrY	2786397	.	T	C	48.30	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
193	chrY	2786402	.	G	C	71.17	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.773;Cl
194	chrY	2786417	.	G	A	44.81	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
195	chrY	2786440	.	T	G	33.48	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
196	chrY	2786452	.	C	A	46.17	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=1.40;Cli
197	chrY	2786455	.	T	C	229.72	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.96;Cli
198	chrY	2786460	.	C	T	223.27	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.27;Cli
199	chrY	2786464	.	C	A	223.43	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.86;Cli
200	chrY	2786474	.	T	G	328.82	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-1.470e+
201	chrY	2786789	.	T	C	39.58	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
202	chrY	2787770	.	A	G	479.36	PASS	AC=2;AF=0.029;AN=70;DP=570;FS=0.000;Inbre
203	chrY	2790145	.	C	G	1189.06	PASS	AC=26;AF=0.591;AN=44;DP=174;FS=0.000;Inbr
204	chrY	2794263	.	C	G	3115.75	PASS	AC=34;AF=0.531;AN=64;DP=295;FS=0.000;Inbr
205	chrY	2794569	.	C	G	1804.85	PASS	AC=6;AF=0.086;AN=70;DP=528;FS=0.000;Inbre
206	chrY	2794730	.	C	T	560.36	PASS	AC=2;AF=0.029;AN=70;DP=455;FS=0.000;Inbre
207	chrY	2802435	.	G	C	6876.26	PASS	AC=40;AF=0.571;AN=70;DP=468;FS=0.000;Inbr
208	chrY	2803297	.	C	T	3001.79	PASS	AC=36;AF=0.667;AN=54;DP=200;FS=0.000;Inbr
209	chrY	2803717	.	T	C	5434.03	PASS	AC=52;AF=1.00;AN=52;DP=208;FS=0.000;Inbre
210	chrY	2808087	.	A	G	1102.81	PASS	AC=6;AF=0.086;AN=70;DP=325;FS=0.000;Inbre
211	chrY	2810003	.	G	A	1144.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.55;Cli
212	chrY	2810583	.	G	A	1696.95	PASS	AC=16;AF=1.00;AN=16;DP=79;FS=0.000;MLEAC=
213	chrY	2811034	.	G	C	4308.82	PASS	AC=42;AF=0.700;AN=60;DP=253;FS=0.000;Inbr
214	chrY	2811158	.	G	A	633.59	PASS	AC=6;AF=0.086;AN=70;DP=380;FS=0.000;Inbre
215	chrY	2811660	.	G	A	355.45	PASS	AC=2;AF=0.029;AN=70;DP=507;FS=0.000;Inbre
216	chrY	2817429	.	G	C	14195.94	PASS	AC=68;AF=1.00;AN=68;DP=460;FS=0.000
217	chrY	2821176	.	T	C	526.26	PASS	AC=6;AF=0.111;AN=54;DP=148;FS=0.000;Inbre
218	chrY	2824720	.	A	C	217.60	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=0.573;Cl
219	chrY	2824737	.	G	C	132.81	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-7.510e-
220	chrY	2825845	.	T	C	9009.59	PASS	AC=46;AF=0.657;AN=70;DP=480;FS=0.000;Inbr
221	chrY	2828425	.	A	G	1086.23	PASS	AC=6;AF=0.086;AN=70;DP=315;FS=0.000;Inbre
222	chrY	2830077	.	C	T	217.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.495e+
223	chrY	2832907	.	T	C	1280.76	PASS	AC=6;AF=0.115;AN=52;DP=204;FS=0.000;Inbre
224	chrY	2834410	.	G	A	1225.93	PASS	AC=6;AF=0.091;AN=66;DP=251;FS=0.000;Inbre
225	chrY	2837595	.	G	A	9930.32	PASS	AC=52;AF=0.743;AN=70;DP=502;FS=0.000;Inbr
226	chrY	2838019	.	G	T	49.60	PASS	AC=2;AF=0.042;AN=48;DP=172;FS=0.000;Inbre
227	chrY	2838021	.	A	T	49.54	PASS	AC=2;AF=0.043;AN=46;DP=173;FS=0.000;Inbre
228	chrY	2838031	.	C	T	49.24	PASS	AC=2;AF=0.043;AN=46;DP=182;FS=0.000;Inbre

229	chrY	2838244	.	G	A	908.64	PASS	AC=6;AF=0.091;AN=66;DP=301;FS=0.000;Inbre
230	chrY	2842212	.	A	T,*	7902.05	PASS	AC=49,2;AF=0.942,0.038;AN=52;BaseQRankSum
231	chrY	2842214	.	T	A	7735.48	PASS	AC=49;AF=0.980;AN=50;DP=176;FS=0.000;Inbr
232	chrY	2849874	.	C	T	6862.02	PASS	AC=42;AF=0.636;AN=66;DP=401;FS=0.000;Inbr
233	chrY	2854733	.	T	C	1025.14	PASS	AC=6;AF=0.086;AN=70;DP=510;FS=0.000;Inbre
234	chrY	2858606	.	G	A	33.30	my_snp_filter	AC=2;AF=0.077;AN=26;DP=189;FS=0.0
235	chrY	2858619	.	G	A	32.08	my_snp_filter	AC=2;AF=0.063;AN=32;DP=192;FS=0.0
236	chrY	2859544	.	A	G	999.82	PASS	AC=6;AF=0.150;AN=40;DP=157;FS=0.000;Inbre
237	chrY	2860310	.	G	A	31.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-9.220e-
238	chrY	2860316	.	C	A	31.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
239	chrY	2860628	.	G	T	35.86	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.380e+
240	chrY	2860635	.	C	A	36.33	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.380e+
241	chrY	2860701	.	T	C	617.11	PASS	AC=6;AF=0.097;AN=62;DP=210;FS=0.000;Inbre
242	chrY	2863171	.	G	A	1006.73	PASS	AC=6;AF=0.086;AN=70;DP=433;FS=0.000;Inbre
243	chrY	2863665	.	G	A	3498.11	PASS	AC=40;AF=0.769;AN=52;DP=227;FS=0.000;Inbr
244	chrY	2864163	.	T	G	766.56	PASS	AC=6;AF=0.086;AN=70;DP=315;FS=0.000;Inbre
245	chrY	2864281	.	T	A	1731.32	PASS	AC=6;AF=0.088;AN=68;DP=307;FS=0.000;Inbre
246	chrY	2864283	.	G	A	1698.31	PASS	AC=6;AF=0.088;AN=68;DP=305;FS=0.000;Inbre
247	chrY	2864284	.	T	A	1698.35	PASS	AC=6;AF=0.088;AN=68;DP=303;FS=0.000;Inbre
248	chrY	2864957	.	G	A	2757.63	PASS	AC=40;AF=0.625;AN=64;DP=247;FS=0.000;Inbr
249	chrY	2865199	.	C	G	46.36	PASS	AC=2;AF=0.029;AN=70;DP=306;FS=0.000;Inbre
250	chrY	2866613	.	T	C	2695.36	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
251	chrY	2866614	.	G	A	2695.36	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
252	chrY	2866644	.	G	A	739.86	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
253	chrY	2866886	.	A	G	1304.59	PASS	AC=18;AF=0.500;AN=36;DP=183;FS=0.000;Inbr
254	chrY	2866903	.	A	G	1652.33	PASS	AC=30;AF=0.625;AN=48;DP=204;FS=0.000;Inbr
255	chrY	2866931	.	T	C	3631.13	PASS	AC=38;AF=0.679;AN=56;DP=258;FS=0.000;Inbr
256	chrY	2868167	.	A	G	1600.19	PASS	AC=6;AF=0.086;AN=70;DP=595;FS=0.000;Inbre
257	chrY	2869848	.	C	T	4198.61	PASS	AC=44;AF=0.710;AN=62;DP=298;FS=0.000;Inbr
258	chrY	2871758	.	A	C	428.18	PASS	AC=2;AF=0.029;AN=70;DP=541;FS=0.000;Inbre
259	chrY	2873519	.	G	A	12317.31	PASS	AC=50;AF=0.735;AN=68;DP=572;FS=0.0
260	chrY	2876872	.	G	A	37.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.358;Cl
261	chrY	2876873	.	C	A	37.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.23;Cli
262	chrY	2887726	.	G	C	241.64	PASS	AC=2;AF=0.030;AN=66;DP=367;FS=0.000;Inbre
263	chrY	2887824	.	A	C	9820.04	PASS	AC=66;AF=1.00;AN=66;DP=356;FS=0.000;Inbre
264	chrY	2888614	.	C	T	3545.30	PASS	AC=32;AF=0.516;AN=62;DP=262;FS=0.000;Inbr
265	chrY	2888660	.	G	C	108.12	PASS	AC=2;AF=0.032;AN=62;DP=140;FS=0.000;Inbre
266	chrY	2897433	.	G	C	4708.86	PASS	AC=18;AF=1.00;AN=18;DP=185;FS=0.000;MLEAC
267	chrY	2902839	.	C	T	10575.91	PASS	AC=54;AF=0.818;AN=66;DP=459;FS=0.0
268	chrY	2904375	.	G	A	30.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
269	chrY	2904379	.	G	T	30.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.980e-
270	chrY	2906977	.	T	G	4131.76	PASS	AC=44;AF=0.710;AN=62;DP=307;FS=0.000;Inbr
271	chrY	2912385	.	C	T	4973.66	PASS	AC=54;AF=0.818;AN=66;DP=266;FS=0.000;Inbr
272	chrY	2918242	.	A	G	1296.41	PASS	AC=6;AF=0.086;AN=70;DP=593;FS=0.000;Inbre
273	chrY	2920188	.	G	A	141.86	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=-2.510e-
274	chrY	2921781	.	C	A	50.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.890e-
275	chrY	2924386	.	T	C	710.33	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.085;C
276	chrY	2924522	.	A	T	1139.41	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=0.099;C
277	chrY	2925191	.	C	G	6348.62	PASS	AC=50;AF=0.735;AN=68;DP=327;FS=0.000;Inbr
278	chrY	2925874	.	A	G	1757.18	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.358;C
279	chrY	2927171	.	G	A	861.93	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=1.50;Cli
280	chrY	2929155	.	T	C	1332.66	PASS	AC=6;AF=0.097;AN=62;DP=257;FS=0.000;Inbre
281	chrY	2930985	.	A	T	56.95	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
282	chrY	2931732	.	A	G	358.90	PASS	AC=6;AF=0.200;AN=30;DP=73;FS=0.000;Inbre
283	chrY	2932676	.	C	A	41.69	PASS	AC=2;AF=0.029;AN=68;DP=302;FS=0.000;Inbre
284	chrY	2932746	.	A	G	4118.88	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-2.920e-
285	chrY	2934179	.	G	A	3390.96	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=1.70;Cl
286	chrY	2934185	.	T	C	3465.01	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=0.373;C
287	chrY	2934326	.	C	T	603.23	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQRankSum=
288	chrY	2934458	.	C	T	242.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.35;Cli
289	chrY	2934644	.	G	A	556.94	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=-6.110e-
290	chrY	2936019	.	C	G	707.24	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=-5.880e-
291	chrY	2936811	.	A	G	187.69	PASS	AC=2;AF=0.029;AN=70;DP=466;FS=0.000;Inbre
292	chrY	2936920	.	T	G	5560.12	PASS	AC=52;AF=1.00;AN=52;DP=193;FS=0.000;Inbre
293	chrY	2938681	.	C	T	188.02	PASS	AC=2;AF=0.029;AN=70;DP=475;FS=0.000;Inbre
294	chrY	2939584	.	G	A	56.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.74;Cli
295	chrY	2940096	.	G	A	39.66	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
296	chrY	2940194	.	A	T	82.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.849;Cl
297	chrY	2940479	.	T	A	182.94	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-7.510e-
298	chrY	2942311	.	A	G	607.25	PASS	AC=6;AF=0.088;AN=68;DP=206;FS=0.000;Inbre
299	chrY	2945811	.	G	C	537.25	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.44;Cl
300	chrY	2945859	.	T	C	102.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.61;Cli
301	chrY	2945865	.	C	A	112.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.61;Cli
302	chrY	2947292	.	C	A	183.72	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=-2.548e+
303	chrY	2956378	.	C	G	917.49	PASS	AC=6;AF=0.086;AN=70;DP=568;FS=0.000;Inbre
304	chrY	2957650	.	A	G	32.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=

305	chrY	2958525	.	C	G	100.25	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.83;Cli
306	chrY	2960755	.	C	T	690.26	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.831;C
307	chrY	2961302	.	C	T	249.27	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=2.22;Cli
308	chrY	2963726	.	G	A	52.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.258;Cl
309	chrY	2964550	.	G	A	91.62	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=2.38;Cli
310	chrY	2964926	.	G	A	1062.07	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=1.70;Cli
311	chrY	2965133	.	C	T	483.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.350;Cl
312	chrY	2965271	.	A	G	182.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.370e-
313	chrY	2967294	.	C	A	753.19	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.793;C
314	chrY	2967614	.	A	C	3404.27	PASS	AC=36;AF=1.00;AN=36;BaseQRankSum=1.39;Cli
315	chrY	2969875	.	A	G	520.38	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=0.00;Cli
316	chrY	2970099	.	C	G	107.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.536;Cl
317	chrY	2971032	.	T	C	170.52	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-5.660e-
318	chrY	2971140	.	T	A	510.41	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-9.560e-
319	chrY	2971503	.	A	G	40.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-2.578e+
320	chrY	2973369	.	C	T	255.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.382;Cl
321	chrY	2973474	.	C	T	3262.42	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.618;C
322	chrY	2973480	.	T	A	3066.40	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.700e
323	chrY	2973568	.	G	A	230.36	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.84;Cli
324	chrY	2973581	.	T	C	277.30	PASS	AC=2;AF=0.030;AN=66;DP=319;FS=0.000;Inbre
325	chrY	2979895	.	G	A	1357.29	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-2.800e-
326	chrY	2985960	.	A	G	466.36	PASS	AC=2;AF=0.032;AN=62;DP=248;FS=0.000;Inbre
327	chrY	2987520	.	T	C	559.77	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQRankSum=
328	chrY	2987545	.	A	G	598.44	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQRankSum=
329	chrY	2987695	.	A	G	1021.66	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=-6.140e
330	chrY	2987865	.	A	T	56.25	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=1.23;Cli
331	chrY	2988075	.	G	A	83.99	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
332	chrY	2988358	.	G	T	332.20	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.64;Cli
333	chrY	2988441	.	G	C	302.45	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
334	chrY	2988458	.	T	C	868.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.774e+
335	chrY	2988490	.	C	G	703.72	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.00;Cl
336	chrY	2993302	.	A	G	673.36	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=-1.480e+
337	chrY	2993527	.	G	A	968.09	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=0.743;Cl
338	chrY	2993701	.	A	G	595.31	PASS	AC=6;AF=0.086;AN=70;DP=331;FS=0.000;Inbre
339	chrY	2996541	.	C	T	1085.74	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=-9.100e-
340	chrY	2997827	.	T	C	1071.51	PASS	AC=6;AF=0.091;AN=66;DP=389;FS=0.000;Inbre
341	chrY	2998670	.	A	G	148.45	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.920e+
342	chrY	3003675	.	T	C	36.04	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
343	chrY	3004917	.	A	G	92.75	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.46;Cli
344	chrY	3007422	.	A	C	48.18	PASS	AC=2;AF=0.045;AN=44;DP=250;FS=0.000;Inbre
345	chrY	3007854	.	G	A	123.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.811;Cl
346	chrY	3008588	.	C	G	81.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.01;Cli
347	chrY	3009637	.	G	A	244.52	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.883e+
348	chrY	3009913	.	C	T	343.76	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-1.201e+
349	chrY	3010175	.	C	G	37.29	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
350	chrY	3012053	.	A	G	243.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.967;Cl
351	chrY	3012107	.	T	C	2448.26	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.303e
352	chrY	3013550	.	G	A	1762.26	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.071;C
353	chrY	3014131	.	G	A	1155.85	PASS	AC=6;AF=0.091;AN=66;DP=378;FS=0.000;Inbre
354	chrY	3014401	.	G	A	761.66	PASS	AC=16;AF=0.421;AN=38;DP=199;FS=0.000;Inbr
355	chrY	3015855	.	G	T	154.87	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=2.51;Cli
356	chrY	3018801	.	T	C	919.60	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.734e+
357	chrY	3019744	.	A	C	482.20	PASS	AC=6;AF=0.097;AN=62;DP=250;FS=0.000;Inbre
358	chrY	3022593	.	G	A	7730.90	PASS	AC=48;AF=0.727;AN=66;DP=417;FS=0.000;Inbr
359	chrY	3024346	.	G	C	133.53	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.22;Cli
360	chrY	3027636	.	G	A	6288.18	PASS	AC=62;AF=1.00;AN=62;DP=223;FS=0.000;Inbre
361	chrY	3028535	.	C	T	53.82	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.84;Cli
362	chrY	3028697	.	G	A	472.63	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=0.976;Cl
363	chrY	3028916	.	A	C	3236.35	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=-5.900e
364	chrY	3029097	.	C	T	37.52	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=1.53;Cli
365	chrY	3029098	.	A	G	37.34	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.953e+
366	chrY	3029131	.	C	T	70.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.83;Cli
367	chrY	3029156	.	G	A	89.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.36;Cli
368	chrY	3029494	.	C	T	439.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=0.933;Cl
369	chrY	3030080	.	T	C	10534.03	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=
370	chrY	3030097	.	C	T	854.55	PASS	AC=6;AF=0.086;AN=70;DP=491;FS=0.000;Inbre
371	chrY	3031075	.	A	G	87.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-4.650e-
372	chrY	3031166	.	A	G	244.03	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=0.731;Cl
373	chrY	3031203	.	C	T	221.91	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.03;Cli
374	chrY	3031684	.	G	A	57.01	PASS	AC=2;AF=0.033;AN=60;DP=172;FS=0.000;Inbre
375	chrY	3035200	.	A	G	175.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.493;Cl
376	chrY	3035243	.	A	G	515.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.550e-
377	chrY	3035320	.	C	T	1698.66	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-5.330e
378	chrY	3035361	.	T	C	181.08	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
379	chrY	3036366	.	T	A	1505.12	PASS	AC=22;AF=1.00;AN=22;DP=69;FS=0.000;Inbre
380	chrY	3037566	.	C	T	41.44	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.08;Cli

381	chrY	3037778	.	G	A	79.69	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.26;Cli
382	chrY	3037897	.	G	A	303.87	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=0.672;Cl
383	chrY	3039370	.	A	G	100.64	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.425;Cl
384	chrY	3039675	.	T	C	207.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.08;Cli
385	chrY	3039772	.	C	T	75.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.849;Cl
386	chrY	3040016	.	G	T	243.02	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=0.156;Cl
387	chrY	3040098	.	A	C	415.87	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-3.360e-
388	chrY	3040546	.	T	A	1102.50	PASS	AC=6;AF=0.086;AN=70;DP=476;FS=0.000;Inbre
389	chrY	3041018	.	G	C	711.26	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.596e+
390	chrY	3041026	.	T	C	658.52	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.620e+
391	chrY	3041209	.	C	T	714.18	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.42;Cl
392	chrY	3041276	.	C	G	151.93	PASS	AC=4;AF=0.061;AN=66;DP=213;FS=0.000;Inbre
393	chrY	3041551	.	G	A	5353.12	PASS	AC=48;AF=1.00;AN=48;DP=201;FS=0.000;Inbre
394	chrY	3044007	.	A	G	12828	PASS	AC=68;AF=1.00;AN=68;DP=426;FS=0.000;Inbre
395	chrY	3044275	.	T	A	54.58	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQRankSum=
396	chrY	3045026	.	T	G	62.40	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQRankSum=
397	chrY	3046188	.	T	C	73.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.59;Cli
398	chrY	3046249	.	T	C	323.49	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.179e
399	chrY	3046930	.	G	A	7441.07	PASS	AC=56;AF=1.00;AN=56;DP=277;FS=0.000;Inbre
400	chrY	3047687	.	G	C	117.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.488e+
401	chrY	3047856	.	T	A	95.08	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.869;Cl
402	chrY	3051192	.	T	C	39.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.736;Cl
403	chrY	3052823	.	C	G	37.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e-
404	chrY	3052833	.	G	A	37.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
405	chrY	3053441	.	A	G	477.44	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.537e+
406	chrY	3054906	.	G	T	52.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
407	chrY	3055413	.	A	C	3350.51	PASS	AC=38;AF=0.576;AN=66;DP=328;FS=0.000;Inbr
408	chrY	3058481	.	C	T	234.41	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.00;Cli
409	chrY	3059524	.	A	G	182.44	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-1.021e+
410	chrY	3060620	.	T	C	162.53	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.396e+
411	chrY	3060706	.	G	A	50.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.727;Cl
412	chrY	3061694	.	C	G	804.63	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-3.550e-
413	chrY	3062015	.	T	A	57.43	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-3.650e-
414	chrY	3064734	.	G	A	543.43	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.86;Cli
415	chrY	3064831	.	A	G	1649.85	PASS	AC=23;AF=0.500;AN=46;BaseQRankSum=-1.466e
416	chrY	3065950	.	T	C	2090.01	PASS	AC=38;AF=0.679;AN=56;DP=227;FS=0.000;Inbr
417	chrY	3066317	.	T	C	32.58	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum=
418	chrY	3066506	.	T	C	220.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.15;Cli
419	chrY	3066664	.	G	A	917.73	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=0.888;Cl
420	chrY	3068099	.	T	C	520.76	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=-1.231e+
421	chrY	3068227	.	A	G	123.03	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.392;Cl
422	chrY	3068820	.	T	C	563.81	PASS	AC=6;AF=0.086;AN=70;DP=455;FS=0.000;Inbre
423	chrY	3069109	.	G	A	2965.95	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.983;C
424	chrY	3072315	.	T	A	274.63	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=0.653;Cl
425	chrY	3072352	.	G	A	37.70	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
426	chrY	3072412	.	G	C	35.37	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.380e+
427	chrY	3072420	.	T	C	41.73	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.026e+
428	chrY	3072957	.	G	A	441.56	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
429	chrY	3075109	.	C	G	1361.76	PASS	AC=6;AF=0.086;AN=70;DP=506;FS=0.000;Inbre
430	chrY	3076132	.	T	C	816.38	PASS	AC=22;AF=1.00;AN=22;DP=48;FS=0.000;Inbre
431	chrY	3077253	.	T	C	194.97	PASS	AC=2;AF=0.029;AN=70;DP=448;FS=0.000;Inbre
432	chrY	3081263	.	C	G	34.36	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
433	chrY	3081286	.	T	C	203.92	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.422e+
434	chrY	3081568	.	T	G	31.85	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
435	chrY	3081622	.	A	T	95.77	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=1.82;Cli
436	chrY	3081645	.	C	A	52.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.19;Cli
437	chrY	3083069	.	A	C	127.15	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=-3.059e+
438	chrY	3083158	.	G	A	378.41	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=-4.250e-
439	chrY	3083277	.	A	G	90.85	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=-4.290e-
440	chrY	3083954	.	C	T	75.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
441	chrY	3084051	.	A	G	597.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.313e+
442	chrY	3086364	.	G	A	102.16	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.380e+
443	chrY	3086728	.	G	A	127.05	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.86;Cli
444	chrY	3087153	.	A	T	1068.85	PASS	AC=6;AF=0.231;AN=26;DP=157;FS=0.000;Inbre
445	chrY	3087852	.	G	A	950.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.064e+
446	chrY	3087854	.	C	A	205.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.509;Cl
447	chrY	3087892	.	T	G	56.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
448	chrY	3087945	.	A	T	783.81	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-5.720e-
449	chrY	3087953	.	C	T	911.91	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.248;Cl
450	chrY	3088019	.	C	T	2853.92	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-3.580e
451	chrY	3088180	.	G	T	135.62	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.42;Cli
452	chrY	3088324	.	G	A	4792.53	PASS	AC=40;AF=0.625;AN=64;BaseQRankSum=1.95;Cl
453	chrY	3088328	.	A	C	69.45	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.355;Cl
454	chrY	3090217	.	A	G	674.41	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=0.462;Cl
455	chrY	3090313	.	C	T	139.91	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=2.35;Cli
456	chrY	3096657	.	C	T	239.97	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=1.00;Cli

457	chrY	3096996	.	C	T	223.40	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=2.42;Cli
458	chrY	3097907	.	C	T	1133.76	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=1.20;Cli
459	chrY	3101776	.	C	A	1935.67	PASS	AC=22;AF=0.647;AN=34;DP=169;FS=0.000;Inbr
460	chrY	3102808	.	A	G	384.54	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQRankSum=
461	chrY	3103115	.	T	C	2321.45	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=1.24;Cl
462	chrY	3103153	.	G	T	1563.34	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
463	chrY	3103156	.	T	C	1564.11	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
464	chrY	3103284	.	T	C	60.96	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
465	chrY	3103536	.	A	G	1015.05	PASS	AC=6;AF=0.086;AN=70;DP=461;FS=0.000;Inbre
466	chrY	3105334	.	C	T	376.53	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.593;Cl
467	chrY	3106175	.	T	C	13627.08	PASS	AC=46;AF=0.657;AN=70;DP=673;FS=0.0
468	chrY	3106645	.	C	T	265.01	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
469	chrY	3107155	.	A	T	52.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
470	chrY	3107172	.	G	T	219.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.600;Cl
471	chrY	3107332	.	A	C	86.31	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
472	chrY	3107628	.	C	T	240.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.373;Cl
473	chrY	3110540	.	G	A	4728.32	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.665;C
474	chrY	3110654	.	T	C	2148.46	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
475	chrY	3112471	.	A	T	2197.54	PASS	AC=12;AF=0.188;AN=64;DP=241;FS=0.000;Inbr
476	chrY	3112602	.	G	C	279.32	PASS	AC=6;AF=0.250;AN=24;DP=76;FS=0.000;Inbree
477	chrY	3117632	.	G	C	216.54	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=-1.026e+
478	chrY	3118152	.	C	T	5661.33	PASS	AC=48;AF=1.00;AN=48;BaseQRankSum=1.54;Cli
479	chrY	3120176	.	T	G	1081.44	PASS	AC=6;AF=0.150;AN=40;DP=144;FS=0.000;Inbre
480	chrY	3123954	.	G	A	21826.97	PASS	AC=68;AF=1.00;AN=68;DP=492;FS=0.0
481	chrY	3123955	.	T	G	21826.97	PASS	AC=68;AF=1.00;AN=68;DP=492;FS=0.0
482	chrY	3126754	.	T	C	40.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
483	chrY	3126786	.	A	G	539.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.733e+
484	chrY	3126862	.	A	C	257.03	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.223;Cl
485	chrY	3128883	.	G	C	113.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.432;Cl
486	chrY	3130529	.	C	T	202.56	PASS	AC=2;AF=0.029;AN=70;DP=399;FS=0.000;Inbre
487	chrY	3131201	.	T	G	46.34	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.736;Cl
488	chrY	3131202	.	G	A	46.42	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.360e-
489	chrY	3131532	.	C	T	145.53	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=0.736;Cl
490	chrY	3134793	.	G	C	167.83	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.49;Cli
491	chrY	3136593	.	G	T	1074.22	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=-1.131e+
492	chrY	3136688	.	C	T	859.25	PASS	AC=6;AF=0.086;AN=70;DP=295;FS=0.000;Inbre
493	chrY	3137173	.	T	C	491.71	PASS	AC=6;AF=0.091;AN=66;DP=247;FS=0.000;Inbre
494	chrY	3138559	.	T	G	209.80	PASS	AC=2;AF=0.100;AN=20;DP=136;FS=0.000;Inbre
495	chrY	3138808	.	C	A	103.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.510e-
496	chrY	3138819	.	G	A	160.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.271e+
497	chrY	3141361	.	G	A	293.84	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=0.862;Cl
498	chrY	3141715	.	T	C	371.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.761;Cl
499	chrY	3142057	.	T	C	305.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.296;Cl
500	chrY	3144004	.	G	C	189.48	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-2.100e-
501	chrY	3145232	.	C	T	182.38	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=0.580;Cl
502	chrY	3145875	.	A	C	39.53	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-1.231e+
503	chrY	3145878	.	T	C	42.44	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-1.026e+
504	chrY	3146745	.	T	C	64.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.873;Cl
505	chrY	3146867	.	A	C	326.62	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-7.710e-
506	chrY	3150048	.	T	G	4522.22	PASS	AC=34;AF=0.531;AN=64;DP=350;FS=0.000;Inbr
507	chrY	3153728	.	T	C	5808.32	PASS	AC=54;AF=1.00;AN=54;DP=214;FS=0.000;Inbre
508	chrY	3153909	.	T	G	384.11	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=0.533;Cl
509	chrY	3154138	.	T	G	164.07	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQRankSum=
510	chrY	3156807	.	G	A	8277.77	PASS	AC=50;AF=0.735;AN=68;DP=451;FS=0.000;Inbr
511	chrY	3157728	.	G	A	62.83	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.456;Cl
512	chrY	3164119	.	G	T	114.77	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=1.03;Cli
513	chrY	3166904	.	T	C	260.54	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-5.700e-
514	chrY	3166913	.	G	A	260.66	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.390e-
515	chrY	3167079	.	C	A	265.89	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=1.53;Cli
516	chrY	3168537	.	C	A	887.86	PASS	AC=6;AF=0.086;AN=70;DP=419;FS=0.000;Inbre
517	chrY	3170806	.	A	G	74.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
518	chrY	3171120	.	T	A	106.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.938;Cl
519	chrY	3171196	.	C	T	261.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.026e+
520	chrY	3172307	.	C	T	338.69	PASS	AC=2;AF=0.043;AN=46;DP=148;FS=0.000;Inbre
521	chrY	3172416	.	A	G	65.98	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQRankSum=
522	chrY	3172631	.	G	A	121.83	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.05;Cli
523	chrY	3172792	.	A	T	43.81	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
524	chrY	3175149	.	G	A	137.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.21;Cli
525	chrY	3176879	.	C	G	1918.60	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=0.265;C
526	chrY	3176973	.	G	A	863.42	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=0.694;Cl
527	chrY	3177027	.	C	T	388.46	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=0.00;Cl
528	chrY	3177113	.	C	G	157.56	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
529	chrY	3177692	.	A	G	55.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.76;Cli
530	chrY	3178102	.	T	A	87.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.490e+
531	chrY	3178526	.	G	C	957.24	PASS	AC=2;AF=0.029;AN=70;DP=433;FS=0.000;Inbre
532	chrY	3179708	.	C	A	1001.56	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=-9.060e

533	chrY	3179754	.	T	G	100.81	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.919;C
534	chrY	3181270	.	C	G	1531.23	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.047;C
535	chrY	3181632	.	C	T	542.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.348;C
536	chrY	3182173	.	C	G	4673.12	PASS	AC=44;AF=0.647;AN=68;DP=302;FS=0.000;Inbr
537	chrY	3183649	.	C	A	239.80	PASS	AC=2;AF=0.029;AN=70;DP=354;FS=0.000;Inbre
538	chrY	3185111	.	C	G	829.74	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.173;C
539	chrY	3185675	.	C	A	178.08	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
540	chrY	3185978	.	G	A	164.39	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-2.541e+
541	chrY	3185985	.	A	T	602.67	PASS	AC=2;AF=0.038;AN=52;DP=233;FS=0.000;Inbre
542	chrY	3190811	.	T	C	342.37	PASS	AC=6;AF=0.086;AN=70;DP=299;FS=0.000;Inbre
543	chrY	3191215	.	T	C	5699.17	PASS	AC=44;AF=0.647;AN=68;DP=367;FS=0.000;Inbr
544	chrY	3192629	.	A	G	633.62	PASS	AC=6;AF=0.086;AN=70;DP=422;FS=0.000;Inbre
545	chrY	3192659	.	T	C	11494.58	PASS	AC=58;AF=0.829;AN=70;BaseQRankSum
546	chrY	3193223	.	T	A	173.30	PASS	AC=2;AF=0.029;AN=70;DP=282;FS=0.000;Inbre
547	chrY	3193883	.	T	C	231	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.117e+
548	chrY	3193898	.	A	G	198.48	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-2.758e+
549	chrY	3194078	.	A	G	5583.42	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-3.360e
550	chrY	3194083	.	G	A	5486.16	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=0.714;C
551	chrY	3194113	.	T	G	1909.03	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.289;C
552	chrY	3194136	.	C	G	1425.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-3.240e
553	chrY	3194437	.	C	T	111.12	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=0.269;C
554	chrY	3194779	.	C	T	33.78	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
555	chrY	3195016	.	G	A	60.83	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
556	chrY	3195276	.	T	C	677.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
557	chrY	3195371	.	T	C	6837.84	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-1.097e
558	chrY	3195531	.	A	G	188.70	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
559	chrY	3195624	.	T	G	110.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.14;Cli
560	chrY	3195646	.	T	C	109.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.688e+
561	chrY	3195921	.	G	A	68.84	PASS	AC=2;AF=0.033;AN=60;DP=229;FS=0.000;Inbre
562	chrY	3196326	.	A	G	10207.98	PASS	AC=40;AF=0.571;AN=70;DP=508;FS=0.
563	chrY	3200161	.	A	C	213.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.29;Cli
564	chrY	3201251	.	G	C	159.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.240e
565	chrY	3203304	.	G	A	92.08	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-1.171e+
566	chrY	3208566	.	C	T	1353.18	PASS	AC=6;AF=0.333;AN=18;DP=187;FS=0.000;MLEAC
567	chrY	3214736	.	A	C	1335.55	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=0.752;C
568	chrY	3214906	.	G	T	909.06	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=-3.130e-
569	chrY	3215068	.	T	A,*	1439.44	PASS	AC=13,1;AF=0.210,0.016;AN=62;BaseQRankSum
570	chrY	3218805	.	A	G	1276.21	PASS	AC=12;AF=0.667;AN=18;BaseQRankSum=0.528;C
571	chrY	3222095	.	C	A	5544.71	PASS	AC=45;AF=0.682;AN=66;BaseQRankSum=0.290;C
572	chrY	3223114	.	T	C	337.27	PASS	AC=2;AF=0.029;AN=70;DP=622;FS=0.000;Inbre
573	chrY	3223365	.	T	C	72.27	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.40;Cli
574	chrY	3224603	.	A	T	952.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.640e-
575	chrY	3226995	.	C	T	53.87	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-3.580e-
576	chrY	3229175	.	G	A	56.31	PASS	AC=1;AF=0.015;AN=66;DP=180;FS=0.000;Inbre
577	chrY	3229180	.	G	A	47.77	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.270e-
578	chrY	3229184	.	G	A	44.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.370e-
579	chrY	3230193	.	T	C	350.71	PASS	AC=2;AF=0.029;AN=68;DP=217;FS=0.000;Inbre
580	chrY	3237522	.	G	A	732.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=1.44;Cli
581	chrY	3238590	.	A	C	321.48	PASS	AC=6;AF=0.088;AN=68;DP=280;FS=0.000;Inbre
582	chrY	3239049	.	G	A	1770.24	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=0.307;C
583	chrY	3239356	.	G	T	34.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e-
584	chrY	3240431	.	C	A	938.09	PASS	AC=6;AF=0.143;AN=42;DP=151;FS=0.000;Inbre
585	chrY	3240513	.	A	G	185.49	PASS	AC=2;AF=0.091;AN=22;DP=138;FS=0.000;Inbre
586	chrY	3241219	.	C	T	52.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.572;C
587	chrY	3241230	.	G	C	188.54	PASS	AC=2;AF=0.029;AN=70;DP=374;FS=0.000;Inbre
588	chrY	3242116	.	A	G	2774.93	PASS	AC=20;AF=1.00;AN=20;DP=123;FS=0.000;Inbre
589	chrY	3242444	.	G	C	137.04	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.727;C
590	chrY	3242531	.	A	G	170.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.731;C
591	chrY	3243366	.	A	G	44.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
592	chrY	3244438	.	C	G	36.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e-
593	chrY	3245641	.	C	G	248.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-6.670e-
594	chrY	3245714	.	C	A	428.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-9.290e-
595	chrY	3245721	.	C	T	434.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.382;C
596	chrY	3246170	.	G	A	2217.82	PASS	AC=24;AF=0.667;AN=36;DP=180;FS=0.000;Inbr
597	chrY	3246483	.	A	T	44.10	PASS	AC=1;AF=0.016;AN=64;DP=243;FS=0.000;Inbre
598	chrY	3246499	.	C	T	43.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.804;C
599	chrY	3247711	.	T	C	112.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.452e+
600	chrY	3248399	.	C	A	257.87	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.280e+
601	chrY	3248400	.	T	C	257.83	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-3.088e+
602	chrY	3248513	.	T	C	56.80	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
603	chrY	3252166	.	G	T	50.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.07;Cli
604	chrY	3252488	.	G	A	627.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.398;C
605	chrY	3252731	.	G	A	141.50	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=2.10;Cli
606	chrY	3252831	.	G	A	140.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.21;Cli
607	chrY	3252861	.	G	A	153.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.466e+
608	chrY	3252927	.	C	T	221.45	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.720e-

609	chrY	3253065	.	T	C	75.05	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
610	chrY	3253095	.	C	G	213.25	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.179e+
611	chrY	3253170	.	C	T	155.74	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=0.720;Cl
612	chrY	3253180	.	T	C	64.88	PASS	AC=2;AF=0.091;AN=22;DP=57;FS=0.000;Inbre
613	chrY	3253810	.	G	A	67.12	PASS	AC=2;AF=0.091;AN=22;DP=101;FS=0.000;Inbre
614	chrY	3253843	.	A	T	677.62	PASS	AC=6;AF=0.158;AN=38;DP=93;FS=0.000;Inbre
615	chrY	3253848	.	T	A	246.48	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=0.731;Cl
616	chrY	3254237	.	A	G	5097.31	PASS	AC=44;AF=0.647;AN=68;DP=374;FS=0.000;Inbr
617	chrY	3256326	.	G	A	732.18	PASS	AC=20;AF=0.500;AN=40;DP=177;FS=0.000;Inbr
618	chrY	3258177	.	A	C	116.14	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=0.433;Cl
619	chrY	3258676	.	A	G	264.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.350;Cl
620	chrY	3259610	.	T	C	41.08	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.026e+
621	chrY	3259619	.	T	C	34.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e+
622	chrY	3261906	.	C	T	949.05	PASS	AC=6;AF=0.086;AN=70;DP=424;FS=0.000;Inbre
623	chrY	3263947	.	T	C	317.02	PASS	AC=2;AF=0.111;AN=18;DP=162;FS=0.000;MLEAC
624	chrY	3266087	.	C	T	12440.99	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=
625	chrY	3266992	.	G	A	102.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.660e-
626	chrY	3269225	.	G	C	1518.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.851;Cl
627	chrY	3270639	.	G	T	7948.58	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum=1.45;Cl
628	chrY	3271292	.	G	A	148.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.752;Cl
629	chrY	3271346	.	G	T	54.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
630	chrY	3271448	.	T	C	86.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
631	chrY	3274923	.	C	A	19335.97	PASS	AC=68;AF=1.00;AN=68;DP=637;FS=0.0
632	chrY	3276994	.	A	G	11564.30	PASS	AC=49;AF=0.721;AN=68;BaseQRankSum
633	chrY	3277949	.	T	C	1360.54	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=1.35;Cli
634	chrY	3278206	.	G	C	565.57	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.54;Cl
635	chrY	3278326	.	C	T	33.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
636	chrY	3279458	.	G	C	162.80	PASS	AC=4;AF=0.065;AN=62;DP=222;FS=0.000;Inbre
637	chrY	3279512	.	T	C	3205.15	PASS	AC=26;AF=1.00;AN=26;DP=132;FS=0.000;Inbre
638	chrY	3279636	.	T	A	724.17	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=-1.107e+
639	chrY	3279734	.	T	C	175.01	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-2.363e+
640	chrY	3280099	.	A	G	232.87	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=-1.304e+
641	chrY	3283471	.	G	A	225.64	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
642	chrY	3284303	.	C	G	11027.74	PASS	AC=50;AF=0.735;AN=68;DP=515;FS=0.
643	chrY	3284375	.	A	T	7155.91	PASS	AC=52;AF=0.743;AN=70;DP=374;FS=0.000;Inbr
644	chrY	3285671	.	G	A	1176.62	PASS	AC=6;AF=0.094;AN=64;DP=197;FS=0.000;Inbre
645	chrY	3287098	.	C	T	188.85	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-4.520e-
646	chrY	3289275	.	A	G	1173.07	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.724e+
647	chrY	3289276	.	C	T	986.96	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.910;Cl
648	chrY	3289390	.	C	G	1046.30	PASS	AC=24;AF=0.444;AN=54;BaseQRankSum=0.198;C
649	chrY	3291496	.	G	A	836.42	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=1.40;Cli
650	chrY	3292652	.	T	A	108.76	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-4.210e-
651	chrY	3292871	.	C	T	809.77	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=0.283;C
652	chrY	3293024	.	G	A	485.27	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=2.05;Cli
653	chrY	3293192	.	G	A	235.09	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.07;Cli
654	chrY	3293273	.	G	T	1226.56	PASS	AC=23;AF=0.479;AN=48;BaseQRankSum=0.736;C
655	chrY	3295904	.	T	A	524.04	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.50;Cli
656	chrY	3297672	.	A	T	145.94	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-2.230e-
657	chrY	3301831	.	C	T	40.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.360e-
658	chrY	3304261	.	T	C	686	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=1.94;Cli
659	chrY	3304713	.	T	G	169.40	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.700e-
660	chrY	3306294	.	C	G	304	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=0.751;Cl
661	chrY	3307549	.	A	G	188.92	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=-1.107e+
662	chrY	3308883	.	G	C	581.96	PASS	AC=6;AF=0.091;AN=66;DP=425;FS=0.000;Inbre
663	chrY	3312122	.	A	G	488.05	my_snp_filter	AC=6;AF=0.333;AN=18;DP=123;FS=0.0
664	chrY	3312535	.	A	T	72.60	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
665	chrY	3312536	.	C	T	151.97	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
666	chrY	3312565	.	C	T	88.69	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
667	chrY	3312796	.	C	T	1021.46	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=2.83;Cli
668	chrY	3312813	.	C	G	1232.78	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.386;Cl
669	chrY	3312933	.	C	T	89.52	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.239;Cl
670	chrY	3313079	.	T	G	275.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.662e+
671	chrY	3315365	.	T	A	36.34	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
672	chrY	3316011	.	G	T	38.09	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
673	chrY	3317045	.	G	A	129.27	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
674	chrY	3317052	.	A	G	134.97	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
675	chrY	3317065	.	C	A	156.79	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
676	chrY	3317069	.	T	C	156.65	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
677	chrY	3317073	.	C	T	59.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
678	chrY	3317084	.	C	A	59.97	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
679	chrY	3317882	.	A	G	7624.17	PASS	AC=40;AF=0.571;AN=70;DP=479;FS=0.000;Inbr
680	chrY	3319321	.	T	G	41.28	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
681	chrY	3319685	.	A	G	1068.18	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-1.044e+
682	chrY	3320972	.	A	G	837.61	PASS	AC=8;AF=0.444;AN=18;DP=118;FS=0.000;MLEAC
683	chrY	3320995	.	T	A	358.03	PASS	AC=2;AF=0.111;AN=18;DP=120;FS=0.000;MLEAC
684	chrY	3327625	.	C	T	654.91	PASS	AC=6;AF=0.086;AN=70;DP=271;FS=0.000;Inbre

685	chrY	3331464	.	T	A	280.78	PASS	AC=2;AF=0.059;AN=34;DP=107;FS=0.000;Inbre
686	chrY	3335911	.	G	C	65.50	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=1.29;Cli
687	chrY	3348468	.	T	G	454.01	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-1.444e+
688	chrY	3349125	.	C	A	623.90	PASS	AC=6;AF=0.300;AN=20;DP=120;FS=0.000;Inbre
689	chrY	3351812	.	G	A	4272.08	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=0.00;Cl
690	chrY	3351835	.	A	G	789.59	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.200e
691	chrY	3351864	.	G	A	146.61	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=1.03;Cli
692	chrY	3359049	.	C	T	104.41	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=2.90;Cli
693	chrY	3359057	.	C	A	135.44	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=2.60;Cli
694	chrY	3359297	.	G	A	299.42	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
695	chrY	3359420	.	C	G	5550.63	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.062;C
696	chrY	3359450	.	A	T	5811.90	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=1.08;Cl
697	chrY	3359578	.	G	C	282.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.11;Cli
698	chrY	3359651	.	C	G	263.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.170e-
699	chrY	3359675	.	A	G	413.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
700	chrY	3359703	.	C	T	339.76	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
701	chrY	3369006	.	T	C	6166.13	PASS	AC=47;AF=0.691;AN=68;BaseQRankSum=0.736;C
702	chrY	3369342	.	A	C	45.62	PASS	AC=2;AF=0.063;AN=32;DP=141;FS=0.000;Inbre
703	chrY	3370956	.	A	G	51.37	PASS	AC=2;AF=0.032;AN=62;DP=190;FS=0.000;Inbre
704	chrY	3371154	.	T	A	105.07	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=0.00;Cli
705	chrY	3371939	.	T	C	1295.33	PASS	AC=6;AF=0.088;AN=68;DP=564;FS=0.000;Inbre
706	chrY	3372611	.	T	G	1595.13	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=-2.001e+
707	chrY	3372628	.	T	C	1611.86	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=-1.971e+
708	chrY	3376114	.	A	T	1874.17	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=-3.230e
709	chrY	3376240	.	T	C	91.51	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQRankSum=
710	chrY	3377471	.	G	C	90.48	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
711	chrY	3377786	.	T	A	34.76	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
712	chrY	3377855	.	G	C	989.48	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.62;Cli
713	chrY	3379309	.	T	A	277.25	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.212;Cl
714	chrY	3383291	.	T	C	976.30	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-4.740e-
715	chrY	3384596	.	C	A	32.46	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.495e+
716	chrY	3384599	.	G	A	32.47	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.922;Cl
717	chrY	3385259	.	T	C	3683.14	PASS	AC=24;AF=1.00;AN=24;DP=150;FS=0.000;Inbre
718	chrY	3387363	.	A	T	38.69	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.296;Cl
719	chrY	3387546	.	T	A	262.89	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.65;Cli
720	chrY	3387981	.	C	T	98.54	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=1.67;Cli
721	chrY	3387992	.	C	T	99.92	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=1.27;Cli
722	chrY	3388103	.	A	T	240.23	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-8.500e-
723	chrY	3388418	.	A	G	796.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-5.780e-
724	chrY	3388652	.	G	A	2334.94	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.960e
725	chrY	3388757	.	A	C	2522.62	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-7.360e
726	chrY	3388884	.	T	C	41	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=1.42;Cli
727	chrY	3389980	.	C	T	8197.08	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=1.50;Cli
728	chrY	3390275	.	T	G	63.25	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
729	chrY	3390366	.	C	T	71.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.77;Cli
730	chrY	3394622	.	G	A	836.78	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=1.37;Cli
731	chrY	3395665	.	G	C	86.61	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQRankSum=
732	chrY	3396386	.	C	A	1519.26	PASS	AC=6;AF=0.086;AN=70;DP=690;FS=0.000;Inbre
733	chrY	3397017	.	T	G	13000.11	PASS	AC=70;AF=1.00;AN=70;BaseQRankSum=
734	chrY	3397528	.	A	G	621.56	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.735e+
735	chrY	3399501	.	C	T	1846.42	PASS	AC=32;AF=0.640;AN=50;DP=223;FS=0.000;Inbr
736	chrY	3400597	.	A	G	1231.04	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=0.00;Cli
737	chrY	3400655	.	A	C	1869.39	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=1.02;Cli
738	chrY	3400837	.	A	G	1195.46	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.922;C
739	chrY	3400869	.	A	C	768.98	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-5.890e
740	chrY	3400962	.	C	G	785.97	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
741	chrY	3400985	.	T	C	252.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.47;Cli
742	chrY	3401367	.	C	T	1047.14	PASS	AC=6;AF=0.107;AN=56;DP=178;FS=0.000;Inbre
743	chrY	3401800	.	T	C	55.83	PASS	AC=2;AF=0.029;AN=70;DP=304;FS=0.000;Inbre
744	chrY	3402559	.	A	T	153.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.480;Cl
745	chrY	3402868	.	G	A	56.90	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
746	chrY	3402899	.	C	T	72.31	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
747	chrY	3402937	.	A	G	162.39	PASS	AC=2;AF=0.032;AN=62;DP=240;FS=0.000;Inbre
748	chrY	3402948	.	C	T	610.63	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.887;Cl
749	chrY	3402951	.	G	T	612.48	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.037;Cl
750	chrY	3403002	.	C	T	302.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
751	chrY	3403262	.	A	C	282.27	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=2.22;Cli
752	chrY	3403397	.	T	C	38.99	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
753	chrY	3406444	.	A	G	143.53	PASS	AC=4;AF=0.065;AN=62;DP=215;FS=0.000;Inbre
754	chrY	3407304	.	C	G	243	PASS	AC=2;AF=0.030;AN=66;DP=202;FS=0.000;Inbre
755	chrY	3416449	.	A	G	70.40	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQRankSum=
756	chrY	3419864	.	T	C	101.29	PASS	AC=2;AF=0.029;AN=70;DP=412;FS=0.000;Inbre
757	chrY	3422189	.	A	G	1025.07	PASS	AC=6;AF=0.107;AN=56;DP=190;FS=0.000;Inbre
758	chrY	3423756	.	T	C	641.98	PASS	AC=6;AF=0.097;AN=62;DP=154;FS=0.000;Inbre
759	chrY	3423861	.	C	T	1257.33	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.000;Inbre
760	chrY	3426131	.	G	A	53.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=

761	chrY	3426238	.	C	T	82.03	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
762	chrY	3427960	.	C	T	1215.25	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=1.60;Cli
763	chrY	3430200	.	G	A	1355.80	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-1.580e-
764	chrY	3435055	.	C	T	514.68	PASS	AC=6;AF=0.088;AN=68;DP=449;FS=0.000;Inbre
765	chrY	3436252	.	G	T	552.06	PASS	AC=6;AF=0.200;AN=30;DP=115;FS=0.000;Inbre
766	chrY	3436318	.	T	A	1018.37	PASS	AC=8;AF=0.400;AN=20;DP=140;FS=0.000;Inbre
767	chrY	3436319	.	C	T	83.30	PASS	AC=2;AF=0.091;AN=22;DP=141;FS=0.000;Inbre
768	chrY	3436324	.	G	A	51.64	PASS	AC=2;AF=0.091;AN=22;DP=140;FS=0.000;Inbre
769	chrY	3436391	.	T	C	5657.85	PASS	AC=44;AF=0.786;AN=56;DP=225;FS=0.000;Inbr
770	chrY	3436397	.	C	T	7151.26	PASS	AC=50;AF=0.893;AN=56;DP=236;FS=0.000;Inb
771	chrY	3436403	.	T	C	1789.73	PASS	AC=6;AF=0.094;AN=64;DP=248;FS=0.000;Inbre
772	chrY	3436409	.	T	G	1825	PASS	AC=6;AF=0.094;AN=64;DP=277;FS=0.000;Inbre
773	chrY	3436413	.	T	C	1690.68	PASS	AC=6;AF=0.091;AN=66;DP=299;FS=0.000;Inbre
774	chrY	3440416	.	C	T	116.76	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.950;Cl
775	chrY	3442397	.	T	G	456.52	PASS	AC=6;AF=0.100;AN=60;DP=173;FS=0.000;Inbre
776	chrY	3443439	.	C	G	585.87	PASS	AC=4;AF=0.057;AN=70;DP=334;FS=0.000;Inbre
777	chrY	3443453	.	T	A	654.63	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.510e-
778	chrY	3443607	.	A	G	57.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
779	chrY	3443946	.	T	C	39.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
780	chrY	3443951	.	T	C	42.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
781	chrY	3444838	.	G	A	593.45	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.32;Cli
782	chrY	3447245	.	G	T	2442.71	PASS	AC=12;AF=0.182;AN=66;DP=378;FS=0.000;Inbr
783	chrY	3448944	.	A	T	155.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.00;Cli
784	chrY	3448993	.	G	A	777.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.22;Cli
785	chrY	3449497	.	C	T	301.02	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=2.00;Cli
786	chrY	3449579	.	G	A	125.67	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQRankSum=
787	chrY	3449886	.	T	A	799.28	PASS	AC=6;AF=0.086;AN=70;DP=254;FS=0.000;Inbre
788	chrY	3452051	.	G	A	1097.64	PASS	AC=6;AF=0.273;AN=22;DP=159;FS=0.000;Inbre
789	chrY	3453461	.	A	G	39.35	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
790	chrY	3456103	.	G	A	228.43	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.882;Cl
791	chrY	3456391	.	T	C	132.82	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.00;Cl
792	chrY	3456606	.	A	G	1048.89	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.289;C
793	chrY	3456712	.	A	G	420.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.20;Cli
794	chrY	3456714	.	C	A	421.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.92;Cli
795	chrY	3456889	.	A	G	83.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.950;Cl
796	chrY	3456891	.	T	G	84.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.250;Cl
797	chrY	3458994	.	A	T	4017.86	PASS	AC=18;AF=1.00;AN=18;DP=160;FS=0.000;MLEAC
798	chrY	3462160	.	C	T	52.75	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
799	chrY	3464788	.	G	A	261.36	PASS	AC=4;AF=0.061;AN=66;DP=359;FS=0.000;Inbre
800	chrY	3475225	.	A	G	239.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.768e+
801	chrY	3475365	.	G	A	304.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.87;Cli
802	chrY	3475494	.	C	T	148.60	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.440e-
803	chrY	3476096	.	C	T	37.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.231e+
804	chrY	3476100	.	G	A	40.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.026e+
805	chrY	3477173	.	G	C	9484	PASS	AC=66;AF=1.00;AN=66;DP=329;FS=0.000;Inbre
806	chrY	3483850	.	C	T	273.03	PASS	AC=6;AF=0.086;AN=70;DP=191;FS=0.000;Inbre
807	chrY	3483889	.	A	G	72.77	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-3.820e-
808	chrY	3485566	.	C	T	355.25	PASS	AC=2;AF=0.029;AN=70;DP=623;FS=0.000;Inbre
809	chrY	3486861	.	T	A	532.30	PASS	AC=6;AF=0.088;AN=68;DP=408;FS=0.000;Inbre
810	chrY	3487032	.	C	T	8656.04	PASS	AC=58;AF=1.00;AN=58;DP=318;FS=0.000;Inbre
811	chrY	3489769	.	G	C	194.48	PASS	AC=4;AF=0.071;AN=56;DP=186;FS=0.000;Inbre
812	chrY	3495506	.	C	T	2025.55	PASS	AC=33;AF=0.569;AN=58;BaseQRankSum=-7.310e-
813	chrY	3496479	.	C	A	162.91	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
814	chrY	3502269	.	T	C	301.86	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
815	chrY	3502305	.	T	A	30.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.198;Cl
816	chrY	3507403	.	T	C	3412.01	PASS	AC=22;AF=1.00;AN=22;DP=139;FS=0.000;Inbre
817	chrY	3509153	.	T	C	45.07	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQRankSum=
818	chrY	3509217	.	A	T	589.11	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=-1.026e+
819	chrY	3509255	.	G	C	1863.29	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.353;C
820	chrY	3509300	.	G	A	4366.79	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-7.310e-
821	chrY	3509410	.	C	T	1204.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.001e+
822	chrY	3509520	.	T	C	105.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.053;Cl
823	chrY	3509664	.	A	G	57.24	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=-8.490e-
824	chrY	3510746	.	T	A	1433.68	PASS	AC=6;AF=0.086;AN=70;DP=467;FS=0.000;Inbre
825	chrY	3511444	.	C	T	1629.34	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
826	chrY	3511523	.	A	G	2867.37	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.529;C
827	chrY	3511733	.	C	T	2816.19	PASS	AC=33;AF=0.569;AN=58;BaseQRankSum=-7.310e-
828	chrY	3511785	.	G	A	109.27	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
829	chrY	3511986	.	T	C	42.36	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.00;Cli
830	chrY	3511987	.	G	A	40.43	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-7.200e-
831	chrY	3512515	.	G	A	3973.86	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-2.003e-
832	chrY	3515500	.	G	A	138.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.589e+
833	chrY	3515508	.	G	A	141.93	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.380e+
834	chrY	3515512	.	C	T	144.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.380e+
835	chrY	3515526	.	A	G	153.74	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.380e+
836	chrY	3515528	.	G	A	153.77	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.380e+

837	chrY	3517518	.	T	G	215.40	PASS	AC=2;AF=0.029;AN=70;DP=764;FS=0.000;Inbre
838	chrY	3519590	.	C	T	41.04	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
839	chrY	3522891	.	T	C	45.57	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-3.610e-
840	chrY	3523642	.	A	G	240.47	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.400;Cl
841	chrY	3524746	.	A	G	840.95	PASS	AC=6;AF=0.086;AN=70;DP=317;FS=0.000;Inbre
842	chrY	3528560	.	T	C	5596.44	PASS	AC=50;AF=0.735;AN=68;DP=325;FS=0.000;Inbr
843	chrY	3530927	.	G	A	386.56	PASS	AC=2;AF=0.032;AN=62;DP=229;FS=0.000;Inbre
844	chrY	3541196	.	C	T	843.58	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.528;Cl
845	chrY	3541462	.	T	C	87.62	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
846	chrY	3543839	.	C	T	646.18	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.37;Cli
847	chrY	3543923	.	C	G	878.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-3.550e-
848	chrY	3544218	.	C	G	1020.26	PASS	AC=6;AF=0.088;AN=68;DP=399;FS=0.000;Inbre
849	chrY	3544322	.	A	G	12214.97	PASS	AC=70;AF=1.00;AN=70;DP=419;FS=0.0
850	chrY	3546060	.	T	C	55.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
851	chrY	3546329	.	C	T	580.47	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=1.66;Cli
852	chrY	3547060	.	C	A	206.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.04;Cli
853	chrY	3547140	.	T	A	261.03	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=1.82;Cli
854	chrY	3549820	.	C	T	127.79	PASS	AC=4;AF=0.071;AN=56;DP=239;FS=0.000;Inbre
855	chrY	3554057	.	C	A	149.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-3.610e-
856	chrY	3555139	.	C	T	126.37	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=1.63;Cli
857	chrY	3555279	.	G	A	436.63	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=1.18;Cli
858	chrY	3555449	.	A	T	141.35	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
859	chrY	3557770	.	G	A	36	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.38;Cli
860	chrY	3557780	.	A	G	35.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.720;Cl
861	chrY	3558263	.	G	A	64.79	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.742;Cl
862	chrY	3558271	.	G	A	58.70	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.592;Cl
863	chrY	3558272	.	T	A	58.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.254;Cl
864	chrY	3558273	.	T	A	57.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-8.500e-
865	chrY	3558275	.	T	A	58.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.620e+
866	chrY	3558403	.	C	T	267.58	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.15;Cli
867	chrY	3558474	.	C	T	49.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
868	chrY	3558537	.	C	A	142.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.27;Cli
869	chrY	3558731	.	C	T	91.93	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
870	chrY	3559501	.	C	A	113.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
871	chrY	3560926	.	G	A	33.63	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
872	chrY	3560973	.	T	G	742.57	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.406;Cl
873	chrY	3560975	.	T	C	744.89	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.00;Cli
874	chrY	3562015	.	C	G	583.53	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=-5.730e-
875	chrY	3562444	.	T	G	1261.21	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.42;Cli
876	chrY	3562978	.	C	T	1859.63	PASS	AC=14;AF=0.212;AN=66;DP=201;FS=0.000;Inbr
877	chrY	3563016	.	C	T	1497.99	PASS	AC=6;AF=0.094;AN=64;DP=187;FS=0.000;Inbre
878	chrY	3563017	.	A	G	1498	PASS	AC=6;AF=0.094;AN=64;DP=186;FS=0.000;Inbre
879	chrY	3563992	.	A	G	6051.13	PASS	AC=44;AF=1.00;AN=44;DP=237;FS=0.000;Inbre
880	chrY	3564720	.	G	C	1108.89	PASS	AC=6;AF=0.231;AN=26;DP=141;FS=0.000;Inbre
881	chrY	3567440	.	G	T	33.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
882	chrY	3568313	.	G	A	413.29	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=0.583;Cl
883	chrY	3568761	.	A	G	7689.06	PASS	AC=52;AF=1.00;AN=52;DP=262;FS=0.000;Inbre
884	chrY	3570900	.	G	A	87.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.053;Cl
885	chrY	3570934	.	A	T	258.44	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=1.99;Cli
886	chrY	3571089	.	C	A	171.35	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=-7.000e-
887	chrY	3571826	.	C	A	521.11	PASS	AC=9;AF=0.900;AN=10;BaseQRankSum=0.736;Cl
888	chrY	3571940	.	C	T	116.79	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=0.00;Cli
889	chrY	3572410	.	T	G	271.43	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.500e-
890	chrY	3572452	.	T	C	112.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-9.220e-
891	chrY	3572543	.	T	G	556.18	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.420e-
892	chrY	3572567	.	A	G	95.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.19;Cli
893	chrY	3572890	.	T	C	31.87	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.495e+
894	chrY	3572897	.	C	A	31.85	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.495e+
895	chrY	3572950	.	A	G	41.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.890e-
896	chrY	3573209	.	C	T	398.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.34;Cli
897	chrY	3573338	.	G	A	103.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.43;Cli
898	chrY	3573351	.	G	A	32.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.38;Cli
899	chrY	3574303	.	C	T	33.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
900	chrY	3574800	.	C	T	80.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=3.20;Cli
901	chrY	3577784	.	T	G	73.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.18;Cli
902	chrY	3577835	.	T	C	418.34	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-4.100e-
903	chrY	3577936	.	A	C	974.01	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=0.00;Cl
904	chrY	3580080	.	A	G	80.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
905	chrY	3580129	.	A	C	51.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.930e-
906	chrY	3580421	.	G	A	79.27	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
907	chrY	3582771	.	C	G	196.19	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
908	chrY	3582829	.	C	T	167.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.930;Cl
909	chrY	3584768	.	T	C	1215.78	PASS	AC=6;AF=0.214;AN=28;DP=136;FS=0.000;Inbre
910	chrY	3586023	.	C	T	6223.33	PASS	AC=46;AF=0.719;AN=64;DP=391;FS=0.000;Inbr
911	chrY	3586552	.	C	T	840.66	PASS	AC=6;AF=0.086;AN=70;DP=284;FS=0.000;Inbre
912	chrY	3589222	.	G	C	300.19	PASS	AC=2;AF=0.029;AN=70;DP=606;FS=0.000;Inbre

913	chrY	3599201	.	C	T	263.85	PASS	AC=2;AF=0.029;AN=70;DP=446;FS=0.000;Inbre
914	chrY	3600599	.	C	A	1057.34	PASS	AC=6;AF=0.086;AN=70;DP=454;FS=0.000;Inbre
915	chrY	3601987	.	T	C	4597.66	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum=-9.920e
916	chrY	3603528	.	C	T	249.99	PASS	AC=4;AF=0.250;AN=16;DP=89;FS=0.000;MLEAC=
917	chrY	3606920	.	T	C	485.30	PASS	AC=6;AF=0.094;AN=64;DP=197;FS=0.000;Inbre
918	chrY	3607350	.	A	T	33.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.217;Cl
919	chrY	3607671	.	T	C	1159.65	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.326;Cl
920	chrY	3607929	.	C	A	242.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.09;Cli
921	chrY	3607966	.	A	G	283.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.380e-
922	chrY	3607971	.	T	C	263.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.770e-
923	chrY	3609328	.	A	G	318.30	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-2.480e+
924	chrY	3609342	.	T	A	273.23	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.650;Cl
925	chrY	3609639	.	G	T	41.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
926	chrY	3611316	.	G	A	259.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.911;Cl
927	chrY	3611633	.	A	C	79.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.488e+
928	chrY	3612442	.	G	A	639.77	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=1.42;Cli
929	chrY	3614628	.	G	A	99.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.417;Cl
930	chrY	3615877	.	A	G	1202.27	PASS	AC=6;AF=0.086;AN=70;DP=464;FS=0.000;Inbre
931	chrY	3618146	.	C	A	388.43	PASS	AC=2;AF=0.029;AN=70;DP=450;FS=0.000;Inbre
932	chrY	3619050	.	T	C	4577.20	PASS	AC=52;AF=1.00;AN=52;DP=234;FS=0.000;Inbre
933	chrY	3619422	.	T	C	302.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.070e-
934	chrY	3623298	.	C	T	360.12	PASS	AC=6;AF=0.088;AN=68;DP=233;FS=0.000;Inbre
935	chrY	3623766	.	A	T	386.78	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.158;Cl
936	chrY	3628666	.	C	T	496.09	PASS	AC=6;AF=0.188;AN=32;DP=88;FS=0.000;Inbre
937	chrY	3632066	.	C	A	3497.86	PASS	AC=18;AF=1.00;AN=18;DP=143;FS=0.000;MLEAC
938	chrY	3633398	.	G	T	937.40	PASS	AC=6;AF=0.214;AN=28;DP=153;FS=0.000;Inbre
939	chrY	3636170	.	T	C	34.69	PASS	AC=2;AF=0.100;AN=20;DP=175;FS=0.000;Inbre
940	chrY	3636611	.	A	G	528.10	PASS	AC=2;AF=0.029;AN=70;DP=535;FS=0.000;Inbre
941	chrY	3638916	.	T	C	112.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.71;Cli
942	chrY	3641044	.	C	T	183.48	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-4.060e-
943	chrY	3641047	.	T	C	110.99	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=-7.270e-
944	chrY	3641482	.	C	T	181.74	PASS	AC=2;AF=0.029;AN=70;DP=658;FS=0.000;Inbre
945	chrY	3645499	.	A	G	88.44	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.18;Cli
946	chrY	3645582	.	G	A	273.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.421;Cl
947	chrY	3649831	.	C	T	84.39	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
948	chrY	3650113	.	C	T	1945.89	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.027;C
949	chrY	3650366	.	G	C	100.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.967;Cl
950	chrY	3650490	.	A	G	381.76	PASS	AC=6;AF=0.094;AN=64;DP=286;FS=0.000;Inbre
951	chrY	3652665	.	A	G	3052.79	PASS	AC=25;AF=0.893;AN=28;BaseQRankSum=1.03;Cl
952	chrY	3653209	.	C	G	238.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.27;Cli
953	chrY	3653308	.	G	A	114.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-4.370e-
954	chrY	3654067	.	C	T	8690.06	PASS	AC=56;AF=1.00;AN=56;DP=301;FS=0.000;Inbre
955	chrY	3655664	.	T	C	2860.29	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.204e
956	chrY	3656058	.	C	T	318.01	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=2.64;Cli
957	chrY	3656828	.	C	T	1252.70	PASS	AC=6;AF=0.088;AN=68;DP=602;FS=0.000;Inbre
958	chrY	3657418	.	T	C	105.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
959	chrY	3657477	.	A	G	385.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.43;Cli
960	chrY	3657497	.	G	A	495.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.065e+
961	chrY	3657513	.	T	C	586.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.203e+
962	chrY	3657573	.	A	G	1071.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.47;Cli
963	chrY	3658007	.	A	G	47.06	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
964	chrY	3659594	.	A	T	4744.39	PASS	AC=44;AF=0.647;AN=68;DP=327;FS=0.000;Inbr
965	chrY	3660206	.	C	T	38.33	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
966	chrY	3660510	.	G	T	409.51	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-8.880e-
967	chrY	3662214	.	G	T	55.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.365;Cl
968	chrY	3662680	.	C	T	580.04	PASS	AC=10;AF=1.00;AN=10;DP=40;FS=0.000;MLEAC=
969	chrY	3665127	.	G	T	223.26	PASS	AC=6;AF=0.088;AN=68;DP=291;FS=0.000;Inbre
970	chrY	3666521	.	G	A	1238.28	PASS	AC=6;AF=0.094;AN=64;DP=262;FS=0.000;Inbre
971	chrY	3667005	.	T	A	46.49	PASS	AC=2;AF=0.029;AN=68;DP=291;FS=0.000;Inbre
972	chrY	3667006	.	A	T	46.49	PASS	AC=2;AF=0.029;AN=68;DP=293;FS=0.000;Inbre
973	chrY	3670067	.	C	T	1023.24	PASS	AC=6;AF=0.086;AN=70;DP=610;FS=0.000;Inbre
974	chrY	3671526	.	C	T	47.63	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
975	chrY	3671886	.	C	T	314.54	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-3.610e-
976	chrY	3672241	.	C	T	728.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=2.39;Cli
977	chrY	3672642	.	G	T	37.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.832e+
978	chrY	3672888	.	A	G	47.59	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
979	chrY	3676226	.	G	A	38.17	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
980	chrY	3676289	.	A	T	115.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.50;Cli
981	chrY	3676814	.	G	A	851.46	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.35;Cli
982	chrY	3679254	.	T	C	321.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-8.210e-
983	chrY	3679310	.	C	G	232.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.44;Cli
984	chrY	3679366	.	C	T	896.57	PASS	AC=6;AF=0.088;AN=68;DP=411;FS=0.000;Inbre
985	chrY	3679613	.	A	G	439.88	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=-7.360e-
986	chrY	3682071	.	T	C	228.25	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-1.085e+
987	chrY	3682248	.	T	A	185.63	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.505e+
988	chrY	3682382	.	A	G	159.07	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=-1.240e+

989	chrY	3687624	.	C	G	4274.60	PASS	AC=44;AF=0.647;AN=68;DP=280;FS=0.000;Inbr
990	chrY	3688418	.	T	C	71.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
991	chrY	3688601	.	T	C	34.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.200e-
992	chrY	3688605	.	A	G	34.76	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e+
993	chrY	3689559	.	T	A	1166.17	PASS	AC=28;AF=0.609;AN=46;DP=207;FS=0.000;Inbr
994	chrY	3694513	.	A	G	445.98	PASS	AC=2;AF=0.031;AN=64;DP=260;FS=0.000;Inbr
995	chrY	3696719	.	G	A	417.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.200e-
996	chrY	3697997	.	C	T	42.23	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
997	chrY	3698889	.	T	A	117.80	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
998	chrY	3699160	.	G	A	437.82	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-5.330e
999	chrY	3699182	.	C	A	238.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.728;Cl
1000	chrY	3699324	.	G	A	165.71	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=2.34;Cli
1001	chrY	3701287	.	A	G	686.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-6.330e-
1002	chrY	3705398	.	A	G	578.13	PASS	AC=6;AF=0.086;AN=70;DP=231;FS=0.000;Inbre
1003	chrY	3706503	.	T	C	2974.20	PASS	AC=32;AF=1.00;AN=32;DP=121;FS=0.000;Inbre
1004	chrY	3708734	.	C	A	51.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.67;Cli
1005	chrY	3709722	.	C	T	125.31	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=2.36;Cli
1006	chrY	3709865	.	T	A	337.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-5.370e-
1007	chrY	3711559	.	G	A	151.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.38;Cli
1008	chrY	3712373	.	T	C	1378.19	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-9.860e
1009	chrY	3712374	.	G	C	1378.18	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.640e
1010	chrY	3712435	.	A	T	3894.68	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=1.40;Cl
1011	chrY	3712461	.	A	G	2596.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-9.350e
1012	chrY	3712546	.	T	C	3626.75	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.296;C
1013	chrY	3712570	.	C	T	4243.59	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=1.59;Cl
1014	chrY	3712788	.	G	A	2266.17	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.039;C
1015	chrY	3712825	.	C	A	797.80	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.406;Cl
1016	chrY	3712828	.	T	C	1620.29	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.479e+
1017	chrY	3712875	.	C	T	2654.88	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.00;Cl
1018	chrY	3712907	.	T	G	4082.09	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.198;C
1019	chrY	3712924	.	G	A	95.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.18;Cli
1020	chrY	3713006	.	G	A	4523.94	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-3.860e
1021	chrY	3713095	.	A	G	4824.27	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-3.610e
1022	chrY	3713191	.	C	A	8303.55	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.315;C
1023	chrY	3713204	.	G	C	7922.56	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.358;C
1024	chrY	3713245	.	T	A	2491.42	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.231;C
1025	chrY	3713292	.	G	T	5170.50	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.866;C
1026	chrY	3713309	.	A	C	3876.65	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.255;C
1027	chrY	3713315	.	G	T	5081.28	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=1.03;Cl
1028	chrY	3713348	.	G	C	3268.09	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-6.450e
1029	chrY	3713460	.	G	A	2992.04	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.988;C
1030	chrY	3713563	.	G	A	3666.46	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.582;C
1031	chrY	3713606	.	A	G	3400.44	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-4.280e
1032	chrY	3713630	.	T	C	4535.86	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-1.003e
1033	chrY	3713800	.	A	T	4818.15	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.546;C
1034	chrY	3713808	.	G	A	303.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.24;Cli
1035	chrY	3713937	.	G	A	4574.58	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=1.65;Cl
1036	chrY	3713954	.	T	C	3165.06	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.307e
1037	chrY	3713985	.	C	G	3569.06	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-1.300e
1038	chrY	3714028	.	T	C	4707.34	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.812e
1039	chrY	3714032	.	A	G	4718.10	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.237e
1040	chrY	3714070	.	G	C	3526.66	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-2.060e
1041	chrY	3714112	.	A	G	4543.45	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.421;C
1042	chrY	3714170	.	A	G	1710.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.252;Cl
1043	chrY	3714315	.	T	C	14856.93	PASS	AC=70;AF=1.00;AN=70;DP=523;FS=0.0
1044	chrY	3714345	.	G	T	3670.37	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.296;C
1045	chrY	3714353	.	A	T	2256.69	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.760;Cl
1046	chrY	3714363	.	G	A	5523.99	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.550;C
1047	chrY	3714435	.	A	G	2818.75	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.480e
1048	chrY	3714501	.	A	T	3444.79	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.420e
1049	chrY	3714714	.	T	A	2609.64	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=-1.068e
1050	chrY	3714776	.	G	A	1967.89	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=0.573;C
1051	chrY	3714803	.	C	T	3778.65	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.550;C
1052	chrY	3714821	.	G	T	4067.92	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.290;C
1053	chrY	3714894	.	A	G	2584.65	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-5.330e
1054	chrY	3714924	.	T	C	5453.79	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.115;C
1055	chrY	3714926	.	G	A	5454.18	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=-1.026e
1056	chrY	3715022	.	T	A	4172.15	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.00;Cl
1057	chrY	3715130	.	T	C	5588.51	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.382;C
1058	chrY	3715248	.	A	G	5586.60	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.406;C
1059	chrY	3715249	.	G	A	5630.84	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.825;C
1060	chrY	3715286	.	T	C	3558.24	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.330e
1061	chrY	3715338	.	G	T	3846	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.684;C
1062	chrY	3715431	.	G	A	2461.18	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.358;C
1063	chrY	3715498	.	G	A	4227.92	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.787;C
1064	chrY	3715593	.	G	A	4629.43	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-3.580e

1065	chrY	3715642	.	A	G	6526.39	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-1.111e
1066	chrY	3715698	.	C	T	3636.98	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=0.731;C
1067	chrY	3715806	.	T	G	4394.57	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.103;C
1068	chrY	3715866	.	A	C	4311.04	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-5.970e
1069	chrY	3716030	.	C	G	7694.27	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=2.00;C1
1070	chrY	3716034	.	A	G	7638.02	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-6.190e
1071	chrY	3716079	.	T	G	2613.20	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=-1.537e
1072	chrY	3716162	.	C	T	2199.30	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=0.829;C
1073	chrY	3716204	.	A	G	2273.34	PASS	AC=11;AF=0.220;AN=50;BaseQRankSum=0.536;C
1074	chrY	3716287	.	A	C	2647.68	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-9.470e
1075	chrY	3716311	.	T	C	5456.66	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-3.580e
1076	chrY	3716315	.	A	C	5453.99	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-9.680e
1077	chrY	3716332	.	C	T	3752.05	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-7.270e
1078	chrY	3716385	.	G	A	4541.29	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.937;C
1079	chrY	3716589	.	A	G	7612.51	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.123;C
1080	chrY	3716591	.	C	A	7612.92	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.921;C
1081	chrY	3716678	.	T	C	3797.55	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=0.143;C
1082	chrY	3716687	.	G	A	3972.37	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=1.50;C1
1083	chrY	3716911	.	C	T	1784.43	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=1.77;C1
1084	chrY	3717000	.	T	C	2228.15	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=-3.580e
1085	chrY	3717070	.	G	C	999.19	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-4.580e-
1086	chrY	3717095	.	C	T	3021.37	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.736;C
1087	chrY	3717186	.	C	T	3618.42	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.696;C
1088	chrY	3717336	.	T	G	1223.83	PASS	AC=12;AF=0.261;AN=46;BaseQRankSum=-1.484e
1089	chrY	3717472	.	A	G	2879.15	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=-3.980e
1090	chrY	3717546	.	C	A,*	4809.41	PASS	AC=12,6;AF=0.171,0.086;AN=70;BaseQRankSum
1091	chrY	3717568	.	T	C	1146.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.270e-
1092	chrY	3717723	.	C	T	5277.77	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-9.060e
1093	chrY	3717754	.	A	G	4231.49	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-6.530e
1094	chrY	3717868	.	A	T	5986.40	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.405;C
1095	chrY	3717869	.	A	C	5980.11	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.296;C
1096	chrY	3717921	.	C	A	4212.09	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-5.660e
1097	chrY	3718005	.	A	G	358.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.540e-
1098	chrY	3718066	.	A	G	2977.19	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.762;C
1099	chrY	3718196	.	C	T	13471.92	PASS	AC=66;AF=1.00;AN=66;DP=461;FS=0.0
1100	chrY	3718267	.	C	T	3672.96	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.101;C
1101	chrY	3718283	.	G	C	3927.42	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-6.910e
1102	chrY	3718469	.	C	G	4698.33	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=1.22;C1
1103	chrY	3718512	.	C	T	8392.06	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.470;C
1104	chrY	3718514	.	T	C	8391.96	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.560e
1105	chrY	3718538	.	C	T	4738.62	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-3.910e
1106	chrY	3718592	.	C	T	7653.74	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-7.970e
1107	chrY	3718595	.	T	G	7734.48	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-3.610e
1108	chrY	3718601	.	C	T	7314.72	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-8.130e
1109	chrY	3718671	.	A	C	4639.82	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-3.070e
1110	chrY	3718715	.	G	A	7109.22	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-7.880e
1111	chrY	3718725	.	A	G	7097.66	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.410e
1112	chrY	3718809	.	C	T	4162.01	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.248;C
1113	chrY	3718825	.	T	C	4444.20	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-4.700e
1114	chrY	3718862	.	A	G	3647.70	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.724e
1115	chrY	3718895	.	G	A	4261.28	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-4.700e
1116	chrY	3718925	.	G	C	7368.66	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.717;C
1117	chrY	3719001	.	A	T	7086.45	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.00;C1
1118	chrY	3719030	.	A	G	6285.46	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.092e
1119	chrY	3719066	.	G	A	11023.75	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
1120	chrY	3719071	.	A	G	11530.39	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
1121	chrY	3719078	.	G	C	11455.39	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
1122	chrY	3719094	.	G	A	7793.42	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.241e
1123	chrY	3719115	.	G	T	7470.08	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.431;C
1124	chrY	3719194	.	C	A	6983.61	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-4.700e
1125	chrY	3719228	.	C	G	8109.28	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-8.710e
1126	chrY	3719253	.	A	G	7352.32	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-5.630e
1127	chrY	3719265	.	G	A	7754.83	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-2.820e
1128	chrY	3719304	.	A	G	6207.51	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=-1.260e
1129	chrY	3719366	.	G	T	6889.99	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-4.230e
1130	chrY	3719373	.	C	T	6685.17	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=1.20;C1
1131	chrY	3719389	.	A	G	1087	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.011e+
1132	chrY	3719413	.	A	T	3390.42	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-6.500e
1133	chrY	3719473	.	T	A	4450.44	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.204;C
1134	chrY	3719485	.	G	A	5765.58	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=1.71;C1
1135	chrY	3719491	.	G	A	5723.64	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-6.000e
1136	chrY	3719514	.	C	T	52.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.031e+
1137	chrY	3719534	.	G	T	5215.51	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-9.370e
1138	chrY	3719626	.	C	T	7936.98	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.097;C
1139	chrY	3719651	.	A	G	8997.94	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.322;C
1140	chrY	3719800	.	C	T	324.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.03;Cli

1141	chrY	3719801	.	A	G	9232.47	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.106e
1142	chrY	3719824	.	T	C	9118.55	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-5.300e
1143	chrY	3719856	.	C	T	5646.05	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.243;C
1144	chrY	3719919	.	A	G	6873.49	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-9.900e
1145	chrY	3720007	.	C	A	6451.87	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.527;C
1146	chrY	3720058	.	T	C	6888.09	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-5.540e
1147	chrY	3720173	.	A	C	10667.16	PASS	AC=20;AF=0.333;AN=60;BaseQRankSum
1148	chrY	3720174	.	C	T	10650.82	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
1149	chrY	3720176	.	C	T	10622.23	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
1150	chrY	3720217	.	A	G	4412.65	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.799e
1151	chrY	3720251	.	A	G	3914.66	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-7.000e
1152	chrY	3720277	.	T	G	6876.82	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=1.05;C1
1153	chrY	3720302	.	G	A	7260.26	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.248;C
1154	chrY	3720319	.	A	C	7808.27	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-2.640e
1155	chrY	3720321	.	A	G	7847.32	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.286;C
1156	chrY	3720336	.	G	A	7136.95	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.285;C
1157	chrY	3720388	.	A	G	8233.57	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-4.670e
1158	chrY	3720391	.	A	G	8212.30	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.811;C
1159	chrY	3720392	.	T	A	8214.73	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.377;C
1160	chrY	3720463	.	G	A	8100.02	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.736;C
1161	chrY	3720464	.	C	A	8100.01	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.053;C
1162	chrY	3720581	.	A	G	6195.83	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.025e
1163	chrY	3720601	.	T	C	6800.61	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.697;C
1164	chrY	3720617	.	T	A	6764.13	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=0.135;C
1165	chrY	3720816	.	T	C	316.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-9.850e-
1166	chrY	3720852	.	G	A	183.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.430e-
1167	chrY	3720887	.	A	G	10391.08	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
1168	chrY	3720893	.	A	G	10714.93	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
1169	chrY	3720900	.	T	C	2385.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.460e+
1170	chrY	3721154	.	A	G	4884.06	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.643;C
1171	chrY	3721230	.	C	G	1422.46	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
1172	chrY	3721267	.	A	C	190.07	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
1173	chrY	3721328	.	G	A	186.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.20;Cli
1174	chrY	3721351	.	T	C	484.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.43;Cli
1175	chrY	3721360	.	A	G	491.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.467e+
1176	chrY	3721405	.	C	T	217.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-5.840e-
1177	chrY	3722691	.	A	G	3666.50	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.480e
1178	chrY	3727085	.	C	G	48.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
1179	chrY	3727195	.	T	C	176.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-2.074e+
1180	chrY	3727299	.	G	A	623.05	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=2.15;Cl
1181	chrY	3727374	.	A	T	1337.89	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.380e
1182	chrY	3727468	.	A	G	500.89	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.315;Cl
1183	chrY	3727485	.	T	C	246.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.924;Cl
1184	chrY	3728095	.	G	A	1225.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.186;Cl
1185	chrY	3735649	.	G	T	1105.52	PASS	AC=8;AF=0.400;AN=20;DP=142;FS=0.000;Inbre
1186	chrY	3736125	.	G	T	5283.96	PASS	AC=48;AF=0.727;AN=66;DP=310;FS=0.000;Inbr
1187	chrY	3736996	.	A	T	302.48	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-7.790e-
1188	chrY	3738544	.	G	A	244.32	PASS	AC=4;AF=0.069;AN=58;DP=225;FS=0.000;Inbre
1189	chrY	3741383	.	C	T	41.24	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.00;Cli
1190	chrY	3742783	.	A	G	382.50	PASS	AC=2;AF=0.029;AN=70;DP=391;FS=0.000;Inbre
1191	chrY	3744841	.	T	A	291.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.580;Cl
1192	chrY	3746789	.	G	A	592.75	PASS	AC=6;AF=0.086;AN=70;DP=354;FS=0.000;Inbre
1193	chrY	3747495	.	T	A	569.82	PASS	AC=14;AF=0.304;AN=46;DP=197;FS=0.000;Inbr
1194	chrY	3750476	.	A	C	108.52	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=1.65;Cli
1195	chrY	3750599	.	T	C	61.84	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQRankSum
1196	chrY	3750938	.	T	C	87.06	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.07;Cli
1197	chrY	3753136	.	G	T	231.88	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=0.537;Cl
1198	chrY	3754404	.	A	T	437.44	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
1199	chrY	3754410	.	C	T	408.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.271;Cl
1200	chrY	3756296	.	T	A	1951.14	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-7.960e
1201	chrY	3756315	.	C	T	2731.45	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-5.530e
1202	chrY	3756412	.	G	A	1108.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-5.370e-
1203	chrY	3758146	.	G	A	242.16	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.61;Cli
1204	chrY	3759022	.	T	C	6490.07	PASS	AC=58;AF=1.00;AN=58;DP=241;FS=0.000;Inbre
1205	chrY	3765902	.	A	G	861.38	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-2.120e-
1206	chrY	3766631	.	A	T	1772.18	PASS	AC=6;AF=0.120;AN=50;DP=171;FS=0.000;Inbre
1207	chrY	3767176	.	C	T	1176.44	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-3.180e
1208	chrY	3767723	.	A	G	932.11	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=0.751;Cl
1209	chrY	3770261	.	G	A	472.56	PASS	AC=2;AF=0.029;AN=70;DP=430;FS=0.000;Inbre
1210	chrY	3781183	.	T	C	1100.98	PASS	AC=6;AF=0.086;AN=70;DP=290;FS=0.000;Inbre
1211	chrY	3782442	.	T	C	235.04	PASS	AC=2;AF=0.029;AN=68;DP=353;FS=0.000;Inbre
1212	chrY	3785117	.	T	C	1108.68	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.000;Inbre
1213	chrY	3787595	.	T	C	1263.36	PASS	AC=6;AF=0.088;AN=68;DP=381;FS=0.000;Inbre
1214	chrY	3788114	.	T	C	11127.05	PASS	AC=70;AF=1.00;AN=70;DP=377;FS=0.0
1215	chrY	3789656	.	A	G	693.44	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=0.740;Cl
1216	chrY	3789795	.	G	C	1071.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.110e-

1217	chrY	3790759	.	G	T	379.37	PASS	AC=6;AF=0.086;AN=70;DP=263;FS=0.000;Inbre
1218	chrY	3793262	.	A	G	58.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1219	chrY	3793344	.	G	T	30.36	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-9.560e-
1220	chrY	3797921	.	T	C	79.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.327e+
1221	chrY	3798457	.	A	G	69.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.001e+
1222	chrY	3800017	.	A	T	1011	PASS	AC=6;AF=0.100;AN=60;DP=241;FS=0.000;Inbre
1223	chrY	3802669	.	A	C	182.70	PASS	AC=4;AF=0.067;AN=60;DP=227;FS=0.000;Inbre
1224	chrY	3803569	.	T	C	30.53	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.67;Cli
1225	chrY	3807395	.	A	G	979.48	PASS	AC=6;AF=0.088;AN=68;DP=453;FS=0.000;Inbre
1226	chrY	3810719	.	G	A	773.02	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=2.10;Cli
1227	chrY	3811173	.	C	A	560.88	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=-1.620e+
1228	chrY	3812743	.	A	C	259.60	PASS	AC=6;AF=0.091;AN=66;DP=139;FS=0.000;Inbre
1229	chrY	3813060	.	C	T	3200.90	PASS	AC=24;AF=1.00;AN=24;DP=133;FS=0.000;Inbre
1230	chrY	3814188	.	G	T	2145.90	PASS	AC=36;AF=0.667;AN=54;DP=229;FS=0.000;Inbr
1231	chrY	3821237	.	A	C	1629.75	PASS	AC=6;AF=0.088;AN=68;DP=302;FS=0.000;Inbre
1232	chrY	3822467	.	G	A	1208.63	PASS	AC=6;AF=0.111;AN=54;DP=193;FS=0.000;Inbre
1233	chrY	3827532	.	T	C	5799.24	PASS	AC=64;AF=1.00;AN=64;BaseQRankSum=1.39;Cli
1234	chrY	3829646	.	T	C	174.35	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=0.358;Cl
1235	chrY	3829722	.	C	T	95.77	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-1.026e+
1236	chrY	3830130	.	C	T	340.97	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=0.265;Cl
1237	chrY	3834492	.	T	A	301.23	PASS	AC=6;AF=0.091;AN=66;DP=330;FS=0.000;Inbre
1238	chrY	3836264	.	C	G	1068.50	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.000;Inbre
1239	chrY	3839913	.	C	T	1574.44	PASS	AC=30;AF=0.536;AN=56;DP=254;FS=0.000;Inbr
1240	chrY	3841080	.	A	G	279.08	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=0.332;Cl
1241	chrY	3841528	.	G	A	82.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1242	chrY	3841567	.	G	A	110.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.350e-
1243	chrY	3841754	.	G	T	326.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.08;Cli
1244	chrY	3841830	.	C	G	444.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=3.47;Cli
1245	chrY	3844998	.	C	G	5490.51	PASS	AC=38;AF=0.613;AN=62;DP=356;FS=0.000;Inbr
1246	chrY	3845142	.	G	C	157.31	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.387;Cl
1247	chrY	3845315	.	G	A	66.70	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.44;Cli
1248	chrY	3845447	.	C	T	41.39	PASS	AC=2;AF=0.030;AN=66;DP=232;FS=0.000;Inbre
1249	chrY	3845501	.	C	G	217.13	PASS	AC=4;AF=0.059;AN=68;DP=326;FS=0.000;Inbre
1250	chrY	3845618	.	C	T	5448.66	PASS	AC=38;AF=0.559;AN=68;DP=310;FS=0.000;Inbr
1251	chrY	3845886	.	C	T	98.48	PASS	AC=6;AF=0.091;AN=66;DP=127;FS=0.000;Inbre
1252	chrY	3851466	.	G	A	273.68	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.500e-
1253	chrY	3852181	.	G	A	91.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1254	chrY	3852427	.	C	T	1281.81	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=0.867;Cl
1255	chrY	3855502	.	A	G	898.98	PASS	AC=6;AF=0.088;AN=68;DP=420;FS=0.000;Inbre
1256	chrY	3856313	.	G	A	135.87	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1257	chrY	3856507	.	C	T	264.52	PASS	AC=2;AF=0.029;AN=68;DP=393;FS=0.000;Inbre
1258	chrY	3861383	.	C	T	40.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.96;Cli
1259	chrY	3861406	.	C	A	69.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.250e+
1260	chrY	3861770	.	T	G	1317.57	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.311;C
1261	chrY	3865716	.	A	G	42.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.289;Cl
1262	chrY	3865745	.	A	C	230.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.920e-
1263	chrY	3865794	.	G	C	210.13	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.070e-
1264	chrY	3869273	.	C	G	3640.87	PASS	AC=18;AF=1.00;AN=18;DP=142;FS=0.000;MLEAC
1265	chrY	3869745	.	G	A	3833.87	PASS	AC=18;AF=1.00;AN=18;DP=147;FS=0.000;MLEAC
1266	chrY	3875772	.	T	A	1329.74	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.37;Cli
1267	chrY	3877388	.	G	A	562.39	PASS	AC=4;AF=0.067;AN=60;DP=260;FS=0.000;Inbre
1268	chrY	3881881	.	G	A	270.77	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=0.175;Cl
1269	chrY	3881944	.	G	T	92.96	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQRankSum=
1270	chrY	3882455	.	C	T	13674.55	PASS	AC=46;AF=0.657;AN=70;DP=578;FS=0
1271	chrY	3885614	.	G	C	148.35	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQRankSum=
1272	chrY	3885995	.	T	A	605.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.36;Cli
1273	chrY	3886122	.	T	C	227.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.930;Cl
1274	chrY	3887741	.	G	T	5826.55	PASS	AC=56;AF=0.824;AN=68;DP=289;FS=0.000;Inbr
1275	chrY	3891474	.	C	T	938.31	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.736;C
1276	chrY	3894680	.	G	A	78.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.17;Cli
1277	chrY	3897610	.	A	T	1050.51	PASS	AC=6;AF=0.086;AN=70;DP=334;FS=0.000;Inbre
1278	chrY	3898381	.	A	G	671.33	PASS	AC=18;AF=1.00;AN=18;DP=39;FS=0.000;MLEAC
1279	chrY	3903702	.	C	T	242.17	PASS	AC=2;AF=0.029;AN=70;DP=562;FS=0.000;Inbre
1280	chrY	3903888	.	A	C	86.25	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.747;Cl
1281	chrY	3904002	.	C	T	633.04	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=-5.500e-
1282	chrY	3904003	.	A	G	626.25	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=0.406;Cl
1283	chrY	3904005	.	A	G	558.84	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=-4.960e-
1284	chrY	3904010	.	C	T,*	526.93	PASS	AC=6,3;AF=0.094,0.047;AN=64;BaseQRankSum=
1285	chrY	3904011	.	T	C	482.26	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-1.026e+
1286	chrY	3904013	.	T	C	484.81	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-5.030e-
1287	chrY	3904015	.	T	G	505.34	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=0.099;Cl
1288	chrY	3904016	.	G	C	33.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.38;Cli
1289	chrY	3904019	.	A	G	33.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
1290	chrY	3904026	.	C	A	177.40	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=0.731;Cl
1291	chrY	3905521	.	C	T	171.09	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=1.75;Cli
1292	chrY	3908328	.	C	T	2959.07	PASS	AC=22;AF=1.00;AN=22;DP=118;FS=0.000;Inbre

1293	chrY	3909630	.	T	C	2618.98	PASS	AC=12;AF=0.182;AN=66;DP=240;FS=0.000;Inbr
1294	chrY	3915727	.	A	G	30.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
1295	chrY	3915732	.	G	A	30.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
1296	chrY	3917511	.	T	C	640.37	PASS	AC=6;AF=0.333;AN=18;DP=112;FS=0.000;MLEAC
1297	chrY	3917650	.	C	A	152.88	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.727;Cl
1298	chrY	3917689	.	A	G	78.12	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.55;Cli
1299	chrY	3917844	.	G	A	1456.31	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.766;Cl
1300	chrY	3918060	.	G	T	215.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.52;Cli
1301	chrY	3918659	.	G	A	2693.92	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.58;Cl
1302	chrY	3919894	.	A	G	111.39	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
1303	chrY	3920101	.	T	C	629.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.107;Cl
1304	chrY	3920175	.	A	G	166.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-4.240e-
1305	chrY	3920370	.	A	G	58.90	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
1306	chrY	3920475	.	T	C	200	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.273e+
1307	chrY	3920754	.	C	T	67.12	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=2.26;Cli
1308	chrY	3920768	.	C	T	197.30	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.600;Cl
1309	chrY	3921849	.	T	G	438.06	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.380e+
1310	chrY	3923086	.	G	A	86.44	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
1311	chrY	3923120	.	A	T	793.96	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=1.69;Cli
1312	chrY	3923136	.	C	G	921.43	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=0.764;Cl
1313	chrY	3923174	.	T	C	457.99	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=-1.568e+
1314	chrY	3923867	.	G	A	95.53	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=1.80;Cli
1315	chrY	3924003	.	C	T	434.50	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=0.732;Cl
1316	chrY	3924037	.	T	A	826.17	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-6.330e-
1317	chrY	3924067	.	G	A	294.07	PASS	AC=2;AF=0.029;AN=68;DP=398;FS=0.000;Inbre
1318	chrY	3924392	.	C	T	1039.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.700e-
1319	chrY	3924394	.	C	A	1039.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.720e-
1320	chrY	3926508	.	T	A	485.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.157e+
1321	chrY	3926582	.	C	A	106.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.171;Cl
1322	chrY	3926641	.	A	T	372.19	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.020e-
1323	chrY	3926651	.	T	C	347.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.969e+
1324	chrY	3926742	.	G	A	91.21	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.38;Cli
1325	chrY	3926975	.	T	C	2465.70	PASS	AC=27;AF=0.482;AN=56;BaseQRankSum=-1.130e
1326	chrY	3927001	.	A	C	591.11	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-1.231e+
1327	chrY	3927009	.	T	A	38.76	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.231e+
1328	chrY	3927020	.	G	T	172.47	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.246e+
1329	chrY	3927259	.	A	C	217.87	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.457e+
1330	chrY	3927437	.	C	G	425.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.446;Cl
1331	chrY	3927594	.	T	G	324.14	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.839;Cl
1332	chrY	3927608	.	T	C	275.99	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.479e+
1333	chrY	3927689	.	A	G	135.41	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.741;Cl
1334	chrY	3929446	.	T	C	1055.24	PASS	AC=6;AF=0.088;AN=68;DP=429;FS=0.000;Inbre
1335	chrY	3931004	.	G	A	754.48	PASS	AC=6;AF=0.091;AN=66;DP=226;FS=0.000;Inbre
1336	chrY	3932521	.	G	A	269.03	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-3.060e-
1337	chrY	3933645	.	C	T	988.23	PASS	AC=6;AF=0.086;AN=70;DP=596;FS=0.000;Inbre
1338	chrY	3934370	.	A	G	547.78	PASS	AC=2;AF=0.029;AN=68;DP=324;FS=0.000;Inbre
1339	chrY	3936668	.	C	T	1334.53	PASS	AC=6;AF=0.088;AN=68;DP=311;FS=0.000;Inbre
1340	chrY	3940967	.	A	G	233.40	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=1.52;Cli
1341	chrY	3945008	.	G	A	48.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1342	chrY	3946434	.	C	A	42.43	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQRankSum=
1343	chrY	3949203	.	C	G	1286.03	PASS	AC=28;AF=0.609;AN=46;DP=166;FS=0.000;Inbr
1344	chrY	3959958	.	G	A	39.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1345	chrY	3960764	.	G	A	3428.60	PASS	AC=44;AF=0.647;AN=68;DP=258;FS=0.000;Inbr
1346	chrY	3962049	.	T	C	1372.28	PASS	AC=14;AF=0.538;AN=26;DP=175;FS=0.000;Inbr
1347	chrY	3963211	.	T	A	1894.91	PASS	AC=28;AF=0.538;AN=52;DP=211;FS=0.000;Inbr
1348	chrY	3966689	.	C	G	1032.07	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-3.910e-
1349	chrY	3966708	.	T	C	8307.12	PASS	AC=66;AF=1.00;AN=66;DP=280;FS=0.000;Inbre
1350	chrY	3966984	.	G	A	838.67	PASS	AC=4;AF=0.057;AN=70;DP=398;FS=0.000;Inbre
1351	chrY	3966991	.	T	C	783.01	PASS	AC=4;AF=0.057;AN=70;DP=359;FS=0.000;Inbre
1352	chrY	3967342	.	C	T	2476.99	PASS	AC=11;AF=0.611;AN=18;BaseQRankSum=0.00;Cl
1353	chrY	3967343	.	A	G	2476.98	PASS	AC=11;AF=0.611;AN=18;BaseQRankSum=2.36;Cl
1354	chrY	3967554	.	G	A	472.75	PASS	AC=2;AF=0.100;AN=20;DP=151;FS=0.000;Inbre
1355	chrY	3968094	.	G	A	1467.57	PASS	AC=6;AF=0.097;AN=62;DP=291;FS=0.000;Inbre
1356	chrY	3968852	.	T	G	1179.62	PASS	AC=6;AF=0.088;AN=68;DP=616;FS=0.000;Inbre
1357	chrY	3969202	.	A	G	835.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.590e-
1358	chrY	3970314	.	T	C	123.82	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=2.24;Cli
1359	chrY	3970414	.	A	G	106.97	PASS	AC=2;AF=0.031;AN=64;DP=230;FS=0.000;Inbre
1360	chrY	3980147	.	T	G	62.72	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1361	chrY	3980500	.	G	T	154.70	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=0.382;Cl
1362	chrY	3985570	.	T	C	42.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
1363	chrY	3986278	.	G	C	837.54	PASS	AC=6;AF=0.097;AN=62;DP=174;FS=0.000;Inbre
1364	chrY	3989146	.	T	C	50.57	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=0.942;Cl
1365	chrY	3989162	.	T	G	76.10	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=1.35;Cli
1366	chrY	3989233	.	T	A	555.41	PASS	AC=14;AF=0.333;AN=42;DP=169;FS=0.000;Inbr
1367	chrY	3989734	.	T	C	39.31	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-3.387e+
1368	chrY	3989883	.	T	A	153.35	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-2.800e-

1369	chrY	3990031	.	G	A	687.28	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=3.18;Cli
1370	chrY	3990111	.	C	A	351.14	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=2.49;Cli
1371	chrY	3990155	.	T	C	399.97	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-7.940e-
1372	chrY	3990160	.	C	G	397.10	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-6.730e-
1373	chrY	3990193	.	A	C	66.33	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=0.817;Cl
1374	chrY	3990303	.	C	T	184.38	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=-1.950e-
1375	chrY	3997322	.	T	C	739.85	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=-1.531e+
1376	chrY	3997336	.	A	T	179.66	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=-3.370e-
1377	chrY	3997496	.	C	T	931.39	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-4.120e-
1378	chrY	3997812	.	A	G	602.34	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=-2.401e+
1379	chrY	3998068	.	T	A	117.05	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=-7.450e-
1380	chrY	3998074	.	G	T	833.96	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=1.04;Cli
1381	chrY	3999570	.	T	C	765.80	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.670e-
1382	chrY	3999610	.	A	G	918.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.180e-
1383	chrY	3999627	.	A	G	735.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.800e-
1384	chrY	4001833	.	G	A	11245.09	PASS	AC=65;AF=0.985;AN=66;BaseQRankSum
1385	chrY	4004405	.	A	G	402.83	PASS	AC=6;AF=0.086;AN=70;DP=384;FS=0.000;Inbre
1386	chrY	4005199	.	A	T	213.49	PASS	AC=2;AF=0.029;AN=70;DP=482;FS=0.000;Inbre
1387	chrY	4009223	.	T	C	8369.05	PASS	AC=66;AF=1.00;AN=66;DP=345;FS=0.000;Inbre
1388	chrY	4009318	.	T	C	105.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-3.464e+
1389	chrY	4009475	.	C	T	215	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=-7.640e-
1390	chrY	4009674	.	T	C	308.72	PASS	AC=2;AF=0.029;AN=70;DP=280;FS=0.000;Inbre
1391	chrY	4010757	.	A	G	52.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.708e+
1392	chrY	4010763	.	C	T	52.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.43;Cli
1393	chrY	4011459	.	C	T	502.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.423;Cl
1394	chrY	4011488	.	T	A	78.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.198;Cl
1395	chrY	4011493	.	A	T	81.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.00;Cli
1396	chrY	4014087	.	C	T	546.82	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.549;Cl
1397	chrY	4014142	.	A	G	5621.46	PASS	AC=46;AF=0.676;AN=68;BaseQRankSum=0.079;C
1398	chrY	4014266	.	C	T	129.73	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=1.71;Cli
1399	chrY	4015346	.	G	A	171.45	PASS	AC=2;AF=0.029;AN=70;DP=385;FS=0.000;Inbre
1400	chrY	4017692	.	G	A	381.84	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-3.650e-
1401	chrY	4017815	.	C	A	1047.76	PASS	AC=6;AF=0.088;AN=68;DP=336;FS=0.000;Inbre
1402	chrY	4018338	.	G	A	1474.18	PASS	AC=6;AF=0.333;AN=18;DP=173;FS=0.000;MLEAC
1403	chrY	4021173	.	T	A	211.88	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=1.33;Cli
1404	chrY	4021390	.	C	T	152.84	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=2.00;Cli
1405	chrY	4021919	.	T	C	32.06	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-1.026e+
1406	chrY	4021930	.	C	T	83.63	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=-7.310e-
1407	chrY	4022150	.	C	T	50.74	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.789;Cl
1408	chrY	4022566	.	A	T	918.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.00;Cli
1409	chrY	4022634	.	C	T	49.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.793;Cl
1410	chrY	4022671	.	G	C	8201.19	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum=-1.179e
1411	chrY	4022679	.	G	C	7663.66	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum=-1.067e
1412	chrY	4023373	.	T	C	259.17	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-1.479e+
1413	chrY	4023570	.	C	A	68.11	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=2.86;Cli
1414	chrY	4023919	.	T	C	3152.96	PASS	AC=38;AF=0.679;AN=56;DP=258;FS=0.000;Inbr
1415	chrY	4024546	.	A	G	144.53	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.050e+
1416	chrY	4024585	.	A	G	178.95	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.382;Cl
1417	chrY	4024633	.	C	T	99.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.52;Cli
1418	chrY	4024687	.	T	A	154.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.358;Cl
1419	chrY	4024906	.	A	C	203.32	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.674;Cl
1420	chrY	4024945	.	T	C	233.71	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-7.520e-
1421	chrY	4024960	.	T	A	279.29	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=1.16;Cli
1422	chrY	4025436	.	C	T	146.61	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.588;Cl
1423	chrY	4025577	.	T	G	43.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.551;Cl
1424	chrY	4025776	.	C	A	333.89	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=-1.473e+
1425	chrY	4025890	.	C	T	1084.56	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=0.604;Cl
1426	chrY	4026208	.	C	A	50.95	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
1427	chrY	4026241	.	A	T	209.29	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=-7.410e-
1428	chrY	4026389	.	G	A	132.37	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=-7.500e-
1429	chrY	4028292	.	A	G	45.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.529;Cl
1430	chrY	4029687	.	T	C	92.34	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQRankSum=
1431	chrY	4029778	.	T	G	465.47	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-2.760e-
1432	chrY	4029893	.	A	G	1405.80	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-4.660e-
1433	chrY	4030172	.	G	C	36.50	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
1434	chrY	4032759	.	A	T	121.20	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.270e-
1435	chrY	4033966	.	C	T	680.63	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.503;Cl
1436	chrY	4033988	.	C	T	398.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.35;Cli
1437	chrY	4034014	.	G	T	157.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.41;Cli
1438	chrY	4034059	.	T	C	33.42	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
1439	chrY	4034107	.	T	G	331.87	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=0.615;Cl
1440	chrY	4035291	.	A	G	36.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
1441	chrY	4035390	.	A	C	398.75	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-1.509e+
1442	chrY	4035392	.	G	T	399.33	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.755;Cl
1443	chrY	4035411	.	T	A	273.35	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.151;Cl
1444	chrY	4035623	.	C	T	1467.20	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.00;Cli

1445	chrY	4035825	.	A	G	303.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.087e+
1446	chrY	4036770	.	A	G	430.87	PASS	AC=6;AF=0.088;AN=68;DP=266;FS=0.000;Inbre
1447	chrY	4041316	.	T	C	523.70	PASS	AC=4;AF=0.057;AN=70;DP=421;FS=0.000;Inbre
1448	chrY	4043165	.	T	C	509.32	PASS	AC=2;AF=0.029;AN=68;DP=292;FS=0.000;Inbre
1449	chrY	4043442	.	C	G	1012.37	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=-9.100e-
1450	chrY	4043575	.	G	T	284.40	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.270;Cl
1451	chrY	4046091	.	A	G	1930.82	PASS	AC=34;AF=0.739;AN=46;DP=171;FS=0.000;Inbr
1452	chrY	4051033	.	T	G	905.88	PASS	AC=14;AF=0.412;AN=34;DP=175;FS=0.000;Inbr
1453	chrY	4053473	.	A	G	689.02	PASS	AC=6;AF=0.086;AN=70;DP=344;FS=0.000;Inbre
1454	chrY	4057182	.	C	A	3326.76	PASS	AC=40;AF=0.625;AN=64;DP=265;FS=0.000;Inb
1455	chrY	4068544	.	C	A	1139.91	PASS	AC=6;AF=0.097;AN=62;DP=234;FS=0.000;Inbre
1456	chrY	4070838	.	T	C	927.48	PASS	AC=6;AF=0.088;AN=68;DP=518;FS=0.000;Inbre
1457	chrY	4076270	.	A	G	44.76	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-7.360e-
1458	chrY	4076583	.	A	T	1078.13	PASS	AC=6;AF=0.300;AN=20;DP=117;FS=0.000;Inbre
1459	chrY	4077007	.	T	A	1140.31	PASS	AC=6;AF=0.086;AN=70;DP=402;FS=0.000;Inbre
1460	chrY	4077503	.	G	C	235.40	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQRankSum=
1461	chrY	4077509	.	A	C	107.26	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-7.200e-
1462	chrY	4083245	.	C	A	200.20	PASS	AC=6;AF=0.094;AN=64;DP=198;FS=0.000;Inbre
1463	chrY	4087880	.	G	C	1045.69	PASS	AC=6;AF=0.086;AN=70;DP=326;FS=0.000;Inbre
1464	chrY	4088082	.	A	G	158.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.00;Cli
1465	chrY	4089811	.	G	A	229.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.58;Cli
1466	chrY	4090818	.	T	C	112.08	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.857e+
1467	chrY	4090820	.	T	C	114.13	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.739e+
1468	chrY	4090858	.	G	T	389.14	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=1.40;Cli
1469	chrY	4090860	.	C	G	389.14	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-1.940e-
1470	chrY	4090893	.	A	G	103.56	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
1471	chrY	4090923	.	C	A	50.59	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
1472	chrY	4099600	.	T	G	3696.86	PASS	AC=18;AF=1.00;AN=18;DP=150;FS=0.000;MLEAC
1473	chrY	4100795	.	G	A	2991.87	PASS	AC=18;AF=1.00;AN=18;DP=120;FS=0.000;MLEAC
1474	chrY	4105081	.	A	T	1285.76	PASS	AC=6;AF=0.094;AN=64;DP=253;FS=0.000;Inbre
1475	chrY	4110020	.	A	G	43.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.360e-
1476	chrY	4110021	.	T	C	43.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.360e-
1477	chrY	4114586	.	G	T	393.70	PASS	AC=2;AF=0.029;AN=70;DP=404;FS=0.000;Inbre
1478	chrY	4120380	.	A	G	170.53	PASS	AC=2;AF=0.029;AN=70;DP=390;FS=0.000;Inbre
1479	chrY	4120857	.	A	G	923.77	PASS	AC=6;AF=0.150;AN=40;DP=138;FS=0.000;Inbre
1480	chrY	4123617	.	G	C	828.44	PASS	AC=6;AF=0.273;AN=22;DP=121;FS=0.000;Inbre
1481	chrY	4123983	.	G	A	4743.87	PASS	AC=46;AF=0.719;AN=64;DP=324;FS=0.000;Inbr
1482	chrY	4126329	.	G	A	2118.45	PASS	AC=12;AF=0.171;AN=70;DP=332;FS=0.000;Inbr
1483	chrY	4127325	.	C	G	453.68	PASS	AC=6;AF=0.088;AN=68;DP=337;FS=0.000;Inbre
1484	chrY	4127795	.	G	A	1443.91	PASS	AC=28;AF=0.538;AN=52;DP=198;FS=0.000;Inbr
1485	chrY	4127817	.	G	T	966.58	PASS	AC=6;AF=0.103;AN=58;DP=195;FS=0.000;Inbre
1486	chrY	4130162	.	T	A	325.33	PASS	AC=2;AF=0.032;AN=62;DP=254;FS=0.000;Inbre
1487	chrY	4131646	.	T	A	833.54	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=1.40;Cli
1488	chrY	4134667	.	A	C	493.45	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.735e+
1489	chrY	4134701	.	G	A	7308.46	PASS	AC=48;AF=0.727;AN=66;DP=398;FS=0.000;Inbr
1490	chrY	4136676	.	A	T	38.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.433;Cl
1491	chrY	4136678	.	A	T	37.82	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.495e+
1492	chrY	4136680	.	A	T	39.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.495e+
1493	chrY	4142040	.	T	C	869.65	PASS	AC=6;AF=0.143;AN=42;DP=161;FS=0.000;Inbre
1494	chrY	4144872	.	A	C	1262.79	PASS	AC=24;AF=0.500;AN=48;DP=225;FS=0.000;Inbr
1495	chrY	4144980	.	G	C	447.10	PASS	AC=6;AF=0.086;AN=70;DP=365;FS=0.000;Inbre
1496	chrY	4146825	.	A	G	1757.16	PASS	AC=26;AF=0.520;AN=50;DP=250;FS=0.000;Inbr
1497	chrY	4154183	.	G	T	921.16	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.53;Cli
1498	chrY	4155252	.	G	C	1717.50	PASS	AC=30;AF=0.625;AN=48;DP=240;FS=0.000;Inbr
1499	chrY	4156276	.	G	A	806.93	PASS	AC=6;AF=0.091;AN=66;DP=225;FS=0.000;Inbre
1500	chrY	4156708	.	A	C	1459.46	PASS	AC=6;AF=0.086;AN=70;DP=578;FS=0.000;Inbre
1501	chrY	4157646	.	A	C	5960.58	PASS	AC=50;AF=0.735;AN=68;DP=372;FS=0.000;Inbr
1502	chrY	4158400	.	A	G	516.53	PASS	AC=6;AF=0.086;AN=70;DP=318;FS=0.000;Inbre
1503	chrY	4158596	.	C	T	884.39	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum=0.804;C
1504	chrY	4164161	.	C	G	50.98	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
1505	chrY	4164187	.	A	G	90.36	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-9.670e-
1506	chrY	4164189	.	A	C	51.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.300e-
1507	chrY	4164195	.	G	A	92.69	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=1.18;Cli
1508	chrY	4164262	.	C	A	267.60	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=2.27;Cli
1509	chrY	4164272	.	A	G	237.26	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.179e+
1510	chrY	4164297	.	G	A	240.17	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=2.01;Cli
1511	chrY	4164798	.	C	T	331.90	PASS	AC=2;AF=0.029;AN=68;DP=460;FS=0.000;Inbre
1512	chrY	4171208	.	C	T	927.65	PASS	AC=6;AF=0.120;AN=50;DP=156;FS=0.000;Inbre
1513	chrY	4171600	.	C	G	445.44	PASS	AC=6;AF=0.086;AN=70;DP=523;FS=0.000;Inbre
1514	chrY	4173236	.	A	T	489.57	PASS	AC=6;AF=0.094;AN=64;DP=273;FS=0.000;Inbre
1515	chrY	4179142	.	G	A	187.69	PASS	AC=2;AF=0.029;AN=70;DP=523;FS=0.000;Inbre
1516	chrY	4185783	.	G	C	195.25	PASS	AC=6;AF=0.094;AN=64;DP=257;FS=0.000;Inbre
1517	chrY	4188644	.	T	C	2650.39	PASS	AC=34;AF=1.00;AN=34;DP=164;FS=0.000;Inbre
1518	chrY	4189157	.	C	T	67.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=3.61;Cli
1519	chrY	4190338	.	A	G	939.91	PASS	AC=6;AF=0.088;AN=68;DP=281;FS=0.000;Inbre
1520	chrY	4195277	.	C	T	1223.97	PASS	AC=6;AF=0.111;AN=54;DP=198;FS=0.000;Inbre

1521	chrY	4199635	.	A	G	1085.37	PASS	AC=6;AF=0.091;AN=66;DP=226;FS=0.000;Inbre
1522	chrY	4202999	.	A	T	791.99	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=0.771;Cl
1523	chrY	4203639	.	T	C	963.43	PASS	AC=6;AF=0.086;AN=70;DP=361;FS=0.000;Inbre
1524	chrY	4212879	.	C	T	30.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
1525	chrY	4223155	.	G	A	2816.51	PASS	AC=12;AF=0.171;AN=70;DP=431;FS=0.000;Inbr
1526	chrY	4223442	.	A	G	3097.26	PASS	AC=40;AF=1.00;AN=40;DP=192;FS=0.000;Inbre
1527	chrY	4223608	.	G	A	902.41	PASS	AC=6;AF=0.250;AN=24;DP=152;FS=0.000;Inbre
1528	chrY	4224076	.	G	A	86.56	PASS	AC=6;AF=0.250;AN=24;DP=140;FS=0.000;Inbre
1529	chrY	4227538	.	C	T	863.77	PASS	AC=6;AF=0.300;AN=20;DP=153;FS=0.000;Inbre
1530	chrY	4230151	.	G	C	1167.06	PASS	AC=6;AF=0.094;AN=64;DP=364;FS=0.000;Inbre
1531	chrY	4231783	.	C	T	1186.13	PASS	AC=6;AF=0.088;AN=68;DP=281;FS=0.000;Inbre
1532	chrY	4237765	.	G	T	226.69	PASS	AC=8;AF=0.308;AN=26;DP=155;FS=0.000;Inbre
1533	chrY	4238487	.	A	G	396.32	PASS	AC=4;AF=0.063;AN=64;DP=213;FS=0.000;Inbre
1534	chrY	4244747	.	T	G	536.75	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=-9.920e-
1535	chrY	4248585	.	C	G	194.36	PASS	AC=6;AF=0.088;AN=68;DP=292;FS=0.000;Inbre
1536	chrY	4260696	.	T	C	336.50	PASS	AC=2;AF=0.048;AN=42;DP=168;FS=0.000;Inbre
1537	chrY	4263667	.	G	A	1356.06	PASS	AC=6;AF=0.088;AN=68;DP=362;FS=0.000;Inbre
1538	chrY	4265904	.	C	T	1130.13	PASS	AC=6;AF=0.086;AN=70;DP=473;FS=0.000;Inbre
1539	chrY	4270633	.	T	C	12915.52	PASS	AC=46;AF=0.657;AN=70;DP=650;FS=0.
1540	chrY	4277355	.	C	T	491.99	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=1.40;Cli
1541	chrY	4277827	.	C	A	44.35	PASS	AC=2;AF=0.036;AN=56;DP=236;FS=0.000;Inbre
1542	chrY	4278096	.	G	A	99.80	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.790e-
1543	chrY	4279760	.	A	G	4421.42	PASS	AC=39;AF=0.591;AN=66;BaseQRankSum=-4.950e
1544	chrY	4279995	.	A	G	3990.65	PASS	AC=44;AF=0.710;AN=62;DP=295;FS=0.000;Inbr
1545	chrY	4280606	.	C	T	399.78	PASS	AC=2;AF=0.029;AN=70;DP=319;FS=0.000;Inbre
1546	chrY	4282216	.	A	G	75.31	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.322;Cl
1547	chrY	4282662	.	T	C	797.24	PASS	AC=16;AF=0.400;AN=40;DP=184;FS=0.000;Inbr
1548	chrY	4288284	.	G	A	1434.19	PASS	AC=6;AF=0.333;AN=18;DP=176;FS=0.000;MLEAC
1549	chrY	4289464	.	G	C	42.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.739e+
1550	chrY	4289470	.	A	C	42.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-9.530e-
1551	chrY	4289481	.	A	G	42.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.056;Cl
1552	chrY	4289483	.	T	C	42.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.423;Cl
1553	chrY	4289528	.	G	A	48.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.948;Cl
1554	chrY	4289542	.	C	A	48.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.13;Cli
1555	chrY	4289556	.	C	T	48.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.61;Cli
1556	chrY	4292121	.	G	A	1690.85	PASS	AC=6;AF=0.231;AN=26;DP=189;FS=0.000;Inbre
1557	chrY	4294678	.	G	C	36.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
1558	chrY	4294686	.	T	A	36.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e-
1559	chrY	4295883	.	T	C	10185.75	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum
1560	chrY	4302569	.	G	T	638.03	PASS	AC=14;AF=0.412;AN=34;DP=165;FS=0.000;Inbr
1561	chrY	4303101	.	G	C	174.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.67;Cl
1562	chrY	4303158	.	T	C	1162.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.747;Cl
1563	chrY	4304759	.	G	T	726.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.167;Cl
1564	chrY	4311201	.	C	G	1231.46	PASS	AC=6;AF=0.088;AN=68;DP=478;FS=0.000;Inbre
1565	chrY	4311481	.	A	C	138.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.103e+
1566	chrY	4311526	.	T	C	111.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.057;Cl
1567	chrY	4311527	.	G	A	111.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.538e+
1568	chrY	4315074	.	T	C	36.45	PASS	AC=2;AF=0.030;AN=66;DP=237;FS=0.000;Inbre
1569	chrY	4315114	.	G	A	106.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.480e-
1570	chrY	4315403	.	A	C	50.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.35;Cli
1571	chrY	4315892	.	C	T	67.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-8.390e-
1572	chrY	4317897	.	T	C	67.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.787;Cl
1573	chrY	4318888	.	G	A	32.06	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.406;Cl
1574	chrY	4319659	.	C	G	53.93	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum
1575	chrY	4319851	.	A	G	292.93	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=2.36;Cli
1576	chrY	4320529	.	G	C	1459.77	PASS	AC=6;AF=0.188;AN=32;DP=185;FS=0.000;Inbre
1577	chrY	4321938	.	G	C	1180.90	PASS	AC=6;AF=0.086;AN=70;DP=660;FS=0.000;Inbre
1578	chrY	4324067	.	C	G	137.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.310e+
1579	chrY	4324451	.	T	C	179.82	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.231e+
1580	chrY	4325972	.	T	C	2403.86	PASS	AC=18;AF=1.00;AN=18;DP=138;FS=0.000;MLEAC
1581	chrY	4327478	.	T	C	101.90	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-7.270e-
1582	chrY	4327885	.	A	G	413	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.205e+
1583	chrY	4327996	.	G	C	178.91	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-1.026e+
1584	chrY	4328695	.	G	A	784.61	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-2.280e-
1585	chrY	4328714	.	A	G	1030.97	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.101;Cl
1586	chrY	4328987	.	G	C	37.70	PASS	AC=2;AF=0.053;AN=38;DP=118;FS=0.000;Inbre
1587	chrY	4329802	.	A	G	678.77	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.470e-
1588	chrY	4331093	.	A	G	380.89	PASS	AC=2;AF=0.029;AN=68;DP=327;FS=0.000;Inbre
1589	chrY	4336978	.	G	C	46.92	PASS	AC=2;AF=0.033;AN=60;DP=201;FS=0.000;Inbre
1590	chrY	4337372	.	C	T	469.86	PASS	AC=2;AF=0.029;AN=70;DP=309;FS=0.000;Inbre
1591	chrY	4338502	.	G	T	36.59	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=2.52;Cli
1592	chrY	4340626	.	A	G	3462.20	PASS	AC=42;AF=1.00;AN=42;DP=177;FS=0.000;Inbre
1593	chrY	4340996	.	G	A	297.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.849;Cl
1594	chrY	4342048	.	G	C	6524.15	PASS	AC=60;AF=1.00;AN=60;DP=223;FS=0.000;Inbre
1595	chrY	4342513	.	A	C	201.69	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.668;Cl
1596	chrY	4345610	.	C	T	66.42	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum

1597	chrY	4347628	.	C	T	756.81	PASS	AC=6;AF=0.086;AN=70;DP=447;FS=0.000;Inbre
1598	chrY	4349622	.	A	T	35.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1599	chrY	4349670	.	G	A	49.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.81;Cli
1600	chrY	4349792	.	G	A	178.72	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-7.800e-
1601	chrY	4350032	.	A	G	34.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.49;Cli
1602	chrY	4350267	.	G	C	995.58	PASS	AC=6;AF=0.086;AN=70;DP=452;FS=0.000;Inbre
1603	chrY	4351077	.	T	C	371.56	PASS	AC=2;AF=0.029;AN=70;DP=310;FS=0.000;Inbre
1604	chrY	4351447	.	T	A	1103.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.925;Cl
1605	chrY	4351631	.	A	G	191.24	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.00;Cli
1606	chrY	4352151	.	A	G	6625.22	PASS	AC=66;AF=1.00;AN=66;DP=239;FS=0.000;Inbre
1607	chrY	4352240	.	T	C	226.75	PASS	AC=2;AF=0.031;AN=64;DP=233;FS=0.000;Inbre
1608	chrY	4354762	.	G	C	7869.22	PASS	AC=52;AF=1.00;AN=52;DP=227;FS=0.000;Inbre
1609	chrY	4354763	.	A	C	4090.30	PASS	AC=12;AF=0.188;AN=64;DP=231;FS=0.000;Inbr
1610	chrY	4355755	.	T	C	6895.61	PASS	AC=46;AF=0.657;AN=70;DP=398;FS=0.000;Inbr
1611	chrY	4357591	.	T	C	8081.09	PASS	AC=68;AF=1.00;AN=68;DP=285;FS=0.000;Inbre
1612	chrY	4358743	.	C	T	1957.90	PASS	AC=18;AF=1.00;AN=18;DP=76;FS=0.000;MLEAC=
1613	chrY	4359188	.	C	T	94.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=3.51;Cli
1614	chrY	4360347	.	C	A	1064.51	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=-1.736e+
1615	chrY	4363561	.	T	G	1088.58	PASS	AC=24;AF=0.522;AN=46;DP=196;FS=0.000;Inbr
1616	chrY	4365734	.	G	T	4713.71	PASS	AC=38;AF=0.559;AN=68;DP=295;FS=0.000;Inbr
1617	chrY	4368015	.	A	G	178.91	PASS	AC=2;AF=0.029;AN=70;DP=447;FS=0.000;Inbre
1618	chrY	4368613	.	C	T	2611.81	PASS	AC=39;AF=0.609;AN=64;BaseQRankSum=0.358;C
1619	chrY	4370117	.	T	A	323.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.230e-
1620	chrY	4372216	.	A	G	559.78	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.000;Inbre
1621	chrY	4372325	.	C	A	826.56	PASS	AC=6;AF=0.088;AN=68;DP=231;FS=0.000;Inbre
1622	chrY	4373263	.	C	T	36.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1623	chrY	4375068	.	G	A	539.55	PASS	AC=6;AF=0.091;AN=66;DP=247;FS=0.000;Inbre
1624	chrY	4375325	.	T	G	224.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.141e+
1625	chrY	4375372	.	T	C	168.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.22;Cli
1626	chrY	4375715	.	T	C	200.36	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.118;Cl
1627	chrY	4376820	.	G	A	647.02	PASS	AC=2;AF=0.111;AN=18;DP=183;FS=0.000;MLEAC
1628	chrY	4377471	.	T	G	86.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-6.340e-
1629	chrY	4379306	.	A	G	89.25	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQRankSum=
1630	chrY	4379831	.	T	G	124.02	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.58;Cli
1631	chrY	4379974	.	T	A	121.19	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=2.08;Cli
1632	chrY	4381160	.	T	G	364.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.00;Cli
1633	chrY	4382462	.	A	G	410.46	PASS	AC=6;AF=0.107;AN=56;DP=123;FS=0.000;Inbre
1634	chrY	4386358	.	G	A	10942.93	PASS	AC=46;AF=0.657;AN=70;DP=539;FS=0.0
1635	chrY	4386550	.	C	G	55.48	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1636	chrY	4386601	.	G	A	1155.23	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.067;C
1637	chrY	4389042	.	T	A	122.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.593;Cl
1638	chrY	4389854	.	G	A	30.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
1639	chrY	4390891	.	T	C	179.77	PASS	AC=2;AF=0.043;AN=46;DP=161;FS=0.000;Inbre
1640	chrY	4391630	.	G	A	216.46	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=2.07;Cli
1641	chrY	4393100	.	C	T	112.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.58;Cli
1642	chrY	4393781	.	C	T	35.30	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
1643	chrY	4397050	.	T	G	209.96	my_snp_filter	AC=6;AF=0.176;AN=34;BaseQRankSum=
1644	chrY	4397076	.	G	T	238.11	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQRankSum=
1645	chrY	4397231	.	T	C	86.99	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQRankSum=
1646	chrY	4397475	.	C	T	75.09	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=1.97;Cli
1647	chrY	4401571	.	C	T	41.74	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
1648	chrY	4402237	.	C	A	9444.05	PASS	AC=48;AF=0.727;AN=66;DP=491;FS=0.000;Inbr
1649	chrY	4403059	.	T	C	1900.80	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
1650	chrY	4403101	.	C	G	2743.47	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum
1651	chrY	4403137	.	T	G	3743.80	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=1.02;Cl
1652	chrY	4403286	.	T	G	5892.63	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=0.660;C
1653	chrY	4403405	.	A	G	1894.37	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=-2.490e
1654	chrY	4403980	.	A	G	982.93	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=0.156;C
1655	chrY	4404041	.	T	C	1750.13	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=-1.467e
1656	chrY	4405072	.	T	G	107.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.203;Cl
1657	chrY	4405573	.	T	C	6145.26	PASS	AC=52;AF=1.00;AN=52;DP=232;FS=0.000;Inbre
1658	chrY	4406411	.	G	A	1510.15	PASS	AC=6;AF=0.086;AN=70;DP=425;FS=0.000;Inbre
1659	chrY	4407347	.	C	T	453.78	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.415;Cl
1660	chrY	4407355	.	G	A	1217.23	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
1661	chrY	4407462	.	G	A	99.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
1662	chrY	4409580	.	T	G	292.96	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=1.09;Cli
1663	chrY	4409982	.	C	T	984.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=1.04;Cli
1664	chrY	4411847	.	A	G	89.05	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.746e+
1665	chrY	4413115	.	A	G	43.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1666	chrY	4413362	.	T	C	103.36	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
1667	chrY	4415274	.	G	A	66.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.251;Cl
1668	chrY	4416011	.	T	C	475.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.506e+
1669	chrY	4416149	.	C	T	77.43	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.61;Cli
1670	chrY	4416157	.	T	G	109.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.80;Cli
1671	chrY	4416201	.	A	T	513.75	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=1.27;Cli
1672	chrY	4416259	.	C	G	616.21	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=1.15;Cli

1673	chrY	4416424	.	T	C	65.20	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
1674	chrY	4416473	.	A	T	72.69	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
1675	chrY	4416549	.	C	T	290.01	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-2.890e-
1676	chrY	4416630	.	T	G	124.18	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=1.66;Cli
1677	chrY	4416688	.	C	A	40.48	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=2.02;Cli
1678	chrY	4416697	.	G	A	36.24	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=2.02;Cli
1679	chrY	4416884	.	A	C	250.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.652e+
1680	chrY	4416906	.	G	A	311.31	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.37;Cli
1681	chrY	4416920	.	G	A	360.78	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.92;Cli
1682	chrY	4416935	.	G	A	351.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.03;Cli
1683	chrY	4416967	.	T	T	97.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
1684	chrY	4417098	.	G	C	429.25	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.98;Cli
1685	chrY	4417357	.	G	C	12922.83	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
1686	chrY	4418322	.	G	C	3248.18	PASS	AC=28;AF=1.00;AN=28;DP=136;FS=0.000;Inbre
1687	chrY	4419900	.	C	T	151.38	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=0.950;Cl
1688	chrY	4419952	.	A	G	860.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
1689	chrY	4420080	.	C	T	162.22	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
1690	chrY	4420889	.	C	A	142.84	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-8.100e-
1691	chrY	4420997	.	C	T	62.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.53;Cli
1692	chrY	4421034	.	G	T	192.03	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.92;Cli
1693	chrY	4421431	.	G	T	681.20	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=1.12;Cli
1694	chrY	4421864	.	T	G	447.41	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.320;Cl
1695	chrY	4424113	.	C	T	1837.26	PASS	AC=4;AF=0.059;AN=68;DP=598;FS=0.000;Inbre
1696	chrY	4424172	.	A	G	194.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-8.800e-
1697	chrY	4427466	.	T	A	30.25	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
1698	chrY	4427482	.	T	C	132.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.573e+
1699	chrY	4427484	.	T	C	132.47	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.657e+
1700	chrY	4427485	.	C	T	132.47	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.652e+
1701	chrY	4427911	.	A	T	44.49	PASS	AC=2;AF=0.034;AN=58;DP=166;FS=0.000;Inbre
1702	chrY	4428086	.	A	G	442.40	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
1703	chrY	4428328	.	T	C	566.70	PASS	AC=11;AF=0.344;AN=32;BaseQRankSum=-3.891e-
1704	chrY	4428370	.	G	C	2572.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=1.93;Cli
1705	chrY	4428487	.	G	T	106.08	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQRankSum=
1706	chrY	4431344	.	A	G	770.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=-8.490e-
1707	chrY	4431426	.	A	G	215.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.015e+
1708	chrY	4431531	.	A	G	474.56	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
1709	chrY	4431604	.	A	T	397.43	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-2.540e-
1710	chrY	4431613	.	G	A	359.40	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.484e+
1711	chrY	4431623	.	T	C	332.32	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.678e+
1712	chrY	4433972	.	C	A	58	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
1713	chrY	4435218	.	T	G	44.98	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
1714	chrY	4435570	.	G	C	56.40	PASS	AC=2;AF=0.043;AN=46;DP=167;FS=0.000;Inbre
1715	chrY	4436767	.	A	G	35.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.23;Cli
1716	chrY	4439043	.	C	T	85.70	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=0.922;Cl
1717	chrY	4439047	.	G	A	39.50	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-1.231e+
1718	chrY	4439169	.	C	T	543.49	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-1.473e+
1719	chrY	4440554	.	T	C	37.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1720	chrY	4441552	.	A	G	829.89	PASS	AC=4;AF=0.057;AN=70;DP=424;FS=0.000;Inbre
1721	chrY	4441852	.	A	C	123.86	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=0.00;Cli
1722	chrY	4441959	.	T	G	476.94	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=0.690;Cl
1723	chrY	4442007	.	C	T	1175.88	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=2.40;Cl
1724	chrY	4442072	.	C	T	1791.92	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.134;C
1725	chrY	4442562	.	A	G	40.20	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
1726	chrY	4443221	.	T	C	5376.23	PASS	AC=50;AF=1.00;AN=50;DP=189;FS=0.000;Inbre
1727	chrY	4443713	.	C	A	1114.19	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.53;Cli
1728	chrY	4444044	.	C	G	47.44	PASS	AC=2;AF=0.032;AN=62;DP=286;FS=0.000;Inbre
1729	chrY	4444110	.	C	T	5058.36	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=0.00;Cl
1730	chrY	4446430	.	A	T	6508.07	PASS	AC=54;AF=1.00;AN=54;BaseQRankSum=1.04;Cli
1731	chrY	4447773	.	C	G	1020.28	PASS	AC=6;AF=0.136;AN=44;DP=146;FS=0.000;Inbre
1732	chrY	4447931	.	C	T	956.41	PASS	AC=6;AF=0.088;AN=68;DP=286;FS=0.000;Inbre
1733	chrY	4449892	.	A	C	1468.77	PASS	AC=6;AF=0.086;AN=70;DP=376;FS=0.000;Inbre
1734	chrY	4450299	.	T	C	114.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.10;Cli
1735	chrY	4450335	.	G	A	244.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.16;Cli
1736	chrY	4450487	.	C	T	284.93	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=1.32;Cli
1737	chrY	4450551	.	C	T	42.79	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQRankSum=
1738	chrY	4450756	.	A	C	301.96	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=0.720;Cl
1739	chrY	4450757	.	G	A	301.50	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=1.40;Cli
1740	chrY	4450932	.	A	G	395.93	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=0.361;Cl
1741	chrY	4453480	.	C	A	57.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.00;Cli
1742	chrY	4453852	.	T	A	548	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=1.46;Cli
1743	chrY	4453978	.	A	T	1114.77	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-8.730e-
1744	chrY	4456367	.	G	C	7040.98	PASS	AC=43;AF=0.672;AN=64;BaseQRankSum=0.067;C
1745	chrY	4456434	.	A	T	277.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.026e+
1746	chrY	4456446	.	G	T	275.26	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.358;Cl
1747	chrY	4456637	.	C	T	49.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1748	chrY	4456669	.	A	G	190.33	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.300e+

1749	chrY	4456726	.	A	G	160.84	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
1750	chrY	4459062	.	G	A	391.19	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-9.100e-
1751	chrY	4460350	.	A	G	94.92	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
1752	chrY	4460933	.	T	C	705.18	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-7.510e-
1753	chrY	4461159	.	C	G	12996.94	PASS	AC=68;AF=1.00;AN=68;DP=448;FS=0.0
1754	chrY	4462151	.	T	C	423.90	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.594;Cl
1755	chrY	4462311	.	C	T	149.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1756	chrY	4465514	.	G	T	49.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.24;Cli
1757	chrY	4466272	.	G	A	848.50	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=1.03;Cli
1758	chrY	4466493	.	G	A	398.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=2.15;Cli
1759	chrY	4468493	.	T	G	1426.16	PASS	AC=30;AF=0.625;AN=48;DP=180;FS=0.000;Inbr
1760	chrY	4469135	.	G	T	187.46	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.400e-
1761	chrY	4472623	.	G	A	93.54	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
1762	chrY	4472721	.	A	G	3406.56	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=-1.311e
1763	chrY	4472748	.	C	G	5174.67	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=1.00;Cl
1764	chrY	4472851	.	G	C	2378.99	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-6.190e
1765	chrY	4473089	.	G	A	449.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.76;Cli
1766	chrY	4473258	.	A	C	983.29	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
1767	chrY	4473350	.	G	A	3290.89	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-2.700e
1768	chrY	4473970	.	G	C	140.99	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=-7.270e-
1769	chrY	4474188	.	T	C	135.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.589e+
1770	chrY	4474196	.	C	T	135.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.92;Cli
1771	chrY	4474293	.	C	G	218.80	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=1.30;Cli
1772	chrY	4474309	.	G	T	171.47	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=0.898;Cl
1773	chrY	4474593	.	G	A	75	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-7.200e-
1774	chrY	4476895	.	G	A	1153.75	PASS	AC=6;AF=0.086;AN=70;DP=440;FS=0.000;Inbre
1775	chrY	4480357	.	T	G	45.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.10;Cli
1776	chrY	4480421	.	C	T	348.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.026e+
1777	chrY	4480443	.	A	G	452.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-9.780e-
1778	chrY	4481384	.	A	G	1058.15	PASS	AC=6;AF=0.091;AN=66;DP=260;FS=0.000;Inbre
1779	chrY	4481718	.	C	T	809.89	PASS	AC=6;AF=0.097;AN=62;DP=214;FS=0.000;Inbre
1780	chrY	4483156	.	A	G	154.25	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=0.403;Cl
1781	chrY	4483744	.	G	A	275.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.17;Cli
1782	chrY	4483756	.	A	G	222.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.546e+
1783	chrY	4483835	.	A	T	191.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.809;Cl
1784	chrY	4483910	.	C	T	199.99	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=1.33;Cli
1785	chrY	4484099	.	T	C	38.21	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
1786	chrY	4484102	.	T	C	38.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
1787	chrY	4484787	.	C	T	432.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.500e-
1788	chrY	4484790	.	A	G	137.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.739;Cl
1789	chrY	4485719	.	G	T	35.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
1790	chrY	4485724	.	T	C	31.30	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
1791	chrY	4488266	.	G	A	1224.44	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=1.52;Cli
1792	chrY	4489035	.	A	G	283.12	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.604;Cl
1793	chrY	4489362	.	C	T	129.93	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=2.85;Cli
1794	chrY	4489540	.	C	T	126.82	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=3.53;Cli
1795	chrY	4490140	.	T	C	3635.66	PASS	AC=45;AF=0.703;AN=64;BaseQRankSum=0.00;Cl
1796	chrY	4490836	.	A	G	155.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.52;Cli
1797	chrY	4492401	.	A	G	67.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
1798	chrY	4493229	.	T	C	220.05	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.870e-
1799	chrY	4493529	.	A	G	197.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.03;Cli
1800	chrY	4496473	.	A	G	763.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.960e-
1801	chrY	4499916	.	T	C	90.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.400e-
1802	chrY	4500084	.	C	T	53.50	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.09;Cli
1803	chrY	4500403	.	C	T	144.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.324;Cl
1804	chrY	4502360	.	C	T	1013.11	PASS	AC=6;AF=0.214;AN=28;DP=156;FS=0.000;Inbre
1805	chrY	4502602	.	A	G	6081.99	PASS	AC=54;AF=0.844;AN=64;DP=276;FS=0.000;Inbr
1806	chrY	4502617	.	G	A	806.20	PASS	AC=2;AF=0.030;AN=66;DP=259;FS=0.000;Inbre
1807	chrY	4502637	.	A	G	390.13	PASS	AC=4;AF=0.065;AN=62;DP=240;FS=0.000;Inbre
1808	chrY	4502646	.	G	A	411.01	PASS	AC=4;AF=0.065;AN=62;DP=230;FS=0.000;Inbre
1809	chrY	4502656	.	A	G	243.48	PASS	AC=4;AF=0.067;AN=60;DP=225;FS=0.000;Inbre
1810	chrY	4503405	.	A	G	122.85	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=-7.510e-
1811	chrY	4508193	.	T	C	140.74	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1812	chrY	4511456	.	G	A	267.10	PASS	AC=2;AF=0.029;AN=70;DP=277;FS=0.000;Inbre
1813	chrY	4511508	.	T	C	75.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.705;Cl
1814	chrY	4512708	.	T	C	541.92	PASS	AC=6;AF=0.086;AN=70;DP=353;FS=0.000;Inbre
1815	chrY	4514306	.	G	C	1343.17	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
1816	chrY	4514307	.	A	C	1344.12	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
1817	chrY	4515487	.	G	A	176.16	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=2.25;Cli
1818	chrY	4515492	.	C	A	147.15	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=1.25;Cli
1819	chrY	4518528	.	C	T	1962.55	PASS	AC=33;AF=0.635;AN=52;BaseQRankSum=0.736;C
1820	chrY	4519866	.	A	T	1016.05	PASS	AC=16;AF=1.00;AN=16;BaseQRankSum=0.742;Cl
1821	chrY	4523395	.	G	T	399.95	PASS	AC=6;AF=0.086;AN=70;DP=298;FS=0.000;Inbre
1822	chrY	4523433	.	C	G	385.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.500e-
1823	chrY	4523539	.	T	C	61.05	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
1824	chrY	4525943	.	C	G	5430.41	PASS	AC=42;AF=0.700;AN=60;DP=321;FS=0.000;Inbr

1825	chrY	4535621	.	A	G	40.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.739e+
1826	chrY	4537758	.	C	G	45.72	PASS	AC=2;AF=0.100;AN=20;DP=137;FS=0.000;Inbre
1827	chrY	4538166	.	C	T	207.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.727;Cl
1828	chrY	4539402	.	T	G	1027.91	PASS	AC=6;AF=0.086;AN=70;DP=498;FS=0.000;Inbre
1829	chrY	4543649	.	T	C	55.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.90;Cli
1830	chrY	4543694	.	C	G	94.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.762;Cl
1831	chrY	4550201	.	C	T	126.72	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.566;Cl
1832	chrY	4553250	.	C	T	2625	PASS	AC=28;AF=0.483;AN=58;DP=281;FS=0.000;Inbr
1833	chrY	4554698	.	A	C	93.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1834	chrY	4554737	.	C	T	91.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.310e+
1835	chrY	4554780	.	A	G	143.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.280e+
1836	chrY	4554832	.	C	G	31.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.310e+
1837	chrY	4555064	.	T	C	146.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.04;Cli
1838	chrY	4555206	.	T	C	95.31	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.37;Cli
1839	chrY	4555311	.	T	C	193.91	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-2.512e+
1840	chrY	4555316	.	T	G	194.21	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=0.030;Cl
1841	chrY	4555551	.	T	C	373.15	PASS	AC=12;AF=1.00;AN=12;DP=45;FS=0.000;MLEAC=
1842	chrY	4556094	.	G	T	118.10	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-7.200e-
1843	chrY	4556713	.	G	T	12474.95	PASS	AC=68;AF=1.00;AN=68;DP=427;FS=0.0
1844	chrY	4556902	.	A	G	285.09	PASS	AC=4;AF=0.061;AN=66;DP=313;FS=0.000;Inbre
1845	chrY	4557737	.	G	A	409.94	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=2.13;Cl
1846	chrY	4557909	.	T	C	432.60	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.412;Cl
1847	chrY	4558065	.	T	C	37.76	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
1848	chrY	4559543	.	T	G	103.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.108e+
1849	chrY	4559964	.	C	T	280.72	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=1.18;Cli
1850	chrY	4559967	.	G	T	277.65	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-2.149e+
1851	chrY	4560606	.	C	T	61.21	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
1852	chrY	4561016	.	A	G	46.25	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=0.736;Cl
1853	chrY	4561308	.	A	C	920.46	PASS	AC=6;AF=0.125;AN=48;DP=143;FS=0.000;Inbre
1854	chrY	4563881	.	C	A	32.46	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-6.000e-
1855	chrY	4564239	.	G	T	1617.18	PASS	AC=16;AF=0.571;AN=28;BaseQRankSum=0.731;C
1856	chrY	4564926	.	C	T	774.69	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=0.747;Cl
1857	chrY	4571235	.	A	G	86.92	PASS	AC=4;AF=0.167;AN=24;DP=85;FS=0.000;Inbre
1858	chrY	4571329	.	G	A	550.76	PASS	AC=6;AF=0.086;AN=70;DP=373;FS=0.000;Inbre
1859	chrY	4575563	.	A	G	134.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.70;Cli
1860	chrY	4577558	.	C	T	632.32	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.000e+
1861	chrY	4577698	.	T	G	127.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
1862	chrY	4579790	.	A	G	447.66	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=-1.302e+
1863	chrY	4583128	.	T	C	72.21	PASS	AC=2;AF=0.100;AN=20;DP=68;FS=0.000;Inbre
1864	chrY	4585112	.	G	C	267.51	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-5.730e-
1865	chrY	4585401	.	A	G	32.83	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
1866	chrY	4589198	.	G	A	291.63	PASS	AC=2;AF=0.029;AN=70;DP=535;FS=0.000;Inbre
1867	chrY	4589434	.	A	G	65.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1868	chrY	4590046	.	T	C	6315.04	PASS	AC=54;AF=1.00;AN=54;DP=283;FS=0.000;Inbre
1869	chrY	4592437	.	A	G	122.02	PASS	AC=2;AF=0.029;AN=70;DP=399;FS=0.000;Inbre
1870	chrY	4593105	.	A	G	4291.83	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=0.537;C
1871	chrY	4594811	.	T	A	583.06	PASS	AC=2;AF=0.030;AN=66;DP=272;FS=0.000;Inbre
1872	chrY	4603976	.	A	G	1110.14	PASS	AC=6;AF=0.086;AN=70;DP=678;FS=0.000;Inbre
1873	chrY	4605789	.	T	C	237.57	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=-8.620e-
1874	chrY	4609387	.	C	T	116.69	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
1875	chrY	4611254	.	C	T	12012	PASS	AC=70;AF=1.00;AN=70;BaseQRankSum=1.39;Cli
1876	chrY	4611471	.	T	C	859.74	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.278;C
1877	chrY	4611504	.	G	A	100.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.38;Cli
1878	chrY	4612253	.	C	A	485.69	PASS	AC=6;AF=0.094;AN=64;DP=175;FS=0.000;Inbre
1879	chrY	4614006	.	A	C	172.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.78;Cli
1880	chrY	4617193	.	C	T	384.07	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=-1.798e+
1881	chrY	4617352	.	C	G	208.83	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=2.39;Cli
1882	chrY	4617807	.	C	A	318.40	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=0.820;Cl
1883	chrY	4618583	.	C	T	30.90	PASS	AC=2;AF=0.032;AN=62;DP=195;FS=0.000;Inbre
1884	chrY	4619210	.	T	A	1232.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=0.720;Cl
1885	chrY	4619419	.	T	C	87.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
1886	chrY	4622307	.	T	C	30.07	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
1887	chrY	4622337	.	C	G	71.20	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=2.40;Cli
1888	chrY	4622346	.	A	C	44.87	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
1889	chrY	4623422	.	G	C	1212.64	PASS	AC=6;AF=0.273;AN=22;DP=172;FS=0.000;Inbre
1890	chrY	4624062	.	G	A	510.17	PASS	AC=2;AF=0.091;AN=22;DP=170;FS=0.000;Inbre
1891	chrY	4625885	.	G	A	44.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.929;Cl
1892	chrY	4625886	.	T	C	3961.76	PASS	AC=41;AF=0.621;AN=66;BaseQRankSum=-6.000e
1893	chrY	4626652	.	C	T	6132.29	PASS	AC=54;AF=0.818;AN=66;DP=302;FS=0.000;Inbr
1894	chrY	4629301	.	T	C	1107.56	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.668;Cl
1895	chrY	4629741	.	G	A	96.42	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.71;Cli
1896	chrY	4630981	.	A	T	343.85	PASS	AC=4;AF=0.057;AN=70;DP=512;FS=0.000;Inbre
1897	chrY	4631650	.	G	A	899.86	PASS	AC=6;AF=0.107;AN=56;DP=154;FS=0.000;Inbre
1898	chrY	4632020	.	T	A	5343.29	PASS	AC=46;AF=1.00;AN=46;DP=193;FS=0.000;Inbre
1899	chrY	4632812	.	G	A	617.07	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=1.38;Cli
1900	chrY	4632859	.	C	T	215.66	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=1.25;Cli

1901	chrY	4632965	.	T	A	50.67	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
1902	chrY	4633690	.	C	T	439.26	PASS	AC=2;AF=0.034;AN=58;DP=186;FS=0.000;Inbre
1903	chrY	4635281	.	A	G	355.09	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-1.156e+
1904	chrY	4640974	.	G	A	84.80	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=1.59;Cli
1905	chrY	4643090	.	T	C	1543.03	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=-2.900e
1906	chrY	4644185	.	A	G	4133.07	PASS	AC=40;AF=1.00;AN=40;DP=163;FS=0.000;Inbre
1907	chrY	4646340	.	G	A	1267.07	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.66;Cli
1908	chrY	4646572	.	G	T	13412.98	PASS	AC=66;AF=1.00;AN=66;DP=464;FS=0.0
1909	chrY	4647538	.	T	C	356.39	PASS	AC=6;AF=0.088;AN=68;DP=303;FS=0.000;Inbre
1910	chrY	4659522	.	G	A	1389.57	PASS	AC=6;AF=0.088;AN=68;DP=306;FS=0.000;Inbre
1911	chrY	4661072	.	T	C	1835.97	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-7.950e
1912	chrY	4661084	.	G	A	1985.90	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.572;C
1913	chrY	4661465	.	G	T	988.47	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.600;Cl
1914	chrY	4662848	.	T	C	318.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.560e-
1915	chrY	4663958	.	A	G	84.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.274;Cl
1916	chrY	4664074	.	T	A	492.59	PASS	AC=2;AF=0.029;AN=68;DP=541;FS=0.000;Inbre
1917	chrY	4667256	.	T	G	37.70	PASS	AC=2;AF=0.100;AN=20;DP=162;FS=0.000;Inbre
1918	chrY	4667522	.	A	G	43.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1919	chrY	4670852	.	A	C	1227.16	PASS	AC=6;AF=0.086;AN=70;DP=646;FS=0.000;Inbre
1920	chrY	4672306	.	G	A	131.56	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1921	chrY	4672316	.	G	A	250.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.847;Cl
1922	chrY	4672485	.	A	T	469.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
1923	chrY	4672538	.	G	A	31.07	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1924	chrY	4673342	.	T	A	311.69	PASS	AC=2;AF=0.036;AN=56;DP=198;FS=0.000;Inbre
1925	chrY	4673384	.	C	T	90.76	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQRankSum=
1926	chrY	4673808	.	A	T	202.88	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.550;Cl
1927	chrY	4674129	.	C	G	313.96	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-8.670e-
1928	chrY	4675616	.	C	T	233.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-6.900e-
1929	chrY	4675632	.	G	C	372.78	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.515;Cl
1930	chrY	4675655	.	C	T	346.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.187;Cl
1931	chrY	4677293	.	T	G	853.09	PASS	AC=6;AF=0.088;AN=68;DP=405;FS=0.000;Inbre
1932	chrY	4677807	.	G	A	6013.28	PASS	AC=58;AF=1.00;AN=58;DP=214;FS=0.000;Inbre
1933	chrY	4686515	.	A	C	103.29	PASS	AC=2;AF=0.077;AN=26;DP=102;FS=0.000;Inbre
1934	chrY	4687696	.	G	A	1015.10	PASS	AC=6;AF=0.250;AN=24;DP=150;FS=0.000;Inbre
1935	chrY	4688514	.	T	C	49.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.551;Cl
1936	chrY	4688849	.	T	C	259.70	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=-1.980e-
1937	chrY	4689988	.	G	T	48.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.800e-
1938	chrY	4691208	.	T	A	122.14	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=0.248;Cl
1939	chrY	4692745	.	A	G	903.16	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.423;C
1940	chrY	4693308	.	G	A	101.89	PASS	AC=4;AF=0.067;AN=60;DP=216;FS=0.000;Inbre
1941	chrY	4694533	.	A	G	84.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1942	chrY	4695807	.	C	G	424.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.727;Cl
1943	chrY	4699800	.	G	T	36.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
1944	chrY	4699801	.	A	C	36.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.580e-
1945	chrY	4700138	.	A	G	36.05	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.231e+
1946	chrY	4700146	.	C	T	32.49	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-9.220e-
1947	chrY	4703765	.	T	C	40.54	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.736;Cl
1948	chrY	4705224	.	A	G	1632.09	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-3.800e
1949	chrY	4705673	.	C	T	245.71	PASS	AC=2;AF=0.029;AN=70;DP=317;FS=0.000;Inbre
1950	chrY	4705698	.	G	A	44.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.731;Cl
1951	chrY	4706034	.	A	G	1050.38	PASS	AC=6;AF=0.088;AN=68;DP=261;FS=0.000;Inbre
1952	chrY	4708255	.	T	C	669.30	PASS	AC=6;AF=0.088;AN=68;DP=376;FS=0.000;Inbre
1953	chrY	4708453	.	T	C	84.87	PASS	AC=2;AF=0.034;AN=58;DP=243;FS=0.000;Inbre
1954	chrY	4708598	.	A	G	152.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.322;Cl
1955	chrY	4708824	.	C	T	338.38	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=0.00;Cli
1956	chrY	4711716	.	A	T	34.70	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.380e+
1957	chrY	4711721	.	T	C	34.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e+
1958	chrY	4711910	.	G	A	91.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.38;Cli
1959	chrY	4711956	.	A	G	1708.28	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.710;C
1960	chrY	4712526	.	C	T	71.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1961	chrY	4712527	.	A	G	71.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
1962	chrY	4713483	.	G	T	943.94	PASS	AC=6;AF=0.176;AN=34;DP=154;FS=0.000;Inbre
1963	chrY	4715572	.	G	A	5683.22	PASS	AC=54;AF=0.818;AN=66;DP=294;FS=0.000;Inbr
1964	chrY	4718404	.	T	C	263.68	PASS	AC=10;AF=0.313;AN=32;DP=156;FS=0.000;Inbr
1965	chrY	4719769	.	T	C	546.14	PASS	AC=6;AF=0.086;AN=70;DP=381;FS=0.000;Inbre
1966	chrY	4721055	.	C	T	1738.37	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-6.350e
1967	chrY	4721614	.	G	T	1433.75	PASS	AC=28;AF=0.519;AN=54;BaseQRankSum=1.50;Cl
1968	chrY	4721971	.	A	T	5973.24	PASS	AC=50;AF=1.00;AN=50;DP=212;FS=0.000;Inbre
1969	chrY	4722587	.	C	T	87.21	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=2.92;Cli
1970	chrY	4723741	.	C	T	3481.60	PASS	AC=42;AF=0.700;AN=60;DP=248;FS=0.000;Inbr
1971	chrY	4726768	.	C	T	51.64	PASS	AC=2;AF=0.091;AN=22;DP=189;FS=0.000;Inbre
1972	chrY	4726769	.	C	G	51.63	PASS	AC=2;AF=0.091;AN=22;DP=189;FS=0.000;Inbre
1973	chrY	4726784	.	G	C	51.63	PASS	AC=2;AF=0.091;AN=22;DP=192;FS=0.000;Inbre
1974	chrY	4726789	.	T	G	51.63	PASS	AC=2;AF=0.091;AN=22;DP=195;FS=0.000;Inbre
1975	chrY	4726795	.	G	A	51.63	PASS	AC=2;AF=0.091;AN=22;DP=191;FS=0.000;Inbre
1976	chrY	4726797	.	T	G	51.63	PASS	AC=2;AF=0.091;AN=22;DP=190;FS=0.000;Inbre

1977	chrY	4726801	.	C	T	51.64	PASS	AC=2;AF=0.091;AN=22;DP=186;FS=0.000;Inbre
1978	chrY	4728909	.	A	T	1400.18	PASS	AC=6;AF=0.333;AN=18;DP=164;FS=0.000;MLEAC
1979	chrY	4734255	.	A	G	175.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
1980	chrY	4734305	.	C	G	185.72	PASS	AC=2;AF=0.029;AN=70;DP=509;FS=0.000;Inbre
1981	chrY	4734812	.	T	A	405.24	PASS	AC=2;AF=0.083;AN=24;DP=156;FS=0.000;Inbre
1982	chrY	4735034	.	G	A	1014.30	PASS	AC=6;AF=0.167;AN=36;DP=167;FS=0.000;Inbre
1983	chrY	4736563	.	G	C	1013.75	PASS	AC=6;AF=0.300;AN=20;DP=176;FS=0.000;Inbre
1984	chrY	4738242	.	C	A	1086.19	PASS	AC=6;AF=0.333;AN=18;DP=154;FS=0.000;MLEAC
1985	chrY	4741735	.	C	T	104.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.037;Cl
1986	chrY	4741738	.	T	C	103.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.557e+
1987	chrY	4741866	.	A	G	11389.99	PASS	AC=70;AF=1.00;AN=70;DP=372;FS=0.0
1988	chrY	4742384	.	G	A	247.53	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.727;Cl
1989	chrY	4742556	.	T	C	49.84	PASS	AC=2;AF=0.048;AN=42;DP=77;FS=0.000;Inbre
1990	chrY	4746512	.	C	A	92.32	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=0.978;Cl
1991	chrY	4746786	.	T	C	2208.53	PASS	AC=33;AF=0.589;AN=56;BaseQRankSum=0.727;C
1992	chrY	4748455	.	C	T	328.01	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-4.650e-
1993	chrY	4748808	.	T	A	191.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.38;Cli
1994	chrY	4752144	.	T	G	112.23	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
1995	chrY	4754322	.	G	A	1458.68	PASS	AC=6;AF=0.200;AN=30;DP=173;FS=0.000;Inbre
1996	chrY	4755190	.	G	C	73.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
1997	chrY	4757028	.	C	A	198.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.067;Cl
1998	chrY	4759573	.	A	G	40.91	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=-2.598e+
1999	chrY	4762829	.	C	T	285.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.19;Cli
2000	chrY	4763853	.	G	A	716.39	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=2.80;Cli
2001	chrY	4764660	.	C	G	67.91	PASS	AC=2;AF=0.031;AN=64;DP=132;FS=0.000;Inbre
2002	chrY	4773391	.	C	T	33.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2003	chrY	4773401	.	A	T	33.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.720;Cl
2004	chrY	4775278	.	T	A	999.67	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.20;Cli
2005	chrY	4778570	.	G	A	595.85	PASS	AC=6;AF=0.086;AN=70;DP=424;FS=0.000;Inbre
2006	chrY	4778834	.	T	C	42.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.200e-
2007	chrY	4779579	.	G	T	31.40	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=0.572;Cl
2008	chrY	4782498	.	C	G	4195.86	PASS	AC=18;AF=1.00;AN=18;DP=186;FS=0.000;MLEAC
2009	chrY	4783252	.	C	T	1543.19	PASS	AC=6;AF=0.333;AN=18;DP=163;FS=0.000;MLEAC
2010	chrY	4784938	.	A	T	267.14	PASS	AC=6;AF=0.097;AN=62;DP=296;FS=0.000;Inbre
2011	chrY	4784975	.	T	C	44.71	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
2012	chrY	4784997	.	A	G	111.59	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=-5.530e-
2013	chrY	4785008	.	G	C	169.08	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=-3.810e-
2014	chrY	4786112	.	C	T	430.69	PASS	AC=6;AF=0.300;AN=20;DP=80;FS=0.000;Inbre
2015	chrY	4788875	.	G	A	1310.78	PASS	AC=6;AF=0.086;AN=70;DP=578;FS=0.000;Inbre
2016	chrY	4789878	.	C	T	67.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.32;Cli
2017	chrY	4790048	.	A	G	109.15	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.850e-
2018	chrY	4790553	.	G	A	216.91	PASS	AC=2;AF=0.031;AN=64;DP=301;FS=0.000;Inbre
2019	chrY	4792162	.	C	G	1280.88	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum=
2020	chrY	4792384	.	A	T	30.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.200e-
2021	chrY	4792953	.	A	G	1320.69	PASS	AC=6;AF=0.091;AN=66;DP=401;FS=0.000;Inbre
2022	chrY	4795302	.	A	G	645.23	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-9.080e-
2023	chrY	4795912	.	T	C	108.24	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=1.38;Cli
2024	chrY	4795967	.	A	T	100.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-4.900e-
2025	chrY	4796240	.	A	G	981.73	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-5.500e-
2026	chrY	4796316	.	G	A	35.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2027	chrY	4797787	.	A	C	92.84	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=1.23;Cli
2028	chrY	4800088	.	A	G	96.21	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.73;Cli
2029	chrY	4802141	.	C	T	7251.24	PASS	AC=48;AF=0.727;AN=66;DP=370;FS=0.000;Inbr
2030	chrY	4803453	.	C	T	4504.06	PASS	AC=50;AF=0.735;AN=68;DP=266;FS=0.000;Inbr
2031	chrY	4807096	.	G	C	38.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.53;Cli
2032	chrY	4807735	.	A	G	1092.52	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=1.53;Cli
2033	chrY	4809309	.	C	T	129.07	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.550;Cl
2034	chrY	4809830	.	G	A	444.79	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.916;Cl
2035	chrY	4811910	.	T	C	49.31	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2036	chrY	4812825	.	T	C	440.12	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-6.840e-
2037	chrY	4813078	.	C	T	148.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
2038	chrY	4813210	.	A	G	44.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2039	chrY	4814588	.	G	A	2448	PASS	AC=20;AF=1.00;AN=20;DP=104;FS=0.000;Inbre
2040	chrY	4816630	.	T	G	42.89	PASS	AC=2;AF=0.033;AN=60;DP=202;FS=0.000;Inbre
2041	chrY	4818883	.	A	T	70.96	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2042	chrY	4818961	.	C	T	211.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.417;Cl
2043	chrY	4818964	.	G	A	290.03	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-2.091e+
2044	chrY	4818989	.	A	G	71.97	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2045	chrY	4819010	.	G	A	46.36	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2046	chrY	4819107	.	C	A	319.96	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=1.63;Cli
2047	chrY	4819271	.	G	A	99.94	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2048	chrY	4819352	.	G	A	30.22	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2049	chrY	4819353	.	G	T	30.14	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2050	chrY	4819377	.	T	G	35.45	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2051	chrY	4819405	.	G	A	151.13	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2052	chrY	4819416	.	C	A	151.62	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=

2053	chrY	4819441	.	G	A	80.95	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2054	chrY	4820086	.	A	G	99.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.34;Cli
2055	chrY	4820092	.	T	A	132.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.773e+
2056	chrY	4820100	.	A	G	129.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.016e+
2057	chrY	4820118	.	A	T	159.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.459e+
2058	chrY	4820132	.	G	T	155.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.91;Cli
2059	chrY	4821316	.	G	A	177.16	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2060	chrY	4821987	.	T	C	674.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2061	chrY	4821988	.	G	A	674.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2062	chrY	4822246	.	A	G	57.44	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
2063	chrY	4822377	.	C	T	187.43	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2064	chrY	4822557	.	C	A	892.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=1.50;Cli
2065	chrY	4822614	.	T	G	98.42	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2066	chrY	4822826	.	T	C	1142.71	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
2067	chrY	4822945	.	T	C	871.29	PASS	AC=10;AF=0.455;AN=22;DP=143;FS=0.000;Inbr
2068	chrY	4824331	.	G	A	896.98	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-8.500e-
2069	chrY	4827776	.	C	T	388.44	PASS	AC=2;AF=0.031;AN=64;DP=223;FS=0.000;Inbre
2070	chrY	4828081	.	G	A	232.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-4.120e-
2071	chrY	4828969	.	A	G	172.61	PASS	AC=8;AF=0.286;AN=28;DP=126;FS=0.000;Inbre
2072	chrY	4830185	.	T	C	163.82	PASS	AC=2;AF=0.029;AN=70;DP=532;FS=0.000;Inbre
2073	chrY	4830642	.	C	T	1643.75	PASS	AC=18;AF=0.600;AN=30;DP=169;FS=0.000;Inbr
2074	chrY	4832128	.	G	C	979.23	PASS	AC=6;AF=0.088;AN=68;DP=562;FS=0.000;Inbre
2075	chrY	4832939	.	A	C	50.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2076	chrY	4834281	.	C	A	116.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.00;Cli
2077	chrY	4843273	.	G	A	122.69	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=2.37;Cli
2078	chrY	4848709	.	C	T	370.99	PASS	AC=6;AF=0.333;AN=18;DP=84;FS=0.000;MLEAC=
2079	chrY	4851190	.	C	T	381.55	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=0.786;Cl
2080	chrY	4851694	.	C	G	599.77	PASS	AC=6;AF=0.086;AN=70;DP=494;FS=0.000;Inbre
2081	chrY	4852881	.	T	C	32.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2082	chrY	4854094	.	T	A	91.50	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.00;Cli
2083	chrY	4854252	.	G	A	44.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2084	chrY	4854274	.	G	A	115.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.87;Cli
2085	chrY	4859035	.	T	C	1371.06	PASS	AC=22;AF=1.00;AN=22;DP=91;FS=0.000;Inbre
2086	chrY	4862235	.	A	G	34.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.200e-
2087	chrY	4862249	.	A	G	31.09	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.495e+
2088	chrY	4866424	.	G	C	1265.12	PASS	AC=6;AF=0.086;AN=70;DP=555;FS=0.000;Inbre
2089	chrY	4866502	.	A	G	32.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.330e-
2090	chrY	4866955	.	C	A	380.17	PASS	AC=2;AF=0.030;AN=66;DP=270;FS=0.000;Inbre
2091	chrY	4867799	.	G	A	882.93	PASS	AC=6;AF=0.086;AN=70;DP=511;FS=0.000;Inbre
2092	chrY	4869764	.	G	T	1284.90	PASS	AC=6;AF=0.091;AN=66;DP=362;FS=0.000;Inbre
2093	chrY	4874629	.	C	T	5967.37	PASS	AC=56;AF=0.824;AN=68;DP=280;FS=0.000;Inbr
2094	chrY	4875190	.	A	C	31.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.980e-
2095	chrY	4875199	.	A	G	31.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
2096	chrY	4875320	.	A	G	186.04	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.678e+
2097	chrY	4876695	.	T	C	1242.59	PASS	AC=6;AF=0.088;AN=68;DP=350;FS=0.000;Inbre
2098	chrY	4878729	.	A	G	743.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-9.190e-
2099	chrY	4880990	.	A	C	33.08	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-5.720e-
2100	chrY	4881000	.	C	T	30.11	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-5.720e-
2101	chrY	4886645	.	C	A	378.58	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-6.000e-
2102	chrY	4890141	.	C	T	12171.93	PASS	AC=70;AF=1.00;AN=70;DP=417;FS=0.000
2103	chrY	4891313	.	T	C	4356.71	PASS	AC=50;AF=0.735;AN=68;DP=281;FS=0.000;Inbr
2104	chrY	4895671	.	C	T	285.75	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=0.736;Cl
2105	chrY	4901576	.	C	T	2140.89	PASS	AC=18;AF=1.00;AN=18;DP=91;FS=0.000;MLEAC=
2106	chrY	4904399	.	T	C	3610.28	PASS	AC=45;AF=0.682;AN=66;BaseQRankSum=0.731;C
2107	chrY	4905277	.	A	T	516.38	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=0.456;Cl
2108	chrY	4909304	.	C	G	293.34	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-2.180e+
2109	chrY	4909318	.	G	C	262.52	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-6.700e-
2110	chrY	4909353	.	T	C	136.78	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.032e+
2111	chrY	4909354	.	G	A	137.65	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=1.30;Cli
2112	chrY	4909365	.	G	T	94.92	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.65;Cli
2113	chrY	4909370	.	G	A	87.18	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.809;Cl
2114	chrY	4909486	.	A	T	118.30	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=0.718;Cl
2115	chrY	4917915	.	G	T	4152.07	PASS	AC=48;AF=0.727;AN=66;DP=287;FS=0.000;Inbr
2116	chrY	4920762	.	A	G	2821.56	PASS	AC=42;AF=0.700;AN=60;DP=250;FS=0.000;Inbr
2117	chrY	4928191	.	G	T	83.89	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.736;Cl
2118	chrY	4928622	.	T	C	559.06	PASS	AC=14;AF=0.389;AN=36;DP=128;FS=0.000;Inbr
2119	chrY	4934022	.	C	T	1386.24	PASS	AC=6;AF=0.088;AN=68;DP=283;FS=0.000;Inbre
2120	chrY	4934549	.	A	T	1295.12	PASS	AC=6;AF=0.086;AN=70;DP=299;FS=0.000;Inbre
2121	chrY	4937735	.	G	C	276.70	PASS	AC=6;AF=0.158;AN=38;DP=144;FS=0.000;Inbre
2122	chrY	4939870	.	C	T	8283.13	PASS	AC=66;AF=1.00;AN=66;DP=291;FS=0.000;Inbre
2123	chrY	4943364	.	G	C	203.47	PASS	AC=2;AF=0.034;AN=58;DP=161;FS=0.000;Inbre
2124	chrY	4943702	.	G	A	1074.02	PASS	AC=6;AF=0.086;AN=70;DP=307;FS=0.000;Inbre
2125	chrY	4945246	.	C	A	372.85	PASS	AC=2;AF=0.029;AN=68;DP=194;FS=0.000;Inbre
2126	chrY	4955162	.	A	G	13662.80	PASS	AC=46;AF=0.657;AN=70;DP=627;FS=0.000
2127	chrY	4955528	.	C	T	1279.08	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-4.340e-
2128	chrY	4957120	.	T	C	7364	PASS	AC=61;AF=0.984;AN=62;BaseQRankSum=-7.420e-

2129	chrY	4960392	.	G	A	816.60	PASS	AC=6;AF=0.086;AN=70;DP=493;FS=0.000;Inbre
2130	chrY	4961905	.	G	A	232.98	PASS	AC=2;AF=0.029;AN=70;DP=311;FS=0.000;Inbre
2131	chrY	4962580	.	A	T	807.63	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-4.960e-
2132	chrY	4963906	.	A	G	31.65	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-9.220e-
2133	chrY	4965038	.	A	G	3122.23	PASS	AC=46;AF=1.00;AN=46;DP=119;FS=0.000;Inbre
2134	chrY	4968368	.	G	T	7063.10	PASS	AC=60;AF=1.00;AN=60;BaseQRankSum=1.40;Cli
2135	chrY	4968655	.	T	G	9146.09	PASS	AC=64;AF=1.00;AN=64;DP=296;FS=0.000;Inbre
2136	chrY	4970060	.	C	T	508.47	PASS	AC=2;AF=0.029;AN=70;DP=379;FS=0.000;Inbre
2137	chrY	4975602	.	G	C	4949.77	PASS	AC=46;AF=0.793;AN=58;DP=289;FS=0.000;Inbr
2138	chrY	4975826	.	T	C	521.76	PASS	AC=4;AF=0.069;AN=58;DP=210;FS=0.000;Inbre
2139	chrY	4975828	.	T	C	520.35	PASS	AC=4;AF=0.069;AN=58;DP=207;FS=0.000;Inbre
2140	chrY	4975960	.	C	T	53.89	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=2.08;Cli
2141	chrY	4975963	.	G	A	52.13	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=-2.205e+
2142	chrY	4975972	.	C	T	54.28	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-7.640e-
2143	chrY	4976064	.	C	T	85.31	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=0.720;Cl
2144	chrY	4976524	.	T	C	285.27	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.139;Cl
2145	chrY	4976534	.	A	T	241.85	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=2.25;Cli
2146	chrY	4976541	.	T	C	162.54	PASS	AC=4;AF=0.063;AN=64;DP=231;FS=0.000;Inbre
2147	chrY	4976705	.	A	G	584.68	PASS	AC=6;AF=0.300;AN=20;DP=89;FS=0.000;Inbre
2148	chrY	4976706	.	C	T	588.36	PASS	AC=6;AF=0.300;AN=20;DP=87;FS=0.000;Inbre
2149	chrY	4978496	.	A	T	842.01	PASS	AC=6;AF=0.150;AN=40;DP=160;FS=0.000;Inbre
2150	chrY	4980827	.	A	G	42.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2151	chrY	4981239	.	G	A	327.83	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=2.00;Cli
2152	chrY	4983355	.	A	G	797.07	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-4.340e-
2153	chrY	4983598	.	G	A	40.72	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.026e+
2154	chrY	4983606	.	A	G	41.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.026e+
2155	chrY	4983844	.	C	T	1791.48	PASS	AC=16;AF=0.889;AN=18;BaseQRankSum=2.00;Cl
2156	chrY	4985903	.	T	C	117.08	PASS	AC=4;AF=0.222;AN=18;DP=24;FS=0.000;MLEAC=
2157	chrY	4987221	.	G	A	70.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2158	chrY	4989199	.	C	G	3749.21	PASS	AC=32;AF=1.00;AN=32;DP=165;FS=0.000;Inbre
2159	chrY	4994974	.	G	A	603.04	PASS	AC=6;AF=0.086;AN=70;DP=254;FS=0.000;Inbre
2160	chrY	4997166	.	C	A	37.47	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.231e+
2161	chrY	4997172	.	C	A	37.67	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-3.580e-
2162	chrY	4997440	.	C	T	1102.21	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=1.27;Cl
2163	chrY	5000942	.	T	C	903.81	PASS	AC=6;AF=0.103;AN=58;DP=208;FS=0.000;Inbre
2164	chrY	5005053	.	C	A	5275.19	PASS	AC=44;AF=1.00;AN=44;DP=201;FS=0.000;Inbre
2165	chrY	5006965	.	A	T	2659.17	PASS	AC=38;AF=0.655;AN=58;DP=243;FS=0.000;Inbr
2166	chrY	5007379	.	A	G	40.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2167	chrY	5007935	.	A	C	2434.87	PASS	AC=18;AF=1.00;AN=18;DP=107;FS=0.000;MLEAC
2168	chrY	5009348	.	C	T	90.55	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2169	chrY	5009382	.	A	G	185.56	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2170	chrY	5009445	.	C	A	216.33	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-2.083e+
2171	chrY	5012892	.	G	A	3665.07	PASS	AC=24;AF=1.00;AN=24;DP=149;FS=0.000;Inbre
2172	chrY	5014630	.	C	T	102.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=3.44;Cli
2173	chrY	5015151	.	C	T	103.07	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=1.75;Cli
2174	chrY	5015450	.	C	A	10775.98	PASS	AC=66;AF=1.00;AN=66;DP=379;FS=0.000;Inbr
2175	chrY	5015966	.	C	A	378.27	PASS	AC=2;AF=0.029;AN=70;DP=381;FS=0.000;Inbre
2176	chrY	5017198	.	T	C	1932.46	PASS	AC=30;AF=0.556;AN=54;DP=219;FS=0.000;Inbr
2177	chrY	5018300	.	A	C	139.64	PASS	AC=2;AF=0.034;AN=58;DP=165;FS=0.000;Inbre
2178	chrY	5018545	.	C	G	916.61	PASS	AC=6;AF=0.086;AN=70;DP=494;FS=0.000;Inbre
2179	chrY	5022234	.	G	A	156.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.731;Cl
2180	chrY	5025819	.	G	A	1080.44	PASS	AC=6;AF=0.086;AN=70;DP=564;FS=0.000;Inbre
2181	chrY	5026636	.	G	A	62.20	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=2.18;Cli
2182	chrY	5028342	.	C	T	379.90	PASS	AC=4;AF=0.061;AN=66;DP=224;FS=0.000;Inbre
2183	chrY	5031687	.	A	G	1286.96	PASS	AC=6;AF=0.086;AN=70;DP=442;FS=0.000;Inbre
2184	chrY	5035553	.	T	C	405.27	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-1.160e-
2185	chrY	5039264	.	A	C	68.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.055e+
2186	chrY	5039469	.	G	T	968.27	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.02;Cl
2187	chrY	5039631	.	C	T	1456.89	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-5.720e-
2188	chrY	5040012	.	T	C	117.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.06;Cli
2189	chrY	5044438	.	A	G	84.31	PASS	AC=2;AF=0.032;AN=62;DP=265;FS=0.000;Inbre
2190	chrY	5047618	.	C	T	155.84	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.25;Cli
2191	chrY	5047690	.	G	T	122.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.30;Cli
2192	chrY	5050520	.	C	T	44.88	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2193	chrY	5050804	.	A	G	849.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.340e-
2194	chrY	5051998	.	A	G	1675.96	PASS	AC=28;AF=0.700;AN=40;DP=160;FS=0.000;Inbr
2195	chrY	5055812	.	G	A	95.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.67;Cli
2196	chrY	5055987	.	A	G	180.21	PASS	AC=2;AF=0.029;AN=68;DP=558;FS=0.000;Inbre
2197	chrY	5056411	.	A	G	5315.34	PASS	AC=52;AF=1.00;AN=52;DP=241;FS=0.000;Inbre
2198	chrY	5056960	.	G	T	255.30	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.27;Cli
2199	chrY	5057534	.	A	C	5045.11	PASS	AC=48;AF=0.800;AN=60;DP=249;FS=0.000;Inbr
2200	chrY	5061189	.	T	C	7120.05	PASS	AC=54;AF=1.00;AN=54;DP=261;FS=0.000;Inbre
2201	chrY	5064680	.	G	C	323.84	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=2.40;Cli
2202	chrY	5065868	.	G	T	30.10	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=0.480;Cl
2203	chrY	5065876	.	G	T	52.59	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.898;Cl
2204	chrY	5065884	.	G	T	63.29	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-7.360e-

2205	chrY	5065885	.	G	A	53.42	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-7.150e-
2206	chrY	5067905	.	C	T	1318.89	PASS	AC=6;AF=0.086;AN=70;DP=444;FS=0.000;Inbre
2207	chrY	5071123	.	T	G	90.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.28;Cli
2208	chrY	5071339	.	A	G	2700.26	PASS	AC=32;AF=1.00;AN=32;BaseQRankSum=1.45;Cli
2209	chrY	5074444	.	A	G	995.67	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=-1.552e+
2210	chrY	5076531	.	C	T	83.25	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.803;Cl
2211	chrY	5076539	.	A	G	89.02	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.858e+
2212	chrY	5076828	.	A	G	209.39	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=-1.380e+
2213	chrY	5078183	.	A	G	323.40	PASS	AC=2;AF=0.029;AN=70;DP=336;FS=0.000;Inbre
2214	chrY	5078642	.	C	T	314.01	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=0.410;Cl
2215	chrY	5081233	.	G	A	3312.56	PASS	AC=20;AF=0.909;AN=22;DP=132;FS=0.000;Inbr
2216	chrY	5085067	.	G	A	132.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.45;Cli
2217	chrY	5085904	.	A	G	234.93	PASS	AC=2;AF=0.029;AN=68;DP=375;FS=0.000;Inbre
2218	chrY	5086303	.	C	T	1182.57	PASS	AC=6;AF=0.086;AN=70;DP=321;FS=0.000;Inbre
2219	chrY	5086909	.	T	C	33.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2220	chrY	5087053	.	A	G	63.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2221	chrY	5087118	.	T	C	87.68	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-5.460e-
2222	chrY	5095644	.	C	T	295.91	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-5.700e-
2223	chrY	5101719	.	A	G	4981.38	PASS	AC=60;AF=1.00;AN=60;DP=194;FS=0.000;Inbre
2224	chrY	5110314	.	T	G	144.15	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=1.03;Cli
2225	chrY	5110349	.	A	G	500.30	PASS	AC=14;AF=0.389;AN=36;DP=159;FS=0.000;Inbr
2226	chrY	5110830	.	A	T	941.36	PASS	AC=6;AF=0.088;AN=68;DP=284;FS=0.000;Inbre
2227	chrY	5111430	.	C	T	953.12	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.67;Cli
2228	chrY	5111786	.	A	G	751.31	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-5.600e-
2229	chrY	5112302	.	G	A	1520.08	PASS	AC=6;AF=0.088;AN=68;DP=331;FS=0.000;Inbre
2230	chrY	5112966	.	G	T	78.95	PASS	AC=2;AF=0.032;AN=62;DP=202;FS=0.000;Inbre
2231	chrY	5114140	.	G	A	43.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.360e-
2232	chrY	5114142	.	T	A	43.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.360e-
2233	chrY	5114150	.	A	G	44.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.360e-
2234	chrY	5114698	.	A	G	531.19	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=1.03;Cli
2235	chrY	5114902	.	A	G	70.56	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQRankSum=
2236	chrY	5121220	.	C	G	87.16	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=-1.820e-
2237	chrY	5122318	.	A	G	378.12	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-2.170e-
2238	chrY	5122331	.	C	T	132.59	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.727;Cl
2239	chrY	5123392	.	T	A	470.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.736;Cl
2240	chrY	5123560	.	A	T	572.76	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
2241	chrY	5128384	.	G	A	631.79	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=2.15;Cli
2242	chrY	5128781	.	T	C	76.49	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2243	chrY	5128791	.	T	A	2326.15	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.080;Cl
2244	chrY	5130967	.	A	T	88.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.650e-
2245	chrY	5130971	.	C	T	88.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.283e+
2246	chrY	5132431	.	G	C	664.21	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.00;Cli
2247	chrY	5132705	.	C	T	78.87	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=0.358;Cl
2248	chrY	5134289	.	G	A	210.30	PASS	AC=2;AF=0.029;AN=68;DP=287;FS=0.000;Inbre
2249	chrY	5135765	.	C	A	166.23	PASS	AC=4;AF=0.069;AN=58;DP=223;FS=0.000;Inbre
2250	chrY	5135960	.	C	T	215.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.25;Cli
2251	chrY	5136277	.	A	T	133.87	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=-1.750e-
2252	chrY	5136311	.	A	T	78.53	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQRankSum=
2253	chrY	5137411	.	G	C	178.45	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
2254	chrY	5137794	.	T	C	404.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.584;Cl
2255	chrY	5137799	.	A	G	404.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.761;Cl
2256	chrY	5138593	.	G	T	48.49	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
2257	chrY	5139407	.	A	G	278.14	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.278e+
2258	chrY	5139530	.	A	T	655.72	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=-4.100e-
2259	chrY	5139674	.	G	A	2011.31	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.020;C
2260	chrY	5139929	.	T	G	189.42	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQRankSum=
2261	chrY	5143006	.	C	T	71.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.420e-
2262	chrY	5147169	.	C	T	827.42	PASS	AC=6;AF=0.094;AN=64;DP=186;FS=0.000;Inbre
2263	chrY	5149801	.	A	G	184.65	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-6.330e-
2264	chrY	5150478	.	G	T	464.15	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.73;Cli
2265	chrY	5150815	.	A	G	58.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.500e-
2266	chrY	5154147	.	C	T	958.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.423;Cl
2267	chrY	5157397	.	A	G	38.38	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2268	chrY	5158985	.	T	A	218.11	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=0.127;Cl
2269	chrY	5161936	.	G	C	3713.43	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=0.934;C
2270	chrY	5163631	.	T	C	97.12	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.003e+
2271	chrY	5163935	.	T	C	1583	PASS	AC=6;AF=0.086;AN=70;DP=406;FS=0.000;Inbre
2272	chrY	5164827	.	G	A	9334.29	PASS	AC=46;AF=0.657;AN=70;DP=490;FS=0.000;Inbr
2273	chrY	5165705	.	A	G	65.53	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
2274	chrY	5166408	.	G	A	10220.51	PASS	AC=64;AF=0.970;AN=66;BaseQRankSum=
2275	chrY	5166634	.	T	C	5703.33	PASS	AC=46;AF=0.719;AN=64;DP=329;FS=0.000;Inbr
2276	chrY	5168299	.	A	G	1063.13	PASS	AC=6;AF=0.088;AN=68;DP=291;FS=0.000;Inbre
2277	chrY	5169277	.	T	C	38.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2278	chrY	5170131	.	T	C	1398.38	PASS	AC=34;AF=0.654;AN=52;DP=186;FS=0.000;Inbr
2279	chrY	5170984	.	A	G	1162.80	PASS	AC=20;AF=0.526;AN=38;DP=175;FS=0.000;Inbr
2280	chrY	5173299	.	A	G	34.52	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e+

2281	chrY	5173321	.	C	T	40.50	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.026e+
2282	chrY	5174709	.	T	C	637.59	PASS	AC=6;AF=0.091;AN=66;DP=297;FS=0.000;Inbre
2283	chrY	5177713	.	T	C	176.37	PASS	AC=2;AF=0.029;AN=70;DP=472;FS=0.000;Inbre
2284	chrY	5178233	.	C	T	674.43	PASS	AC=6;AF=0.111;AN=54;DP=176;FS=0.000;Inbre
2285	chrY	5194431	.	A	G	1093.18	PASS	AC=6;AF=0.333;AN=18;DP=165;FS=0.000;MLEAC
2286	chrY	5195236	.	C	G	9208.19	PASS	AC=46;AF=0.657;AN=70;DP=501;FS=0.000;Inbr
2287	chrY	5195386	.	C	T	1047.30	PASS	AC=20;AF=0.476;AN=42;DP=206;FS=0.000;Inbr
2288	chrY	5198181	.	A	G	387.66	PASS	AC=6;AF=0.300;AN=20;DP=138;FS=0.000;Inbre
2289	chrY	5200023	.	C	T	1210.27	PASS	AC=6;AF=0.091;AN=66;DP=449;FS=0.000;Inbre
2290	chrY	5206937	.	A	G	5727.02	PASS	AC=50;AF=0.806;AN=62;DP=336;FS=0.000;Inb
2291	chrY	5209002	.	G	A	306.46	PASS	AC=2;AF=0.029;AN=70;DP=419;FS=0.000;Inbre
2292	chrY	5209769	.	A	G	95.09	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=2.05;Cli
2293	chrY	5210576	.	C	T	495.18	PASS	AC=2;AF=0.029;AN=70;DP=531;FS=0.000;Inbre
2294	chrY	5211395	.	C	T	1612.62	PASS	AC=12;AF=0.375;AN=32;BaseQRankSum=1.61;Cl
2295	chrY	5211589	.	C	A	868.20	PASS	AC=6;AF=0.333;AN=18;DP=129;FS=0.000;MLEAC
2296	chrY	5216415	.	C	T	214.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.708;Cl
2297	chrY	5220413	.	T	G	3121.25	PASS	AC=42;AF=0.636;AN=66;DP=239;FS=0.000;Inbr
2298	chrY	5221425	.	C	T	39.57	PASS	AC=2;AF=0.037;AN=54;DP=189;FS=0.000;Inbre
2299	chrY	5224862	.	A	G	1558.08	PASS	AC=20;AF=1.00;AN=20;DP=74;FS=0.000;Inbre
2300	chrY	5226695	.	G	C	130.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.39;Cli
2301	chrY	5226699	.	C	T	136.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-4.100e-
2302	chrY	5226724	.	A	G	39.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.800e-
2303	chrY	5226725	.	A	G	39.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.180e+
2304	chrY	5226729	.	T	C	39.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-8.390e-
2305	chrY	5226731	.	T	C	37.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.118;Cl
2306	chrY	5226738	.	A	G	40.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.800e-
2307	chrY	5226744	.	A	G	39.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.180e-
2308	chrY	5226746	.	G	C	42.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.237;Cl
2309	chrY	5226748	.	T	C	37.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.180e-
2310	chrY	5226759	.	T	G	36.98	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2311	chrY	5226825	.	C	T	55.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.340e-
2312	chrY	5226830	.	C	G	56.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.335e+
2313	chrY	5228328	.	T	C	30.83	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.720;Cl
2314	chrY	5230639	.	G	A	770.92	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=1.48;Cli
2315	chrY	5231564	.	A	G	6324.93	PASS	AC=46;AF=0.657;AN=70;DP=366;FS=0.000;Inbr
2316	chrY	5240956	.	T	C,*	1014.35	PASS	AC=6,4;AF=0.600,0.400;AN=10;BaseQRankSum=
2317	chrY	5241129	.	C	T	58.10	PASS	AC=2;AF=0.111;AN=18;DP=58;FS=0.000;MLEAC=
2318	chrY	5241133	.	C	T	58.49	PASS	AC=2;AF=0.111;AN=18;DP=57;FS=0.000;MLEAC=
2319	chrY	5241137	.	C	T	59.16	PASS	AC=2;AF=0.111;AN=18;DP=51;FS=0.000;MLEAC=
2320	chrY	5241141	.	C	T	56.69	PASS	AC=2;AF=0.111;AN=18;DP=52;FS=0.000;MLEAC=
2321	chrY	5241773	.	A	G	122.12	PASS	AC=4;AF=0.071;AN=56;DP=141;FS=0.000;Inbre
2322	chrY	5241907	.	T	C	257.26	PASS	AC=2;AF=0.029;AN=68;DP=278;FS=0.000;Inbre
2323	chrY	5246747	.	T	C	1088.50	PASS	AC=6;AF=0.094;AN=64;DP=287;FS=0.000;Inbre
2324	chrY	5252998	.	C	A	412.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.747;Cl
2325	chrY	5253957	.	T	C	146.44	PASS	AC=2;AF=0.029;AN=70;DP=430;FS=0.000;Inbre
2326	chrY	5258790	.	G	C	561.58	PASS	AC=6;AF=0.086;AN=70;DP=411;FS=0.000;Inbre
2327	chrY	5259553	.	G	A	1170.84	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=0.639;Cl
2328	chrY	5259908	.	T	A	286.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.934;Cl
2329	chrY	5259932	.	C	G	336.83	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-5.970e-
2330	chrY	5260032	.	G	A	59.03	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=1.67;Cli
2331	chrY	5261767	.	C	T	242.89	PASS	AC=4;AF=0.067;AN=60;DP=142;FS=0.000;Inbre
2332	chrY	5262270	.	C	T	55.61	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2333	chrY	5262529	.	C	T	1739.27	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.922;C
2334	chrY	5263891	.	G	C	70.62	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=2.42;Cli
2335	chrY	5263976	.	T	C	91.83	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=0.742;Cl
2336	chrY	5264057	.	T	A	191.26	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=0.406;Cl
2337	chrY	5264088	.	G	A	664.70	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-9.350e-
2338	chrY	5264107	.	G	C	830.58	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-1.555e+
2339	chrY	5264182	.	T	C	592.26	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-1.777e+
2340	chrY	5264186	.	A	T	177.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.272;Cl
2341	chrY	5264274	.	C	G	863.16	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=-2.398e+
2342	chrY	5264285	.	T	C	861.18	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=-2.599e+
2343	chrY	5264335	.	G	A	299.78	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.64;Cli
2344	chrY	5264429	.	A	G	118.65	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
2345	chrY	5264527	.	C	G	175.35	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
2346	chrY	5265422	.	T	C	129.05	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=0.922;Cl
2347	chrY	5266407	.	A	G	841.76	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=-8.500e-
2348	chrY	5266976	.	A	G	1244.70	PASS	AC=6;AF=0.086;AN=70;DP=243;FS=0.000;Inbre
2349	chrY	5268062	.	C	T	1379.03	PASS	AC=6;AF=0.088;AN=68;DP=296;FS=0.000;Inbre
2350	chrY	5268320	.	G	A	117.95	PASS	AC=2;AF=0.056;AN=36;DP=178;FS=0.000;Inbre
2351	chrY	5272101	.	G	A	80.05	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.922;Cl
2352	chrY	5273555	.	C	T	246.83	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=2.48;Cli
2353	chrY	5273889	.	G	T	337.91	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.942;Cl
2354	chrY	5275698	.	T	A	148.83	PASS	AC=2;AF=0.034;AN=58;DP=196;FS=0.000;Inbre
2355	chrY	5275721	.	A	G	859.96	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=-2.318e+
2356	chrY	5276053	.	G	A	566.63	PASS	AC=2;AF=0.029;AN=70;DP=433;FS=0.000;Inbre

2357	chrY	5276161	.	T	C	1899.39	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-1.199e
2358	chrY	5276400	.	C	A	67.63	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=2.10;Cli
2359	chrY	5277726	.	C	T	53.90	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2360	chrY	5278135	.	G	A	387.47	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.248;Cl
2361	chrY	5278710	.	A	G	370.20	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
2362	chrY	5278775	.	A	G	108.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.69;Cli
2363	chrY	5279012	.	T	C	8035.34	PASS	AC=46;AF=0.657;AN=70;DP=495;FS=0.000;Inbr
2364	chrY	5279901	.	C	T	1558.90	PASS	AC=6;AF=0.086;AN=70;DP=717;FS=0.000;Inbre
2365	chrY	5281438	.	T	C	85.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.009e+
2366	chrY	5281445	.	A	C	82.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.920e
2367	chrY	5281446	.	G	A	82.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.050;Cl
2368	chrY	5281448	.	C	T	86.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.500e-
2369	chrY	5281457	.	T	G	88.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.265;Cl
2370	chrY	5281459	.	T	C	88.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.960e-
2371	chrY	5281462	.	C	T	86.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
2372	chrY	5281465	.	T	G	85.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.030e-
2373	chrY	5281466	.	A	G	85.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.962;Cl
2374	chrY	5281468	.	T	C	89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.300e-
2375	chrY	5284138	.	T	A	7914.92	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum=0.736;C
2376	chrY	5285896	.	T	C	791.15	PASS	AC=6;AF=0.091;AN=66;DP=208;FS=0.000;Inbre
2377	chrY	5293365	.	T	C	32.21	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.736;Cl
2378	chrY	5293609	.	C	G	33.24	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
2379	chrY	5293923	.	T	G	971.82	PASS	AC=6;AF=0.103;AN=58;DP=195;FS=0.000;Inbre
2380	chrY	5294712	.	C	T	487.99	PASS	AC=14;AF=0.368;AN=38;BaseQRankSum=0.736;C
2381	chrY	5294757	.	G	A	254.44	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=-7.270e-
2382	chrY	5297176	.	G	A	98.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.382;Cl
2383	chrY	5298208	.	A	C	3023.64	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-9.060e
2384	chrY	5298221	.	C	G	458.12	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.727;Cl
2385	chrY	5298293	.	T	C	179.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.55;Cli
2386	chrY	5302847	.	C	T	176.46	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=2.10;Cli
2387	chrY	5303229	.	A	G	178.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
2388	chrY	5304628	.	G	C	510.59	PASS	AC=6;AF=0.086;AN=70;DP=446;FS=0.000;Inbre
2389	chrY	5308865	.	G	A	70.44	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.876;Cl
2390	chrY	5308974	.	G	A	199.82	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.03;Cli
2391	chrY	5309358	.	T	A	40.19	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.026e+
2392	chrY	5309555	.	T	C	49.52	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=1.21;Cli
2393	chrY	5309717	.	A	G	131.11	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.658;Cl
2394	chrY	5310049	.	C	T	140.74	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.600;Cl
2395	chrY	5310084	.	T	C	142.30	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=-1.182e+
2396	chrY	5313019	.	G	A	75.19	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
2397	chrY	5313053	.	G	T	202.45	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=1.40;Cli
2398	chrY	5316065	.	T	C	83.53	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.090e-
2399	chrY	5317066	.	T	C	165.27	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.421;Cl
2400	chrY	5320617	.	T	G	293.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.054e+
2401	chrY	5323138	.	A	G	54.31	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2402	chrY	5325562	.	G	T	48.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.54;Cli
2403	chrY	5325662	.	T	C	426.33	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-2.025e+
2404	chrY	5325721	.	C	T	97.59	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.22;Cli
2405	chrY	5326721	.	C	T	313.58	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.277;Cl
2406	chrY	5331974	.	G	A	155.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.03;Cli
2407	chrY	5333890	.	T	G	1027.28	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-4.340e-
2408	chrY	5334036	.	T	A	243.07	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.550;Cl
2409	chrY	5334953	.	T	G	271.25	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=1.03;Cli
2410	chrY	5335042	.	T	C	721.26	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-4.210e-
2411	chrY	5335057	.	T	C	681.09	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-1.026e+
2412	chrY	5335069	.	A	C	492.65	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=0.358;Cl
2413	chrY	5335081	.	T	A	499.24	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=1.23;Cli
2414	chrY	5335300	.	G	A	195.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.988;Cl
2415	chrY	5336063	.	A	C	31.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.358;Cl
2416	chrY	5337678	.	A	T	102.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.061;Cl
2417	chrY	5338026	.	C	A	2128.88	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.00;Cl
2418	chrY	5338261	.	C	G	228.93	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-1.926e+
2419	chrY	5342248	.	G	A	628.81	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=2.61;Cli
2420	chrY	5343883	.	T	C	3601.05	PASS	AC=24;AF=1.00;AN=24;DP=154;FS=0.000;Inbre
2421	chrY	5344531	.	T	C	239.46	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=-7.310e-
2422	chrY	5344623	.	G	C	372.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.04;Cli
2423	chrY	5345475	.	G	A	1338.77	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=1.53;Cli
2424	chrY	5345986	.	A	T	63.51	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2425	chrY	5345994	.	A	T	103.66	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=2.55;Cli
2426	chrY	5346098	.	A	G	297.35	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=0.540;Cl
2427	chrY	5346296	.	T	C	70.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.405;Cl
2428	chrY	5346513	.	G	T	35.06	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.531e+
2429	chrY	5350604	.	G	T	7476.13	PASS	AC=50;AF=0.735;AN=68;DP=401;FS=0.000;Inbr
2430	chrY	5358659	.	G	C	197.90	PASS	AC=2;AF=0.029;AN=68;DP=278;FS=0.000;Inbre
2431	chrY	5359089	.	G	C	1299.55	PASS	AC=6;AF=0.088;AN=68;DP=412;FS=0.000;Inbre
2432	chrY	5364092	.	G	C	39.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.537e+

2433	chrY	5366381	.	A	G	116.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.42;Cli
2434	chrY	5366445	.	A	G	227.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-3.650e-
2435	chrY	5366640	.	T	G	198.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.397;Cl
2436	chrY	5366649	.	G	A	215.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.426;Cl
2437	chrY	5366840	.	T	C	369.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.327e+
2438	chrY	5366960	.	A	G	57.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.383e+
2439	chrY	5370698	.	T	C	876.09	PASS	AC=6;AF=0.091;AN=66;DP=334;FS=0.000;Inbre
2440	chrY	5371849	.	T	C	62.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.668e+
2441	chrY	5371937	.	T	G	123.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.20;Cli
2442	chrY	5377091	.	T	A	67.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.573;Cl
2443	chrY	5377471	.	A	G	344.66	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-3.010e-
2444	chrY	5377803	.	G	A	442.95	PASS	AC=2;AF=0.167;AN=36;BaseQRankSum=1.11;Cli
2445	chrY	5377909	.	T	C	266.85	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=-2.266e+
2446	chrY	5377938	.	T	C	488	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=-7.200e-
2447	chrY	5378471	.	A	G	417.91	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=0.135;Cl
2448	chrY	5378905	.	A	G	143.37	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.978;Cl
2449	chrY	5381038	.	G	A	104.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.98;Cli
2450	chrY	5381063	.	T	G	136.09	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=-5.270e-
2451	chrY	5381372	.	C	A	247.14	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=-1.246e+
2452	chrY	5382462	.	C	A	148.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.113;Cl
2453	chrY	5385314	.	G	A	387.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.28;Cli
2454	chrY	5385331	.	T	C	408.10	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.676e+
2455	chrY	5386209	.	T	C	791.36	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQRankSum=
2456	chrY	5387356	.	A	G	92.27	PASS	AC=2;AF=0.050;AN=40;DP=112;FS=0.000;Inbre
2457	chrY	5387427	.	T	A	37.69	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-1.380e+
2458	chrY	5387622	.	T	A	60.49	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.429;Cl
2459	chrY	5387701	.	T	C	108.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2460	chrY	5388069	.	A	G	64.35	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=-7.360e-
2461	chrY	5389482	.	G	C	995.64	PASS	AC=6;AF=0.097;AN=62;DP=230;FS=0.000;Inbre
2462	chrY	5389615	.	G	A	1449.44	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=0.347;Cl
2463	chrY	5392009	.	C	T	75.93	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=0.305;Cl
2464	chrY	5392022	.	G	A	302.13	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=3.81;Cli
2465	chrY	5392054	.	A	G	316.84	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-2.543e+
2466	chrY	5392134	.	G	T	908.46	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.31;Cli
2467	chrY	5392204	.	A	C	77.62	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
2468	chrY	5392287	.	G	A	5073.80	PASS	AC=50;AF=0.735;AN=68;DP=319;FS=0.000;Inbr
2469	chrY	5393186	.	G	A	9792.01	PASS	AC=62;AF=1.00;AN=62;DP=244;FS=0.000;Inbre
2470	chrY	5393198	.	G	A	8429.03	PASS	AC=58;AF=1.00;AN=58;DP=196;FS=0.000;Inbre
2471	chrY	5394326	.	G	T	55.92	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.75;Cli
2472	chrY	5395573	.	G	A	901	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=2.55;Cli
2473	chrY	5400013	.	G	C	47.17	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2474	chrY	5403822	.	T	C	282.48	PASS	AC=4;AF=0.065;AN=62;DP=229;FS=0.000;Inbre
2475	chrY	5403925	.	C	T	363.89	PASS	AC=2;AF=0.067;AN=30;DP=147;FS=0.000;Inbre
2476	chrY	5406828	.	T	C	270.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.755e+
2477	chrY	5407406	.	A	G	203.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.220e-
2478	chrY	5408743	.	A	T	203.63	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.071;Cl
2479	chrY	5408786	.	A	C	3027.20	PASS	AC=28;AF=0.438;AN=64;BaseQRankSum=0.358;C
2480	chrY	5408825	.	T	A	1262.90	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=-4.800e
2481	chrY	5408906	.	T	G	548.32	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=0.660;Cl
2482	chrY	5409139	.	A	T	446.02	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.762;Cl
2483	chrY	5409996	.	G	C	694.99	PASS	AC=6;AF=0.086;AN=70;DP=391;FS=0.000;Inbre
2484	chrY	5410914	.	A	G	675.84	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.21;Cl
2485	chrY	5410968	.	T	C	1008.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.199e+
2486	chrY	5411068	.	A	G	530.20	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-2.120e-
2487	chrY	5411321	.	A	C	61.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.610e-
2488	chrY	5411341	.	C	A	8320	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=1.58;Cli
2489	chrY	5411547	.	A	G	289.51	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-4.120e-
2490	chrY	5412228	.	G	A	6885.18	PASS	AC=60;AF=1.00;AN=60;DP=243;FS=0.000;Inbre
2491	chrY	5412408	.	G	T	153.75	PASS	AC=2;AF=0.029;AN=68;DP=309;FS=0.000;Inbre
2492	chrY	5414404	.	T	C	36.07	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.380e+
2493	chrY	5414418	.	T	C	35.39	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.380e+
2494	chrY	5415322	.	G	C,*	7825.79	PASS	AC=45,7;AF=0.833,0.130;AN=54;BaseQRankSum
2495	chrY	5418710	.	C	T	59.75	PASS	AC=2;AF=0.045;AN=44;DP=178;FS=0.000;Inbre
2496	chrY	5421066	.	G	A	2100.26	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-7.200e
2497	chrY	5421073	.	C	G	2206.36	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=0.572;Cl
2498	chrY	5421316	.	A	C	37.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.197;C
2499	chrY	5425400	.	T	G	826.37	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.123e+
2500	chrY	5429801	.	G	A	304.64	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.42;Cli
2501	chrY	5430637	.	C	T	600.42	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=0.747;Cl
2502	chrY	5431304	.	T	C	31.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2503	chrY	5432059	.	A	G	384.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.741e+
2504	chrY	5441527	.	T	C	77.09	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=1.82;Cli
2505	chrY	5441542	.	C	T	109.62	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=1.58;Cli
2506	chrY	5441546	.	A	C	214.58	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=-2.293e+
2507	chrY	5441549	.	T	A	252.43	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=-2.960e-
2508	chrY	5441552	.	A	G	245.32	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=-1.680e-

2509	chrY	5441577	.	C	T	211.17	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=-2.034e+
2510	chrY	5441580	.	C	G	212.18	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=-2.030e-
2511	chrY	5441595	.	T	C	81.61	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
2512	chrY	5441619	.	C	T	43.16	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2513	chrY	5442693	.	A	G	107.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.07;Cli
2514	chrY	5443524	.	T	A	7110.17	PASS	AC=62;AF=1.00;AN=62;BaseQRankSum=1.11;Cli
2515	chrY	5444803	.	C	T	1579.85	PASS	AC=6;AF=0.086;AN=70;DP=279;FS=0.000;Inbre
2516	chrY	5452253	.	T	G	4864.94	PASS	AC=46;AF=0.657;AN=70;DP=325;FS=0.000;Inbr
2517	chrY	5452402	.	A	G	1278.02	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-9.800e-
2518	chrY	5453123	.	A	T	3629.04	PASS	AC=26;AF=1.00;AN=26;DP=146;FS=0.000;Inbre
2519	chrY	5457572	.	C	T	44.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-8.000e-
2520	chrY	5457736	.	C	T	330.79	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-4.060e-
2521	chrY	5458035	.	G	T	1222.24	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.532;C
2522	chrY	5458626	.	G	C	994.98	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
2523	chrY	5458875	.	C	T	4782.49	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.467;C
2524	chrY	5458918	.	A	G	878.56	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
2525	chrY	5458959	.	T	C	125.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2526	chrY	5459014	.	G	A	186.45	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.170;Cl
2527	chrY	5464893	.	A	G	68.88	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-2.293e+
2528	chrY	5465148	.	A	G	8430.07	PASS	AC=68;AF=1.00;AN=68;DP=280;FS=0.000;Inbre
2529	chrY	5466618	.	T	C	60.47	PASS	AC=2;AF=0.029;AN=68;DP=265;FS=0.000;Inbre
2530	chrY	5469843	.	T	C	292.66	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.271e+
2531	chrY	5470944	.	T	C	217.93	PASS	AC=6;AF=0.231;AN=26;DP=39;FS=0.000;Inbre
2532	chrY	5471797	.	G	A	507.28	PASS	AC=2;AF=0.029;AN=70;DP=547;FS=0.000;Inbre
2533	chrY	5473702	.	A	G	37.07	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
2534	chrY	5473703	.	T	C	37.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
2535	chrY	5474604	.	C	G	120.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2536	chrY	5474635	.	A	C	973.27	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-4.129e+
2537	chrY	5474788	.	T	A	215.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.10;Cli
2538	chrY	5474838	.	G	C	1701.39	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=1.70;Cli
2539	chrY	5474949	.	C	A	1339.24	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
2540	chrY	5474977	.	C	T	114.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2541	chrY	5475000	.	A	G	74.13	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2542	chrY	5475033	.	C	T	178.06	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2543	chrY	5475054	.	G	T	93.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2544	chrY	5475085	.	G	T	384.79	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2545	chrY	5475431	.	G	T	210.97	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2546	chrY	5475445	.	C	T	464.31	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2547	chrY	5475455	.	T	C	390.57	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2548	chrY	5475635	.	T	A	47.57	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2549	chrY	5475644	.	G	A	53.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2550	chrY	5475645	.	T	A	52.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
2551	chrY	5475761	.	A	C	88.20	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2552	chrY	5476031	.	A	T	528.28	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQRankSum=
2553	chrY	5476527	.	G	A	145.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2554	chrY	5476999	.	G	A	294.44	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2555	chrY	5477341	.	G	A	168.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.20;Cli
2556	chrY	5477636	.	C	A	802.88	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=
2557	chrY	5477660	.	T	A	57.08	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
2558	chrY	5477715	.	A	G	576.24	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=1.84;Cli
2559	chrY	5479419	.	G	A	592.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2560	chrY	5479832	.	T	G	194.64	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
2561	chrY	5480537	.	C	T	966.87	PASS	AC=6;AF=0.094;AN=64;DP=261;FS=0.000;Inbre
2562	chrY	5482834	.	C	T	1169.49	PASS	AC=8;AF=0.400;AN=20;DP=147;FS=0.000;Inbre
2563	chrY	5483301	.	A	G	741.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.385;Cl
2564	chrY	5483473	.	G	A	768.51	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.00;Cl
2565	chrY	5483610	.	T	C	74.36	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-6.890e-
2566	chrY	5483618	.	C	A	71.16	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.05;Cli
2567	chrY	5483755	.	T	C	143.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.34;Cli
2568	chrY	5486366	.	G	C	160.46	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=0.736;Cl
2569	chrY	5486696	.	C	A	191.65	PASS	AC=4;AF=0.065;AN=62;DP=135;FS=0.000;Inbre
2570	chrY	5489307	.	G	A	56.16	PASS	AC=2;AF=0.037;AN=54;DP=218;FS=0.000;Inbre
2571	chrY	5490986	.	G	A	1206.40	PASS	AC=6;AF=0.130;AN=46;DP=188;FS=0.000;Inbre
2572	chrY	5491646	.	G	T	1005.54	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.747;Cl
2573	chrY	5492487	.	A	T	35.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.380e+
2574	chrY	5497431	.	G	A	589.08	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.589;C
2575	chrY	5497590	.	A	G	378.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.87;Cli
2576	chrY	5497651	.	G	A	216.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.170;Cl
2577	chrY	5499451	.	C	A	5371.20	PASS	AC=52;AF=0.813;AN=64;DP=300;FS=0.000;Inbr
2578	chrY	5502555	.	T	G	109.45	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.480;Cl
2579	chrY	5503178	.	G	T	5811.34	PASS	AC=40;AF=0.571;AN=70;DP=409;FS=0.000;Inbr
2580	chrY	5504458	.	T	C	166.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.03;Cli
2581	chrY	5505035	.	C	T	51.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2582	chrY	5509991	.	G	A	157.64	PASS	AC=2;AF=0.029;AN=68;DP=318;FS=0.000;Inbre
2583	chrY	5513838	.	C	A	42.51	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
2584	chrY	5513847	.	T	G	363.92	PASS	AC=2;AF=0.029;AN=70;DP=409;FS=0.000;Inbre

2585	chrY	5516782	.	C	G	1798.38	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=-7.310e
2586	chrY	5520604	.	A	G	257.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.85;Cli
2587	chrY	5521759	.	A	G	1229.28	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=0.529;Cl
2588	chrY	5525466	.	G	A	154.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.53;Cli
2589	chrY	5525823	.	A	G	86.18	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-9.190e-
2590	chrY	5526098	.	C	G	116.58	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2591	chrY	5526283	.	T	C	1544.35	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-2.010e
2592	chrY	5527703	.	G	A	9093.34	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum=0.747;C
2593	chrY	5529441	.	G	A	321.86	PASS	AC=2;AF=0.033;AN=60;DP=220;FS=0.000;Inbre
2594	chrY	5537166	.	T	A	1118.99	PASS	AC=6;AF=0.091;AN=66;DP=239;FS=0.000;Inbre
2595	chrY	5539494	.	G	C	173.54	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=0.158;Cl
2596	chrY	5540526	.	T	C	900.35	PASS	AC=6;AF=0.086;AN=70;DP=304;FS=0.000;Inbre
2597	chrY	5541777	.	A	G	338.37	PASS	AC=6;AF=0.086;AN=70;DP=259;FS=0.000;Inbre
2598	chrY	5543143	.	G	A	154.17	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.231e+
2599	chrY	5546876	.	G	A	892.67	PASS	AC=6;AF=0.086;AN=70;DP=508;FS=0.000;Inbre
2600	chrY	5548543	.	C	T	63.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.63;Cli
2601	chrY	5548997	.	T	C	52.81	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
2602	chrY	5549152	.	A	C	42.78	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
2603	chrY	5549568	.	T	C	37.46	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQRankSum=
2604	chrY	5549624	.	T	C	44.27	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2605	chrY	5550948	.	T	C	4922.26	PASS	AC=46;AF=1.00;AN=46;DP=191;FS=0.000;Inbre
2606	chrY	5551548	.	T	G	391.50	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.875e+
2607	chrY	5552404	.	T	G	36.18	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=1.03;Cli
2608	chrY	5552488	.	T	C	162.07	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-1.026e+
2609	chrY	5552714	.	C	T	350.67	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.780e-
2610	chrY	5554426	.	C	T	92.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.32;Cli
2611	chrY	5554449	.	C	T	239.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.64;Cli
2612	chrY	5554844	.	C	T	69.77	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
2613	chrY	5557995	.	T	A	1091.56	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=0.465;Cl
2614	chrY	5564152	.	A	T	6795.19	PASS	AC=44;AF=0.710;AN=62;DP=371;FS=0.000;Inbr
2615	chrY	5566334	.	T	C	401.04	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.225e+
2616	chrY	5566376	.	A	G	181.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.180e-
2617	chrY	5567387	.	A	G	16565.98	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
2618	chrY	5568496	.	C	T	117.97	PASS	AC=2;AF=0.029;AN=70;DP=727;FS=0.000;Inbre
2619	chrY	5568536	.	T	A	321.23	PASS	AC=2;AF=0.029;AN=70;DP=712;FS=0.000;Inbre
2620	chrY	5570756	.	G	C	1162.51	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-6.660e-
2621	chrY	5570889	.	C	T	852.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.009e+
2622	chrY	5570902	.	T	C	802.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.613;Cl
2623	chrY	5572302	.	G	A	208.26	PASS	AC=2;AF=0.030;AN=66;DP=263;FS=0.000;Inbre
2624	chrY	5573583	.	C	A	70.62	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.65;Cli
2625	chrY	5580667	.	A	G	142.80	PASS	AC=2;AF=0.033;AN=60;DP=246;FS=0.000;Inbre
2626	chrY	5582386	.	C	G	7789.36	PASS	AC=44;AF=0.647;AN=68;DP=447;FS=0.000;Inbr
2627	chrY	5583580	.	C	A	43.10	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
2628	chrY	5586914	.	T	C	33.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.38;Cli
2629	chrY	5588608	.	A	T	284.14	PASS	AC=2;AF=0.040;AN=50;DP=144;FS=0.000;Inbre
2630	chrY	5590152	.	C	T	52.38	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=2.10;Cli
2631	chrY	5590948	.	C	T	310.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.11;Cli
2632	chrY	5591951	.	C	T	48.20	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
2633	chrY	5592162	.	C	T	130.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.820e-
2634	chrY	5592218	.	G	A	33.68	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
2635	chrY	5592307	.	T	G	168.54	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=0.91;Cl
2636	chrY	5596723	.	A	G	676.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.734e+
2637	chrY	5597281	.	T	C	6101.19	PASS	AC=52;AF=0.813;AN=64;DP=335;FS=0.000;Inbr
2638	chrY	5598902	.	A	T	93.08	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
2639	chrY	5599503	.	T	C	6377.07	PASS	AC=40;AF=0.606;AN=66;BaseQRankSum=-1.085e
2640	chrY	5600977	.	A	G	670.43	PASS	AC=6;AF=0.094;AN=64;DP=285;FS=0.000;Inbre
2641	chrY	5601432	.	A	G	423.01	PASS	AC=2;AF=0.029;AN=68;DP=391;FS=0.000;Inbre
2642	chrY	5601486	.	G	A	1135.50	PASS	AC=6;AF=0.088;AN=68;DP=423;FS=0.000;Inbre
2643	chrY	5607448	.	T	C	3850.60	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=1.45;Cl
2644	chrY	5607951	.	C	T	190.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.83;Cli
2645	chrY	5607994	.	G	T	88.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2646	chrY	5608146	.	C	A	493.52	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=-3.480e-
2647	chrY	5608220	.	G	T	598.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-3.010e-
2648	chrY	5609405	.	T	C	4661.14	PASS	AC=62;AF=1.00;AN=62;DP=213;FS=0.000;Inbre
2649	chrY	5609547	.	A	G	741.34	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=1.42;Cli
2650	chrY	5612184	.	C	A	44.66	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2651	chrY	5612834	.	A	G	332.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.231e+
2652	chrY	5612927	.	T	C	137.19	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.50;Cli
2653	chrY	5614335	.	C	T	187.10	PASS	AC=6;AF=0.094;AN=64;DP=239;FS=0.000;Inbre
2654	chrY	5615418	.	G	A	9633.62	PASS	AC=58;AF=0.829;AN=70;DP=395;FS=0.000;Inbr
2655	chrY	5616180	.	T	C	82.39	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2656	chrY	5618756	.	T	C	342.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.504e+
2657	chrY	5618791	.	T	C	76.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.011e+
2658	chrY	5618845	.	A	G	35.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2659	chrY	5619798	.	A	G	210.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.580e-
2660	chrY	5619806	.	T	C	247.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.28;Cli

2661	chrY	5620912	.	G	A	203.01	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=-5.550e-
2662	chrY	5623075	.	G	A	1225.69	PASS	AC=6;AF=0.086;AN=70;DP=470;FS=0.000;Inbre
2663	chrY	5626957	.	A	G	258.02	PASS	AC=4;AF=0.065;AN=62;DP=273;FS=0.000;Inbre
2664	chrY	5628400	.	C	T	140.24	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.31;Cli
2665	chrY	5628834	.	G	A	1083.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.740e-
2666	chrY	5630188	.	T	C	1441.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.860e-
2667	chrY	5630211	.	A	C	1218.14	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.276e+
2668	chrY	5630318	.	T	G	1032.39	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=1.46;Cli
2669	chrY	5630459	.	C	T	647.37	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-7.500e-
2670	chrY	5630538	.	C	T	540.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.446e+
2671	chrY	5630603	.	G	A	818.46	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.27;Cl
2672	chrY	5630641	.	C	T	89.97	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
2673	chrY	5631203	.	T	A	297.81	PASS	AC=4;AF=0.059;AN=68;DP=373;FS=0.000;Inbre
2674	chrY	5631514	.	T	C	129.88	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.724;Cl
2675	chrY	5632507	.	T	C	30.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2676	chrY	5632856	.	G	T	95.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.529e+
2677	chrY	5632865	.	T	A	102.10	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.037;Cl
2678	chrY	5633332	.	A	G	231.47	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.493;Cl
2679	chrY	5633390	.	C	G	435.03	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.854;Cl
2680	chrY	5633674	.	G	A	1357.45	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.15;Cl
2681	chrY	5633771	.	C	T	2060.06	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.178;C
2682	chrY	5634005	.	C	A	587.24	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=1.65;Cl
2683	chrY	5634055	.	A	G	81.44	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
2684	chrY	5634073	.	T	C	149.93	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=-3.107e+
2685	chrY	5634075	.	A	G	142.42	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=2.11;Cli
2686	chrY	5634122	.	T	A	779.11	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=0.585;Cl
2687	chrY	5634163	.	T	C	1028.57	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=-5.640e-
2688	chrY	5634233	.	A	T	695.06	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.774;Cl
2689	chrY	5634316	.	T	G	170.16	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-4.060e-
2690	chrY	5634893	.	A	G	109.37	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
2691	chrY	5634963	.	A	G	474.64	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.020e-
2692	chrY	5635087	.	A	G	1459.52	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.227;C
2693	chrY	5636687	.	C	T	133.17	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=0.00;Cli
2694	chrY	5636776	.	G	A	4292.15	PASS	AC=36;AF=1.00;AN=36;DP=168;FS=0.000;Inbre
2695	chrY	5637205	.	C	T	86.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.97;Cli
2696	chrY	5637289	.	G	A	80.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.240e-
2697	chrY	5637298	.	T	A	86.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.850e+
2698	chrY	5637400	.	T	C	697.21	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=-3.021e-
2699	chrY	5637519	.	T	A	441.47	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-8.130e-
2700	chrY	5637628	.	C	G	655.44	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=1.28;Cli
2701	chrY	5637843	.	C	A	89.58	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=0.710;Cl
2702	chrY	5637970	.	A	C	65.71	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQRankSum=
2703	chrY	5638002	.	G	A	235.71	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=-6.300e-
2704	chrY	5638083	.	C	T	328.69	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=2.40;Cli
2705	chrY	5638240	.	A	T	31.81	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.49;Cli
2706	chrY	5639704	.	G	A	184.44	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=2.03;Cli
2707	chrY	5640864	.	C	T	263.17	PASS	AC=2;AF=0.030;AN=66;DP=246;FS=0.000;Inbre
2708	chrY	5643924	.	G	A	159.19	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.344e+
2709	chrY	5644508	.	T	A	900.82	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.450e+
2710	chrY	5644518	.	T	G	718.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.449e+
2711	chrY	5645057	.	A	G	155.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.32;Cli
2712	chrY	5645838	.	T	C	276.18	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-3.610e-
2713	chrY	5651967	.	A	G	6531.50	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=1.42;Cl
2714	chrY	5653464	.	T	C	287.35	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=2.22;Cli
2715	chrY	5653482	.	T	C	584.19	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=-4.250e-
2716	chrY	5653551	.	A	G	817.60	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-1.231e+
2717	chrY	5653785	.	C	G	36.91	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
2718	chrY	5653841	.	G	A	1281.52	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=-2.980e-
2719	chrY	5653861	.	A	G	59.31	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
2720	chrY	5654396	.	T	C	357.18	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.800e-
2721	chrY	5656060	.	C	T	96.61	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=1.84;Cli
2722	chrY	5656598	.	G	C	303.80	PASS	AC=2;AF=0.036;AN=56;DP=197;FS=0.000;Inbre
2723	chrY	5657848	.	C	T	78.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.246e+
2724	chrY	5658903	.	C	T	988.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.741;Cl
2725	chrY	5658904	.	T	G	1011.18	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.358;Cl
2726	chrY	5658998	.	T	G	622	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-4.770e-
2727	chrY	5659335	.	G	C	824.04	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=-7.940e-
2728	chrY	5660629	.	A	T	72.05	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.555;Cl
2729	chrY	5660896	.	G	C	43.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.727;Cl
2730	chrY	5661275	.	C	T	62.21	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.00;Cli
2731	chrY	5662067	.	C	T	1186.76	PASS	AC=6;AF=0.094;AN=64;DP=242;FS=0.000;Inbre
2732	chrY	5666511	.	G	A	1101.10	PASS	AC=6;AF=0.086;AN=70;DP=356;FS=0.000;Inbre
2733	chrY	5667405	.	C	T	57.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.370e-
2734	chrY	5669089	.	C	T	1501.30	PASS	AC=6;AF=0.094;AN=64;DP=254;FS=0.000;Inbre
2735	chrY	5670077	.	G	T	63.38	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.68;Cli
2736	chrY	5670495	.	G	T	47.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.120e-

2737	chrY	5673651	.	G	T	189.89	PASS	AC=2;AF=0.029;AN=70;DP=483;FS=0.000;Inbre
2738	chrY	5674765	.	G	A	36.94	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=1.23;Cli
2739	chrY	5677718	.	G	C	495.41	PASS	AC=2;AF=0.029;AN=70;DP=496;FS=0.000;Inbre
2740	chrY	5677907	.	A	G	740.84	PASS	AC=6;AF=0.091;AN=66;DP=475;FS=0.000;Inbre
2741	chrY	5680070	.	G	A	409.49	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.52;Cli
2742	chrY	5680111	.	C	T	1332.41	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.572;C
2743	chrY	5680126	.	A	G	1628.48	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.622;C
2744	chrY	5680164	.	T	G	2112.35	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.390e-
2745	chrY	5680165	.	C	A	1917.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-5.530e-
2746	chrY	5680174	.	A	C	1884.96	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.305;Cl
2747	chrY	5680402	.	G	A	36.34	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
2748	chrY	5681342	.	C	T	11220.92	PASS	AC=64;AF=1.00;AN=64;DP=376;FS=0.0
2749	chrY	5682456	.	G	A	11481.23	PASS	AC=48;AF=0.727;AN=66;DP=514;FS=0.
2750	chrY	5686902	.	T	C	617.46	PASS	AC=6;AF=0.086;AN=70;DP=334;FS=0.000;Inbre
2751	chrY	5687843	.	T	C	87.85	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=0.135;Cl
2752	chrY	5687883	.	C	G	237.02	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-5.300e-
2753	chrY	5689782	.	G	A	35.83	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.727;Cl
2754	chrY	5690510	.	C	G	402.61	PASS	AC=2;AF=0.029;AN=70;DP=420;FS=0.000;Inbre
2755	chrY	5691763	.	C	A	115.32	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.736;Cl
2756	chrY	5693294	.	A	G	204.08	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
2757	chrY	5698031	.	T	G	2434.90	PASS	AC=32;AF=0.571;AN=56;DP=249;FS=0.000;Inbr
2758	chrY	5698271	.	A	G	946.45	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=-7.940e-
2759	chrY	5699728	.	T	G	521.03	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.467;C
2760	chrY	5705396	.	G	A	38.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.083e+
2761	chrY	5705740	.	G	A	4137.97	PASS	AC=20;AF=1.00;AN=20;DP=160;FS=0.000;Inbre
2762	chrY	5707334	.	C	T	913.91	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=2.04;Cli
2763	chrY	5708644	.	A	G	5248.77	PASS	AC=40;AF=0.571;AN=70;DP=350;FS=0.000;Inbr
2764	chrY	5716216	.	A	G	12282.02	PASS	AC=64;AF=1.00;AN=64;BaseQRankSum=
2765	chrY	5721612	.	A	G	1342.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.439;Cl
2766	chrY	5723355	.	T	C	199.14	PASS	AC=2;AF=0.029;AN=70;DP=595;FS=0.000;Inbre
2767	chrY	5723643	.	C	A	196.25	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=-1.107e+
2768	chrY	5724216	.	T	C	472.18	PASS	AC=2;AF=0.029;AN=70;DP=533;FS=0.000;Inbre
2769	chrY	5728934	.	T	G	7539.93	PASS	AC=58;AF=1.00;AN=58;DP=272;FS=0.000;Inbre
2770	chrY	5729492	.	A	G	1000.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.560e-
2771	chrY	5730873	.	G	T	4719.07	PASS	AC=26;AF=1.00;AN=26;DP=187;FS=0.000;Inbre
2772	chrY	5733798	.	T	C	1871.02	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-8.210e-
2773	chrY	5736264	.	A	C	421.19	PASS	AC=6;AF=0.086;AN=70;DP=433;FS=0.000;Inbre
2774	chrY	5737257	.	T	C	214.27	PASS	AC=2;AF=0.029;AN=68;DP=218;FS=0.000;Inbre
2775	chrY	5738911	.	T	C	1405.13	PASS	AC=12;AF=0.171;AN=70;DP=308;FS=0.000;Inbr
2776	chrY	5741624	.	G	A	90.55	PASS	AC=2;AF=0.029;AN=70;DP=457;FS=0.000;Inbre
2777	chrY	5746249	.	T	C	942.52	PASS	AC=6;AF=0.091;AN=66;DP=455;FS=0.000;Inbre
2778	chrY	5747985	.	G	C	1874.12	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.922;C
2779	chrY	5748309	.	C	G	581.17	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=2.25;Cli
2780	chrY	5749086	.	C	T	846.21	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-8.660e-
2781	chrY	5751527	.	G	C	199.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.933;Cl
2782	chrY	5751708	.	C	G	7834.50	PASS	AC=54;AF=0.818;AN=66;DP=341;FS=0.000;Inbr
2783	chrY	5752367	.	C	A	12686.35	PASS	AC=60;AF=0.857;AN=70;BaseQRankSum=
2784	chrY	5752375	.	T	C	114.30	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2785	chrY	5753238	.	C	T	299.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=3.70;Cli
2786	chrY	5755023	.	C	T	1053.49	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=2.26;Cli
2787	chrY	5755550	.	T	C	10068.06	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=
2788	chrY	5761433	.	A	C	39.31	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=1.23;Cli
2789	chrY	5763616	.	A	G	947.98	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.930e-
2790	chrY	5765740	.	C	T	65.04	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQRankSum=
2791	chrY	5765772	.	T	C	136.72	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQRankSum=
2792	chrY	5766369	.	A	G	31.34	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
2793	chrY	5768041	.	G	A	64.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.322;Cl
2794	chrY	5768083	.	A	C	137.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.026e+
2795	chrY	5770167	.	G	A	732.48	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.13;Cl
2796	chrY	5770228	.	C	A	2613.60	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-6.510e-
2797	chrY	5770319	.	G	C	1187.11	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=0.727;C
2798	chrY	5770841	.	G	A	1055.18	PASS	AC=6;AF=0.333;AN=18;DP=152;FS=0.000;MLEAC
2799	chrY	5771971	.	G	A	72.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.26;Cli
2800	chrY	5773148	.	T	C	2303.26	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-8.530e-
2801	chrY	5773193	.	T	C	147.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.15;Cli
2802	chrY	5773320	.	A	T	3014.64	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=0.198;C
2803	chrY	5773392	.	G	A	1481.54	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=1.16;Cl
2804	chrY	5773606	.	T	C	3259.87	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum=-2.780e-
2805	chrY	5774153	.	C	T	34.12	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=2.29;Cli
2806	chrY	5775109	.	G	A	952.41	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=0.880;Cl
2807	chrY	5777425	.	A	G	368.18	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
2808	chrY	5778266	.	A	G	3529.19	PASS	AC=34;AF=0.607;AN=56;DP=284;FS=0.000;Inbr
2809	chrY	5780428	.	G	C	158.33	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-4.740e-
2810	chrY	5781413	.	C	A	355.94	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.31;Cli
2811	chrY	5784293	.	G	C	645.02	PASS	AC=6;AF=0.088;AN=68;DP=201;FS=0.000;Inbre
2812	chrY	5784602	.	A	T	707.41	PASS	AC=8;AF=0.800;AN=10;BaseQRankSum=0.736;Cl

2813	chrY	5785679	.	G	A	209.79	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=1.23;Cli
2814	chrY	5785683	.	G	A	211.89	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=0.358;Cl
2815	chrY	5785688	.	G	A	165.74	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=0.727;Cl
2816	chrY	5786846	.	G	T	533.23	PASS	AC=6;AF=0.086;AN=70;DP=429;FS=0.000;Inbre
2817	chrY	5788339	.	C	T	1147.67	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=1.37;Cli
2818	chrY	5790075	.	A	G	73.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-6.360e-
2819	chrY	5790739	.	T	G	203.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-1.000e+
2820	chrY	5795728	.	G	T	256.65	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=1.03;Cli
2821	chrY	5797153	.	T	C	158.09	PASS	AC=4;AF=0.071;AN=56;DP=135;FS=0.000;Inbre
2822	chrY	5807062	.	A	G	51.03	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2823	chrY	5812068	.	T	A	418.51	PASS	AC=2;AF=0.067;AN=30;DP=165;FS=0.000;Inbre
2824	chrY	5814645	.	T	C	10117.94	PASS	AC=68;AF=1.00;AN=68;DP=398;FS=0.0
2825	chrY	5815358	.	A	G	756.41	PASS	AC=6;AF=0.120;AN=50;DP=154;FS=0.000;Inbre
2826	chrY	5822164	.	G	A	471.53	PASS	AC=4;AF=0.059;AN=68;DP=439;FS=0.000;Inbre
2827	chrY	5822419	.	C	T	417.55	PASS	AC=2;AF=0.034;AN=58;DP=223;FS=0.000;Inbre
2828	chrY	5826571	.	C	G	56.27	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQRankSum=
2829	chrY	5827851	.	A	G	194.04	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=1.09;Cli
2830	chrY	5831341	.	T	C	525.18	PASS	AC=12;AF=0.333;AN=36;DP=203;FS=0.000;Inbr
2831	chrY	5831397	.	G	T	269.22	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=1.50;Cli
2832	chrY	5832276	.	C	T	50.73	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=2.63;Cli
2833	chrY	5832403	.	C	T	418.62	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-5.040e-
2834	chrY	5832456	.	C	T	178.23	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=-5.730e-
2835	chrY	5832504	.	G	T	31.75	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQRankSum=
2836	chrY	5832555	.	C	A	706.63	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=-1.217e+
2837	chrY	5832693	.	C	A	731.26	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.13;Cl
2838	chrY	5832772	.	A	G	150.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.061;Cl
2839	chrY	5832773	.	C	T	324.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.950;Cl
2840	chrY	5833007	.	G	T	1448.10	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.582;C
2841	chrY	5833035	.	A	G	477.79	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
2842	chrY	5833068	.	C	A	97.02	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.727;Cl
2843	chrY	5833077	.	C	T	69.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.673;Cl
2844	chrY	5833108	.	T	G	194.46	PASS	AC=2;AF=0.029;AN=70;DP=487;FS=0.000;Inbre
2845	chrY	5833190	.	G	T	165.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.13;Cli
2846	chrY	5833333	.	T	G	341.04	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.099e+
2847	chrY	5836038	.	G	C	1563.11	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.580e-
2848	chrY	5836961	.	G	A	53.04	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-5.680e-
2849	chrY	5837230	.	G	T	96.38	my_snp_filter	AC=2;AF=0.091;AN=22;DP=169;FS=0.0
2850	chrY	5837241	.	A	T	136.50	my_snp_filter	AC=2;AF=0.100;AN=20;DP=162;FS=0.0
2851	chrY	5837244	.	G	A	136.52	my_snp_filter	AC=2;AF=0.100;AN=20;DP=162;FS=0.0
2852	chrY	5837776	.	C	T	470.72	PASS	AC=4;AF=0.057;AN=70;DP=333;FS=0.000;Inbre
2853	chrY	5839522	.	G	A	276.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.00;Cli
2854	chrY	5840452	.	G	T	70.73	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
2855	chrY	5840897	.	C	A	1989.30	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.898;C
2856	chrY	5841289	.	G	A	256.61	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.369e+
2857	chrY	5841814	.	T	C	1287.82	PASS	AC=6;AF=0.086;AN=70;DP=404;FS=0.000;Inbre
2858	chrY	5841891	.	A	G	10326.94	PASS	AC=64;AF=1.00;AN=64;DP=366;FS=0.0
2859	chrY	5841991	.	T	A	218.12	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-9.880e-
2860	chrY	5842046	.	G	A	90.14	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.813e+
2861	chrY	5845366	.	G	T	1047.84	PASS	AC=6;AF=0.300;AN=20;DP=143;FS=0.000;Inbre
2862	chrY	5846307	.	A	G	3336.32	PASS	AC=40;AF=0.690;AN=58;DP=226;FS=0.000;Inbr
2863	chrY	5849375	.	G	T	101.81	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
2864	chrY	5851534	.	C	T	625.39	PASS	AC=6;AF=0.086;AN=70;DP=295;FS=0.000;Inbre
2865	chrY	5853280	.	T	C	51.38	PASS	AC=2;AF=0.030;AN=66;DP=251;FS=0.000;Inbre
2866	chrY	5854424	.	G	A	1239.73	PASS	AC=6;AF=0.167;AN=36;DP=161;FS=0.000;Inbre
2867	chrY	5855877	.	A	T	1371.49	PASS	AC=6;AF=0.086;AN=70;DP=386;FS=0.000;Inbre
2868	chrY	5855990	.	C	T	2806.84	PASS	AC=40;AF=0.625;AN=64;DP=255;FS=0.000;Inbr
2869	chrY	5857039	.	C	T	503.24	PASS	AC=2;AF=0.029;AN=70;DP=541;FS=0.000;Inbre
2870	chrY	5857248	.	G	A	3754.06	PASS	AC=22;AF=1.00;AN=22;DP=148;FS=0.000;Inbre
2871	chrY	5857921	.	T	C	41.68	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
2872	chrY	5857964	.	C	T	225.68	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.88;Cli
2873	chrY	5858215	.	G	A	4144.56	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=0.00;Cl
2874	chrY	5858687	.	C	T	81.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.696;Cl
2875	chrY	5858838	.	T	C	226.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-7.400e-
2876	chrY	5862368	.	G	T	41.70	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.00;Cli
2877	chrY	5862369	.	A	T	41.74	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=-7.360e-
2878	chrY	5862533	.	T	G	104.18	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=0.524;Cl
2879	chrY	5862541	.	T	C	161.97	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=0.524;Cl
2880	chrY	5863819	.	C	A	935.93	PASS	AC=6;AF=0.086;AN=70;DP=502;FS=0.000;Inbre
2881	chrY	5872192	.	C	G	191.36	PASS	AC=4;AF=0.250;AN=16;DP=61;FS=0.000;MLEAC=
2882	chrY	5872835	.	G	A	5873.22	PASS	AC=52;AF=1.00;AN=52;DP=205;FS=0.000;Inbre
2883	chrY	5877093	.	T	C	30.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2884	chrY	5877272	.	C	T	1243.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.394;Cl
2885	chrY	5877496	.	T	G	78.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.858e+
2886	chrY	5880022	.	T	C	213.23	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=0.813;Cl
2887	chrY	5880438	.	C	T	4490.71	PASS	AC=37;AF=0.597;AN=62;BaseQRankSum=0.742;C
2888	chrY	5882121	.	T	G	799.15	PASS	AC=6;AF=0.088;AN=68;DP=222;FS=0.000;Inbre

2889	chrY	5885943	.	T	C	74.41	PASS	AC=2;AF=0.111;AN=18;DP=115;FS=0.000;MLEAC
2890	chrY	5886046	.	A	T	3177.59	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=-1.734e+
2891	chrY	5886954	.	T	C	2482.77	PASS	AC=40;AF=0.625;AN=64;DP=239;FS=0.000;Inbr
2892	chrY	5891420	.	C	G	124.98	PASS	AC=4;AF=0.071;AN=56;DP=219;FS=0.000;Inbre
2893	chrY	5894396	.	T	A	32.06	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.980e-
2894	chrY	5894398	.	C	A	31.98	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-7.200e-
2895	chrY	5894739	.	G	C	183.21	PASS	AC=2;AF=0.029;AN=68;DP=298;FS=0.000;Inbre
2896	chrY	5900896	.	G	A	998.45	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.06;Cli
2897	chrY	5900917	.	A	G	1066.74	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-5.360e
2898	chrY	5904420	.	G	T	747.13	PASS	AC=4;AF=0.057;AN=70;DP=351;FS=0.000;Inbre
2899	chrY	5909017	.	C	T	129.82	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=2.79;Cli
2900	chrY	5912156	.	C	T	407.67	PASS	AC=6;AF=0.091;AN=68;DP=280;FS=0.000;Inbre
2901	chrY	5915653	.	C	A	92.25	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.50;Cli
2902	chrY	5920261	.	T	A	1346.36	PASS	AC=32;AF=0.640;AN=50;DP=187;FS=0.000;Inbr
2903	chrY	5925867	.	G	T	221.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.01;Cli
2904	chrY	5927785	.	C	T	45.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2905	chrY	5928002	.	T	C	274.87	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=1.53;Cli
2906	chrY	5930421	.	A	G	40.17	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.62;Cli
2907	chrY	5930426	.	C	T	41.58	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
2908	chrY	5930530	.	T	C	545.71	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=0.252;Cl
2909	chrY	5930731	.	C	T	2017.33	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.550;Cl
2910	chrY	5931219	.	T	A	33.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
2911	chrY	5931222	.	C	T	36.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
2912	chrY	5931579	.	C	A	174.44	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=1.07;Cli
2913	chrY	5931891	.	G	T	373.97	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.358;Cl
2914	chrY	5938423	.	A	G	775.25	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-1.886e+
2915	chrY	5940701	.	G	T	10732.99	PASS	AC=68;AF=1.00;AN=68;DP=363;FS=0.0
2916	chrY	5945148	.	T	C	996.95	PASS	AC=6;AF=0.086;AN=70;DP=265;FS=0.000;Inbre
2917	chrY	5946781	.	G	A	1044.95	PASS	AC=6;AF=0.086;AN=70;DP=294;FS=0.000;Inbre
2918	chrY	5948795	.	C	G	4628.18	PASS	AC=56;AF=1.00;AN=56;DP=203;FS=0.000;Inbre
2919	chrY	5949230	.	G	A	149.49	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=1.78;Cli
2920	chrY	5949241	.	C	T	144.87	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=0.685;Cl
2921	chrY	5949242	.	A	G	144.62	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-8.960e-
2922	chrY	5949245	.	C	T	144.71	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=2.06;Cli
2923	chrY	5953282	.	C	T	73.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.118;Cl
2924	chrY	5957087	.	T	C	91.80	PASS	AC=2;AF=0.037;AN=54;DP=180;FS=0.000;Inbre
2925	chrY	5957089	.	T	C	2556.30	PASS	AC=33;AF=0.825;AN=40;BaseQRankSum=0.358;C
2926	chrY	5961858	.	T	C	121.15	PASS	AC=2;AF=0.029;AN=70;DP=280;FS=0.000;Inbre
2927	chrY	5964174	.	T	C	229.28	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.231e+
2928	chrY	5966272	.	C	T	265.22	PASS	AC=2;AF=0.067;AN=30;DP=139;FS=0.000;Inbre
2929	chrY	5966649	.	G	T	2237.78	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=-6.760e
2930	chrY	5966672	.	T	A	378.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.881e+
2931	chrY	5966753	.	A	C	81.69	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.956;Cl
2932	chrY	5967673	.	A	G	4777.01	PASS	AC=44;AF=0.710;AN=62;DP=308;FS=0.000;Inbr
2933	chrY	5969632	.	T	C	569.77	PASS	AC=2;AF=0.029;AN=68;DP=382;FS=0.000;Inbre
2934	chrY	5972099	.	T	G	113.96	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-7.940e-
2935	chrY	5972377	.	C	A	776.73	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=1.12;Cli
2936	chrY	5973770	.	C	G	30.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2937	chrY	5974830	.	A	G	722.35	PASS	AC=6;AF=0.091;AN=66;DP=313;FS=0.000;Inbre
2938	chrY	5976699	.	C	A	323.20	PASS	AC=6;AF=0.167;AN=36;DP=122;FS=0.000;Inbre
2939	chrY	5976701	.	C	A	331.80	PASS	AC=6;AF=0.200;AN=30;DP=123;FS=0.000;Inbre
2940	chrY	5976703	.	C	A	1329.36	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=-6.700e
2941	chrY	5976705	.	C	A	3285.63	PASS	AC=26;AF=1.00;AN=26;BaseQRankSum=-7.360e-
2942	chrY	5979105	.	G	A	1295.43	PASS	AC=20;AF=0.526;AN=38;DP=171;FS=0.000;Inbr
2943	chrY	5981178	.	G	A	332.41	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=2.71;Cli
2944	chrY	5981186	.	A	T	440.72	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=1.48;Cli
2945	chrY	5987414	.	C	A	49.46	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=1.40;Cli
2946	chrY	5995260	.	G	A	3556.58	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-4.680e
2947	chrY	5995332	.	C	A	1420.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.003e+
2948	chrY	5995474	.	T	A	62.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
2949	chrY	5998261	.	C	T	1075.48	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-2.162e+
2950	chrY	5998402	.	A	G	31.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
2951	chrY	5999381	.	A	C	36.77	PASS	AC=2;AF=0.038;AN=52;DP=148;FS=0.000;Inbre
2952	chrY	5999533	.	C	T	1185.53	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-3.130e
2953	chrY	5999580	.	G	A	398.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.212;Cl
2954	chrY	6000081	.	G	T	3003.73	PASS	AC=38;AF=0.679;AN=56;DP=220;FS=0.000;Inbr
2955	chrY	6000087	.	T	C	39.50	PASS	AC=2;AF=0.030;AN=66;DP=217;FS=0.000;Inbre
2956	chrY	6000234	.	C	A	174.55	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.198;Cl
2957	chrY	6000954	.	C	T	132.59	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
2958	chrY	6001245	.	A	G	1210.77	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=0.00;Cl
2959	chrY	6001553	.	A	G	37.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
2960	chrY	6001865	.	C	T	37.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
2961	chrY	6001994	.	G	T	1306.92	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=1.40;Cl
2962	chrY	6002047	.	G	T	36.87	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
2963	chrY	6005917	.	C	T	127.31	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=2.72;Cli
2964	chrY	6006277	.	G	A	419.21	PASS	AC=6;AF=0.086;AN=70;DP=393;FS=0.000;Inbre

2965	chrY	6006707	.	C	T	42.53	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.736;Cli
2966	chrY	6006768	.	T	C	311.47	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-1.401e
2967	chrY	6006838	.	G	T	246.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.311;Cl
2968	chrY	6006845	.	C	T	188.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.505;Cl
2969	chrY	6011467	.	A	C	160.99	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=2.64;Cli
2970	chrY	6011471	.	A	G	156.85	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=0.213;Cl
2971	chrY	6012235	.	C	G	102.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.071;Cl
2972	chrY	6012243	.	G	A	96.63	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.98;Cli
2973	chrY	6012309	.	T	C	30.98	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
2974	chrY	6012387	.	C	T	330.82	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=1.74;Cli
2975	chrY	6012400	.	G	C	388.65	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.949;Cl
2976	chrY	6012402	.	T	C	383.59	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.691;Cl
2977	chrY	6012407	.	G	A	383.26	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=1.70;Cli
2978	chrY	6012416	.	C	T	338.60	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.195;Cl
2979	chrY	6012430	.	C	T	187.92	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=-1.423e+
2980	chrY	6012479	.	T	C	50.58	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=2.01;Cli
2981	chrY	6012481	.	C	G	50.40	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=1.78;Cli
2982	chrY	6014001	.	T	C	1003.75	PASS	AC=6;AF=0.300;AN=20;DP=165;FS=0.000;Inbre
2983	chrY	6019965	.	C	G	5302.21	PASS	AC=52;AF=1.00;AN=52;DP=207;FS=0.000;Inbre
2984	chrY	6020696	.	T	G	211.11	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=0.804;Cl
2985	chrY	6021573	.	A	T	570.92	PASS	AC=2;AF=0.029;AN=68;DP=407;FS=0.000;Inbre
2986	chrY	6021680	.	T	A	6470.49	PASS	AC=34;AF=0.531;AN=64;DP=449;FS=0.000;Inbr
2987	chrY	6022074	.	A	G	148.56	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=0.727;Cl
2988	chrY	6022092	.	T	C	67.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.633;Cl
2989	chrY	6022724	.	C	A	157.82	PASS	AC=4;AF=0.057;AN=70;DP=332;FS=0.000;Inbre
2990	chrY	6024313	.	T	G	337.95	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=-1.992e+
2991	chrY	6025256	.	G	T	137.08	PASS	AC=2;AF=0.029;AN=70;DP=517;FS=0.000;Inbre
2992	chrY	6029112	.	C	A	239.29	PASS	AC=2;AF=0.029;AN=70;DP=298;FS=0.000;Inbre
2993	chrY	6031388	.	A	G	46.89	PASS	AC=2;AF=0.029;AN=70;DP=444;FS=0.000;Inbre
2994	chrY	6032696	.	A	G	13406.48	PASS	AC=56;AF=0.824;AN=68;DP=523;FS=0.000;Inbre
2995	chrY	6032961	.	G	A	7432.12	PASS	AC=66;AF=1.00;AN=66;DP=255;FS=0.000;Inbre
2996	chrY	6036823	.	T	C	134.20	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
2997	chrY	6037387	.	G	T	212.60	PASS	AC=2;AF=0.029;AN=70;DP=374;FS=0.000;Inbre
2998	chrY	6037524	.	C	T	4150	PASS	AC=45;AF=0.776;AN=58;BaseQRankSum=-7.420e
2999	chrY	6040277	.	A	C	62.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.03;Cli
3000	chrY	6046001	.	G	A	1020.73	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.224;Cl
3001	chrY	6046194	.	A	G	5626.86	PASS	AC=18;AF=1.00;AN=18;DP=138;FS=0.000;MLEAC
3002	chrY	6046219	.	G	A	5809.86	PASS	AC=18;AF=1.00;AN=18;DP=144;FS=0.000;MLEAC
3003	chrY	6047570	.	A	G	341.26	PASS	AC=4;AF=0.095;AN=42;DP=126;FS=0.000;Inbre
3004	chrY	6048900	.	T	C	654.20	PASS	AC=2;AF=0.029;AN=70;DP=607;FS=0.000;Inbre
3005	chrY	6051248	.	C	G	10630.01	PASS	AC=66;AF=1.00;AN=66;DP=383;FS=0.000;Inbre
3006	chrY	6053948	.	T	C	63.46	PASS	AC=2;AF=0.034;AN=58;DP=205;FS=0.000;Inbre
3007	chrY	6068115	.	C	T	355.07	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.822;Cl
3008	chrY	6070053	.	C	A	112.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.33;Cli
3009	chrY	6072302	.	G	A	1492.72	PASS	AC=6;AF=0.088;AN=68;DP=447;FS=0.000;Inbre
3010	chrY	6077314	.	C	T	76.90	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.91;Cli
3011	chrY	6078134	.	T	C	722.31	PASS	AC=6;AF=0.094;AN=64;DP=261;FS=0.000;Inbre
3012	chrY	6085430	.	C	T	3206.91	PASS	AC=36;AF=0.563;AN=64;DP=299;FS=0.000;Inbr
3013	chrY	6089232	.	T	A	225.27	PASS	AC=2;AF=0.032;AN=62;DP=173;FS=0.000;Inbre
3014	chrY	6090116	.	G	A	922.02	PASS	AC=6;AF=0.167;AN=36;DP=123;FS=0.000;Inbre
3015	chrY	6090296	.	A	T	1152.60	PASS	AC=18;AF=0.500;AN=36;DP=177;FS=0.000;Inbr
3016	chrY	6091206	.	T	C	106.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.362e+
3017	chrY	6091221	.	T	A	206.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.833e+
3018	chrY	6093152	.	G	A	55.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
3019	chrY	6094558	.	C	T	17353.95	PASS	AC=70;AF=1.00;AN=70;DP=570;FS=0.000;Inbre
3020	chrY	6094700	.	C	T	848.36	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.889;Cl
3021	chrY	6094746	.	C	A	786.58	PASS	AC=6;AF=0.086;AN=70;DP=488;FS=0.000;Inbre
3022	chrY	6096026	.	G	A	181.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.67;Cli
3023	chrY	6101182	.	T	A	4228.84	PASS	AC=44;AF=0.647;AN=68;DP=315;FS=0.000;Inbr
3024	chrY	6101806	.	G	A	654.37	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=-5.720e
3025	chrY	6104602	.	A	T	9287.17	PASS	AC=50;AF=0.735;AN=68;DP=400;FS=0.000;Inbr
3026	chrY	6105265	.	A	C	425.54	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQRankSum=
3027	chrY	6112124	.	G	T	193.22	my_snp_filter	AC=6;AF=0.107;AN=56;DP=82;FS=0.000;Inbre
3028	chrY	6115655	.	G	T	217.93	my_snp_filter	AC=2;AF=0.032;AN=62;DP=306;FS=0.000;Inbre
3029	chrY	6115668	.	C	T	261.91	my_snp_filter	AC=2;AF=0.032;AN=62;DP=279;FS=0.000;Inbre
3030	chrY	6117377	.	A	G	893.53	my_snp_filter	AC=6;AF=0.094;AN=64;DP=257;FS=0.000;Inbre
3031	chrY	6118638	.	C	A	51.02	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQRankSum=
3032	chrY	6120981	.	G	A	1023.48	my_snp_filter	AC=19;AF=0.396;AN=48;BaseQRankSum=
3033	chrY	6122258	.	A	T	39.44	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQRankSum=
3034	chrY	6124962	.	A	G	398.18	my_snp_filter	AC=16;AF=0.364;AN=44;DP=107;FS=0.000;Inbre
3035	chrY	6125066	.	C	A	1771.56	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
3036	chrY	6126064	.	A	C	509.17	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQRankSum=
3037	chrY	6126065	.	C	T	506.85	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQRankSum=
3038	chrY	6129266	.	C	T	297.10	PASS	AC=2;AF=0.045;AN=44;DP=154;FS=0.000;Inbre
3039	chrY	6129663	.	G	A	309.77	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQRankSum=
3040	chrY	6129782	.	C	T	97.17	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=2.46;Cli

3041	chrY	6129800	.	T	A	325.92	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=0.880;C
3042	chrY	6129870	.	G	C	1075.75	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=0.627;C
3043	chrY	6130016	.	G	T	372.67	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=0.313;C
3044	chrY	6130189	.	C	T	238.86	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=-7.420e-
3045	chrY	6130283	.	A	T	852.98	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=0.322;C
3046	chrY	6130433	.	C	T	50.73	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
3047	chrY	6130513	.	G	C	63.45	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
3048	chrY	6130552	.	C	A	135.99	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
3049	chrY	6131605	.	C	A	240.51	my_snp_filter	AC=2;AF=0.033;AN=60;DP=288;FS=0.0
3050	chrY	6132744	.	T	C	37.91	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
3051	chrY	6132816	.	C	T	51.33	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQRankSum=
3052	chrY	6134290	.	G	C	462.83	my_snp_filter	AC=6;AF=0.176;AN=34;DP=67;FS=0.00
3053	chrY	6134446	.	A	G	1741.17	my_snp_filter	AC=26;AF=1.00;AN=26;DP=112;FS=0.0
3054	chrY	6134628	.	T	C	2160.95	my_snp_filter	AC=20;AF=1.00;AN=20;DP=113;FS=0.0
3055	chrY	6136156	.	A	G	447.10	my_snp_filter	AC=2;AF=0.029;AN=70;DP=840;FS=0.0
3056	chrY	6139591	.	G	A	1653.29	my_snp_filter	AC=6;AF=0.086;AN=70;DP=788;FS=0.0
3057	chrY	6140657	.	A	C	646.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.735e+
3058	chrY	6141514	.	T	C	68.99	my_snp_filter	AC=4;AF=0.667;AN=6;DP=8;FS=0.000;
3059	chrY	6144363	.	G	A	179.75	my_snp_filter	AC=2;AF=0.029;AN=70;DP=552;FS=0.0
3060	chrY	6145866	.	G	A	202.16	PASS	AC=2;AF=0.029;AN=68;DP=383;FS=0.000;Inbre
3061	chrY	6149739	.	A	G	17348.32	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=
3062	chrY	6152998	.	C	T	1103.99	my_snp_filter	AC=6;AF=0.086;AN=70;DP=428;FS=0.0
3063	chrY	6156282	.	T	A	71.60	my_snp_filter	AC=4;AF=0.077;AN=52;DP=105;FS=0.0
3064	chrY	6158039	.	A	G	1123.17	my_snp_filter	AC=18;AF=1.00;AN=18;DP=43;FS=0.00
3065	chrY	6158386	.	G	T	151.08	PASS	AC=2;AF=0.100;AN=20;DP=100;FS=0.000;Inbre
3066	chrY	6166498	.	A	G	71.24	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
3067	chrY	6167051	.	C	G,*	1913.25	PASS	AC=18,5;AF=0.257,0.071;AN=70;BaseQRankSum
3068	chrY	6172468	.	G	A	1293.18	my_snp_filter	AC=6;AF=0.333;AN=18;DP=159;FS=0.0
3069	chrY	6182285	.	A	G	185.32	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
3070	chrY	6190098	.	C	G	448.44	PASS	AC=2;AF=0.029;AN=70;DP=622;FS=0.000;Inbre
3071	chrY	6190103	.	T	C	472.52	PASS	AC=2;AF=0.029;AN=70;DP=616;FS=0.000;Inbre
3072	chrY	6203053	.	G	A	53.18	my_snp_filter	AC=2;AF=0.125;AN=16;DP=137;FS=0.0
3073	chrY	6203060	.	G	A	53.17	my_snp_filter	AC=2;AF=0.125;AN=16;DP=135;FS=0.0
3074	chrY	6203064	.	G	A	53.19	my_snp_filter	AC=2;AF=0.125;AN=16;DP=131;FS=0.0
3075	chrY	6205799	.	G	A	183.21	my_snp_filter	AC=4;AF=0.182;AN=22;DP=24;FS=0.00
3076	chrY	6231926	.	C	G	2181.69	my_snp_filter	AC=6;AF=0.086;AN=70;DP=1118;FS=0.0
3077	chrY	6242855	.	T	A	653.79	my_snp_filter	AC=6;AF=0.103;AN=58;DP=490;FS=0.0
3078	chrY	6272602	.	C	T	359.90	my_snp_filter	AC=6;AF=0.500;AN=12;DP=33;FS=0.00
3079	chrY	6287107	.	G	A	289.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3080	chrY	6289565	.	G	C	357.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3081	chrY	6293363	.	G	T	202.81	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=-2.740e-
3082	chrY	6293368	.	G	T	102.06	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=-2.960e-
3083	chrY	6293373	.	G	T	100.46	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=-2.960e-
3084	chrY	6325742	.	T	C	2613.64	my_snp_filter	AC=21;AF=0.328;AN=64;BaseQRankSum
3085	chrY	6325912	.	T	C	12454.65	my_snp_filter	AC=26;AF=0.371;AN=70;Base
3086	chrY	6332504	.	T	C	3531.65	PASS	AC=29;AF=0.500;AN=58;BaseQRankSum=-5.790e-
3087	chrY	6341905	.	G	C	17748.38	my_snp_filter	AC=31;AF=0.456;AN=68;Base
3088	chrY	6349483	.	G	A	10588.45	PASS	AC=54;AF=0.818;AN=66;DP=454;FS=0.
3089	chrY	6351297	.	T	C	425.18	PASS	AC=2;AF=0.029;AN=70;DP=698;FS=0.000;Inbre
3090	chrY	6363842	.	A	C	438.74	PASS	AC=6;AF=0.231;AN=26;DP=112;FS=0.000;Inbre
3091	chrY	6366560	.	C	A	4141.87	PASS	AC=18;AF=1.00;AN=18;DP=169;FS=0.000;MLEAC
3092	chrY	6368189	.	C	G	1411.01	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.000;Inbre
3093	chrY	6368233	.	T	C	3859.20	my_snp_filter	AC=46;AF=0.719;AN=64;DP=308;FS=0.
3094	chrY	6371166	.	G	A	13549.49	my_snp_filter	AC=40;AF=0.571;AN=70;Base
3095	chrY	6381736	.	A	C	108.86	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3096	chrY	6381946	.	T	A	288.90	my_snp_filter	AC=2;AF=0.029;AN=70;DP=397;FS=0.0
3097	chrY	6385537	.	G	T	714.98	PASS	AC=6;AF=0.088;AN=68;DP=300;FS=0.000;Inbre
3098	chrY	6385996	.	G	A	851.65	PASS	AC=6;AF=0.088;AN=68;DP=520;FS=0.000;Inbre
3099	chrY	6388343	.	A	C	6613.13	my_snp_filter	AC=58;AF=1.00;AN=58;DP=229;FS=0.0
3100	chrY	6390285	.	C	A	8941	my_snp_filter	AC=64;AF=1.00;AN=64;DP=294;FS=0.0
3101	chrY	6391191	.	T	C	9403.83	my_snp_filter	AC=40;AF=0.571;AN=70;DP=550;FS=0.0
3102	chrY	6397746	.	C	T	37.35	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
3103	chrY	6398918	.	A	C	633.50	my_snp_filter	AC=6;AF=0.111;AN=54;DP=178;FS=0.0
3104	chrY	6400897	.	G	A	855.64	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.18;Cli
3105	chrY	6401062	.	A	G	489.56	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.621e+
3106	chrY	6401064	.	G	A	554.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.482e+
3107	chrY	6401066	.	T	C	506.58	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.525e+
3108	chrY	6401516	.	T	C	767.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.447e+
3109	chrY	6401523	.	G	A	196.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.869;C
3110	chrY	6401878	.	C	T	197.73	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.28;Cli
3111	chrY	6401894	.	A	C	32.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3112	chrY	6401950	.	T	C	3279.75	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.136;C
3113	chrY	6401964	.	C	T	3428.43	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-5.360e-
3114	chrY	6401978	.	T	C	3761.99	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-4.920e-
3115	chrY	6401980	.	A	G	3744.98	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.556;C
3116	chrY	6402018	.	C	T,G	5791.90	PASS	AC=8,1;AF=0.308,0.038;AN=26;BaseQRankSum=

3117	chrY	6402020	.	G	A	3237.16	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=1.46;Cli
3118	chrY	6402032	.	A	G	318.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.123;Cl
3119	chrY	6402047	.	A	G	261.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3120	chrY	6402057	.	G	A	103.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
3121	chrY	6402078	.	T	C	607.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.061;Cl
3122	chrY	6402079	.	A	T	310.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.801;Cl
3123	chrY	6402090	.	G	A	583.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.37;Cli
3124	chrY	6402104	.	G	A	19537.48	PASS	AC=19;AF=0.452;AN=42;BaseQRankSum
3125	chrY	6402114	.	A	G	203.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3126	chrY	6402122	.	T	C	1131.85	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.761;Cl
3127	chrY	6402126	.	T	C	18735.26	PASS	AC=16;AF=0.421;AN=38;BaseQRankSum
3128	chrY	6402127	.	G	T	16318.13	PASS	AC=16;AF=0.421;AN=38;BaseQRankSum
3129	chrY	6402136	.	G	A	92.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.24;Cli
3130	chrY	6402149	.	G	A	795.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.10;Cli
3131	chrY	6402155	.	C	G	733.33	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.049e+
3132	chrY	6402207	.	G	C	121.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.135;Cl
3133	chrY	6402211	.	T	G	76.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3134	chrY	6402219	.	T	C	17842.63	PASS	AC=30;AF=0.484;AN=62;BaseQRankSum
3135	chrY	6402223	.	G	T	766.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=4.05;Cli
3136	chrY	6402241	.	G	A,*	324.88	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
3137	chrY	6402247	.	G	A	2516.74	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.84;Cl
3138	chrY	6402256	.	C	T,*	3571.24	PASS	AC=11,2;AF=0.157,0.029;AN=70;BaseQRankSum
3139	chrY	6402257	.	A	G	4930.33	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.729e
3140	chrY	6402258	.	A	C	2677.73	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-3.750e
3141	chrY	6402259	.	T	C	5124.05	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-2.015e
3142	chrY	6402264	.	A	C	919.98	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=1.58;Cli
3143	chrY	6402266	.	G	C	80.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.160e-
3144	chrY	6402270	.	T	G	140.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.579;Cl
3145	chrY	6402275	.	G	A,*	3341.41	PASS	AC=11,2;AF=0.157,0.029;AN=70;BaseQRankSum
3146	chrY	6402277	.	A	C,*	1008.87	PASS	AC=1,2;AF=0.017,0.034;AN=58;BaseQRankSum
3147	chrY	6402278	.	C	G	6886.95	PASS	AC=26;AF=0.448;AN=58;BaseQRankSum=0.863;C
3148	chrY	6402283	.	C	T	503.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.41;Cli
3149	chrY	6402297	.	G	C	247.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.03;Cli
3150	chrY	6402301	.	A	C,*	864.39	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQRankSum=
3151	chrY	6402302	.	T	G,*	747.41	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQRankSum=
3152	chrY	6402307	.	T	C	149.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.584;Cl
3153	chrY	6402309	.	T	G	149.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.01;Cli
3154	chrY	6402312	.	T	G,*	779.88	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQRankSum=
3155	chrY	6402314	.	C	T,*	761.79	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQRankSum=
3156	chrY	6402316	.	G	A,*	918.38	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQRankSum=
3157	chrY	6402338	.	T	C,*	1343.09	PASS	AC=8,3;AF=0.121,0.045;AN=66;BaseQRankSum=
3158	chrY	6402346	.	A	T	1329.65	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=-6.700e
3159	chrY	6402352	.	G	A	249.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.33;Cli
3160	chrY	6402380	.	A	T	605.49	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.895;Cl
3161	chrY	6402389	.	G	A	548.79	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-5.600e-
3162	chrY	6402390	.	G	T	110.42	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.262;Cl
3163	chrY	6402391	.	G	T	705.67	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=-7.110e-
3164	chrY	6402395	.	A	G	622.62	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=2.44;Cli
3165	chrY	6402403	.	A	C	68.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.200e-
3166	chrY	6402425	.	T	C	248.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.114e+
3167	chrY	6402426	.	G	T	249.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.238e+
3168	chrY	6402621	.	A	G	238.67	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.552e+
3169	chrY	6402623	.	C	A	230.02	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.21;Cli
3170	chrY	6402630	.	C	A	164.68	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=1.55;Cli
3171	chrY	6402639	.	G	C	67.08	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.37;Cli
3172	chrY	6402863	.	T	C	1842.30	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.179e
3173	chrY	6402987	.	T	C	45.33	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
3174	chrY	6403070	.	T	C	82.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.200e-
3175	chrY	6403090	.	G	A	1154.41	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.30;Cli
3176	chrY	6403096	.	T	C	412.41	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.470e+
3177	chrY	6403110	.	A	T	45.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3178	chrY	6403127	.	G	A	2820.30	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=1.00;Cl
3179	chrY	6403154	.	G	A	679.64	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-3.110e-
3180	chrY	6403160	.	T	C	834.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.143;Cl
3181	chrY	6403161	.	A	G	48.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
3182	chrY	6403163	.	C	G	206.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.396e+
3183	chrY	6403169	.	A	G	4430.29	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=0.355;C
3184	chrY	6403171	.	A	G	145.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.280e-
3185	chrY	6403185	.	G	A	104.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.06;Cli
3186	chrY	6403200	.	T	C	5307.74	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum=-6.150e
3187	chrY	6403221	.	C	T	98.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3188	chrY	6403225	.	A	G	6800.37	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=-7.950e
3189	chrY	6403259	.	A	G	68.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.06;Cli
3190	chrY	6403276	.	A	C,T	2235.67	my_snp_filter	AC=3,8;AF=0.044,0.118;AN=68;BaseQ
3191	chrY	6403278	.	C	G	2342.95	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.22;Cl
3192	chrY	6403289	.	A	G	1573.32	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum

3193	chrY	6403301	.	T	C	711.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.229;Cl
3194	chrY	6403654	.	A	G	250.96	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=-2.122e+
3195	chrY	6403690	.	G	C	30.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.780e-
3196	chrY	6406956	.	C	T	1119.17	PASS	AC=6;AF=0.088;AN=68;DP=281;FS=0.000;Inbre
3197	chrY	6408124	.	A	T	297.07	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.350;Cl
3198	chrY	6408252	.	G	T	2245.88	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.382;Cl
3199	chrY	6408535	.	G	A	249.15	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=3.17;Cli
3200	chrY	6408665	.	A	C	218.14	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=0.667;Cl
3201	chrY	6411386	.	A	G	41.88	PASS	AC=2;AF=0.029;AN=68;DP=245;FS=0.000;Inbre
3202	chrY	6413389	.	C	T	33.95	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
3203	chrY	6414804	.	C	T	66.68	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.12;Cli
3204	chrY	6414897	.	T	C	33.41	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
3205	chrY	6420592	.	A	C	1320.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.19;Cli
3206	chrY	6421452	.	T	C	171.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.620e-
3207	chrY	6422901	.	T	C	487.38	PASS	AC=6;AF=0.086;AN=70;DP=287;FS=0.000;Inbre
3208	chrY	6424725	.	T	C	709.92	PASS	AC=4;AF=0.059;AN=68;DP=451;FS=0.000;Inbre
3209	chrY	6430393	.	A	C	373.14	PASS	AC=8;AF=0.182;AN=44;DP=64;FS=0.000;Inbre
3210	chrY	6435794	.	A	G	1063.38	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=-1.187e+
3211	chrY	6438060	.	A	G	582.19	PASS	AC=6;AF=0.091;AN=66;DP=252;FS=0.000;Inbre
3212	chrY	6438067	.	G	A	154.22	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.322;Cl
3213	chrY	6438236	.	T	C	1184.23	PASS	AC=20;AF=0.500;AN=40;DP=174;FS=0.000;Inbr
3214	chrY	6439207	.	A	G	2922.98	PASS	AC=20;AF=1.00;AN=20;DP=120;FS=0.000;Inbr
3215	chrY	6447588	.	A	C	2331.02	PASS	AC=20;AF=1.00;AN=20;DP=99;FS=0.000;Inbre
3216	chrY	6447781	.	T	C	44.35	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.360e-
3217	chrY	6451572	.	A	G	2084.86	PASS	AC=18;AF=1.00;AN=18;DP=141;FS=0.000;MLEAC
3218	chrY	6451908	.	C	G	920.63	PASS	AC=6;AF=0.088;AN=68;DP=386;FS=0.000;Inbre
3219	chrY	6454260	.	T	C	430.83	PASS	AC=6;AF=0.086;AN=70;DP=378;FS=0.000;Inbre
3220	chrY	6454869	.	T	G	263.44	PASS	AC=6;AF=0.097;AN=62;DP=251;FS=0.000;Inbre
3221	chrY	6458403	.	C	T	3411.27	PASS	AC=40;AF=0.571;AN=70;DP=308;FS=0.000;Inbr
3222	chrY	6458735	.	A	T	47.77	PASS	AC=2;AF=0.033;AN=60;DP=197;FS=0.000;Inbre
3223	chrY	6458737	.	G	T	47.89	PASS	AC=2;AF=0.034;AN=58;DP=192;FS=0.000;Inbre
3224	chrY	6461307	.	G	A	7044.25	PASS	AC=52;AF=0.743;AN=70;DP=399;FS=0.000;Inbr
3225	chrY	6464032	.	G	C	48.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.890e-
3226	chrY	6464415	.	C	G	473.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.933;Cl
3227	chrY	6470376	.	A	G	3283.15	PASS	AC=40;AF=0.690;AN=58;DP=261;FS=0.000;Inbr
3228	chrY	6472886	.	G	A	1505.57	PASS	AC=6;AF=0.086;AN=70;DP=584;FS=0.000;Inbre
3229	chrY	6473692	.	G	A	142.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.70;Cli
3230	chrY	6476956	.	C	T	91.59	PASS	AC=2;AF=0.091;AN=22;DP=198;FS=0.000;Inbre
3231	chrY	6481240	.	C	T	30.31	PASS	AC=2;AF=0.032;AN=62;DP=216;FS=0.000;Inbre
3232	chrY	6482140	.	T	G	5500.15	PASS	AC=52;AF=1.00;AN=52;DP=216;FS=0.000;Inbre
3233	chrY	6484246	.	G	A	1254.76	PASS	AC=6;AF=0.088;AN=68;DP=287;FS=0.000;Inbre
3234	chrY	6486261	.	G	C	479.66	PASS	AC=4;AF=0.063;AN=64;DP=424;FS=0.000;Inbre
3235	chrY	6486531	.	T	C	34.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-5.100e-
3236	chrY	6486643	.	G	C	1414.62	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-8.360e
3237	chrY	6486831	.	T	C	634.23	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.524;Cl
3238	chrY	6487321	.	C	T	1887.92	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=-1.759e+
3239	chrY	6487617	.	C	T	987.96	PASS	AC=6;AF=0.086;AN=70;DP=602;FS=0.000;Inbre
3240	chrY	6490714	.	C	A	1256.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.55;Cli
3241	chrY	6495386	.	G	A	360.02	PASS	AC=2;AF=0.111;AN=18;DP=167;FS=0.000;MLEAC
3242	chrY	6499875	.	A	G	145.38	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.070e+
3243	chrY	6499931	.	A	T	161.39	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-2.008e+
3244	chrY	6499947	.	A	G	149.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.350;Cl
3245	chrY	6500127	.	T	G	239.63	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-1.770e+
3246	chrY	6500136	.	T	G,A	504.49	PASS	AC=5,1;AF=0.278,0.056;AN=18;BaseQRankSum=
3247	chrY	6500139	.	T	A	230.64	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-1.893e+
3248	chrY	6500147	.	A	C	146.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.884e+
3249	chrY	6500179	.	C	A	105.84	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.230e-
3250	chrY	6500199	.	G	T	37.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
3251	chrY	6500343	.	T	G	3705.94	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum=1.68;Cl
3252	chrY	6503326	.	C	T	40.61	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=2.48;Cli
3253	chrY	6503431	.	T	A	42.05	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.365;Cl
3254	chrY	6503473	.	G	T	47.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.296;Cl
3255	chrY	6503902	.	T	G	922.18	PASS	AC=6;AF=0.097;AN=62;DP=236;FS=0.000;Inbre
3256	chrY	6504248	.	C	T	165.63	PASS	AC=4;AF=0.077;AN=52;DP=185;FS=0.000;Inbre
3257	chrY	6505528	.	A	G	2707.48	PASS	AC=38;AF=0.760;AN=50;DP=172;FS=0.000;Inbr
3258	chrY	6508516	.	A	T	113.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.990e-
3259	chrY	6517234	.	G	T	327.47	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.850e-
3260	chrY	6517272	.	G	C	1533.51	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.46;Cl
3261	chrY	6518864	.	C	A	415.11	PASS	AC=6;AF=0.176;AN=34;DP=96;FS=0.000;Inbre
3262	chrY	6525350	.	T	A	255.73	PASS	AC=2;AF=0.029;AN=68;DP=288;FS=0.000;Inbre
3263	chrY	6527693	.	A	G	4585.80	my_snp_filter	AC=37;AF=0.529;AN=70;BaseQRankSum=
3264	chrY	6532192	.	G	T	143.37	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
3265	chrY	6532642	.	C	G	258.09	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.39;Cli
3266	chrY	6536614	.	T	C	34.09	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
3267	chrY	6537379	.	G	A	753.82	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=-5.970e
3268	chrY	6540152	.	C	A	105.22	PASS	AC=4;AF=0.182;AN=22;DP=112;FS=0.000;Inbre

3269	chrY	6576454	.	T	G	1980.14	PASS	AC=18;AF=0.900;AN=20;DP=89;FS=0.000;Inbre
3270	chrY	6577568	.	A	C	224.24	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.265;Cl
3271	chrY	6577596	.	G	A	331.44	PASS	AC=2;AF=0.038;AN=52;DP=220;FS=0.000;Inbre
3272	chrY	6581343	.	C	T	993.63	PASS	AC=6;AF=0.088;AN=68;DP=411;FS=0.000;Inbre
3273	chrY	6582209	.	C	T	264.39	PASS	AC=6;AF=0.086;AN=70;DP=257;FS=0.000;Inbre
3274	chrY	6583280	.	A	C	1263.22	PASS	AC=22;AF=0.500;AN=44;BaseQRankSum=0.727;C
3275	chrY	6584471	.	T	C	127.35	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
3276	chrY	6585757	.	G	A	164.50	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.123e+
3277	chrY	6586098	.	C	G	2810.40	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-6.840e
3278	chrY	6586167	.	C	T	690.45	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.248;G
3279	chrY	6588023	.	T	C	2919.81	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.170e
3280	chrY	6590979	.	C	G	271.41	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=0.768;Cl
3281	chrY	6597368	.	A	C	681.86	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=0.720;C
3282	chrY	6597531	.	T	G	458.24	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.358;C
3283	chrY	6597755	.	C	A	1926.73	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.555;C
3284	chrY	6597779	.	A	G	934.67	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.791;C
3285	chrY	6597902	.	T	G	350.53	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=-1.917e+
3286	chrY	6597904	.	C	T	355.33	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=1.16;Cli
3287	chrY	6597965	.	A	G	38.36	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQRankSum=
3288	chrY	6598389	.	A	G	76.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.29;Cli
3289	chrY	6598643	.	C	T	54.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.49;Cl
3290	chrY	6598674	.	G	T	3899.70	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.623;C
3291	chrY	6598738	.	A	G	379.46	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.00;Cli
3292	chrY	6598944	.	A	G	1451.14	PASS	AC=28;AF=0.519;AN=54;DP=272;FS=0.000;Inbr
3293	chrY	6598964	.	G	A	1014.66	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=3.02;Cl
3294	chrY	6599145	.	G	C	363.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.672;Cl
3295	chrY	6599177	.	T	C	180.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.550e-
3296	chrY	6599194	.	T	G	3141.19	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.790e
3297	chrY	6599198	.	T	G	3209.92	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-8.510e
3298	chrY	6599289	.	A	T	173.33	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.05;Cli
3299	chrY	6599290	.	A	T	172.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.185;Cl
3300	chrY	6599422	.	C	G	114.81	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.083e+
3301	chrY	6599640	.	T	C	1701.79	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=-5.330e
3302	chrY	6599779	.	C	G	142.98	my_snp_filter	AC=6;AF=0.200;AN=30;BaseQRankSum=
3303	chrY	6600294	.	T	G	52.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3304	chrY	6600473	.	C	T	184.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.694;Cl
3305	chrY	6600651	.	T	C	867.36	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.289;Cl
3306	chrY	6600661	.	T	C	360.05	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=-7.360e
3307	chrY	6601068	.	G	A	72.21	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.967;Cl
3308	chrY	6601362	.	T	C	419.59	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.000;Inbre
3309	chrY	6601496	.	A	G	1057.37	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.27;Cli
3310	chrY	6603027	.	C	T	441.18	PASS	AC=2;AF=0.029;AN=68;DP=229;FS=0.000;Inbre
3311	chrY	6603191	.	A	G	8258.44	PASS	AC=58;AF=0.829;AN=70;DP=406;FS=0.000;Inbr
3312	chrY	6604911	.	G	A	4867.41	PASS	AC=45;AF=0.978;AN=46;BaseQRankSum=0.736;C
3313	chrY	6605228	.	A	G	39.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
3314	chrY	6605366	.	A	G	93.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.817;Cl
3315	chrY	6605543	.	A	T	924	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=0.736;Cl
3316	chrY	6605600	.	G	A	501.66	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.406;Cl
3317	chrY	6605758	.	T	C	104.10	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=0.636;Cl
3318	chrY	6607435	.	T	C	122.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3319	chrY	6607699	.	T	C	67.07	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
3320	chrY	6607744	.	C	T	338.73	my_snp_filter	AC=7;AF=0.194;AN=36;BaseQRankSum=
3321	chrY	6608055	.	T	C	1146.12	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=-1.581e
3322	chrY	6608183	.	C	T	467.63	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.36;Cli
3323	chrY	6608194	.	G	A	215.41	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQRankSum=
3324	chrY	6608258	.	G	C	1009.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.500e-
3325	chrY	6610224	.	A	C	1264.41	PASS	AC=26;AF=0.464;AN=56;DP=220;FS=0.000;Inbr
3326	chrY	6612108	.	G	A	942.48	PASS	AC=6;AF=0.094;AN=64;DP=178;FS=0.000;Inbre
3327	chrY	6612281	.	A	T	1356.33	PASS	AC=6;AF=0.097;AN=62;DP=163;FS=0.000;Inbre
3328	chrY	6612283	.	C	T	1356.63	PASS	AC=6;AF=0.097;AN=62;DP=160;FS=0.000;Inbre
3329	chrY	6613151	.	C	G	864.22	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-6.340e-
3330	chrY	6616258	.	C	T	4560.33	PASS	AC=44;AF=1.00;AN=44;DP=165;FS=0.000;Inbre
3331	chrY	6617193	.	A	G	1615.38	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=-8.670e-
3332	chrY	6617345	.	C	T	690.11	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=2.01;Cli
3333	chrY	6617387	.	C	A	560.11	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=1.20;Cli
3334	chrY	6617389	.	T	C	558.99	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=-1.982e+
3335	chrY	6617489	.	C	G	58.85	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=0.284;Cl
3336	chrY	6617504	.	T	C	86.44	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-5.480e-
3337	chrY	6617575	.	T	C	64.20	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
3338	chrY	6628186	.	G	A	574.23	PASS	AC=6;AF=0.086;AN=70;DP=392;FS=0.000;Inbre
3339	chrY	6629930	.	A	T	9688.25	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=-8.420e
3340	chrY	6630211	.	T	C	859.58	PASS	AC=6;AF=0.097;AN=62;DP=193;FS=0.000;Inbre
3341	chrY	6630931	.	G	A	24134.88	PASS	AC=70;AF=1.00;AN=70;DP=789;FS=0.0
3342	chrY	6632955	.	A	C	443.85	PASS	AC=2;AF=0.034;AN=58;DP=214;FS=0.000;Inbre
3343	chrY	6636242	.	G	T	408.16	PASS	AC=2;AF=0.029;AN=70;DP=592;FS=0.000;Inbre
3344	chrY	6648362	.	T	A	479.50	PASS	AC=6;AF=0.088;AN=68;DP=263;FS=0.000;Inbre

3345	chrY	6648543	.	T	G	698.51	PASS	AC=6;AF=0.094;AN=64;DP=219;FS=0.000;Inbre
3346	chrY	6650199	.	G	C	600.87	PASS	AC=6;AF=0.086;AN=70;DP=374;FS=0.000;Inbre
3347	chrY	6653593	.	A	T	1008.41	PASS	AC=6;AF=0.086;AN=70;DP=402;FS=0.000;Inbre
3348	chrY	6654601	.	A	G	195.66	PASS	AC=4;AF=0.067;AN=60;DP=272;FS=0.000;Inbre
3349	chrY	6660143	.	T	G	1130.40	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.56;Cli
3350	chrY	6664543	.	G	A	1456.01	PASS	AC=6;AF=0.214;AN=28;DP=181;FS=0.000;Inbre
3351	chrY	6670461	.	G	T	1913.94	PASS	AC=35;AF=0.729;AN=48;BaseQRankSum=0.727;C
3352	chrY	6674832	.	T	C	7941.90	PASS	AC=40;AF=0.571;AN=70;DP=483;FS=0.000;Inbr
3353	chrY	6676374	.	C	A	2457.87	PASS	AC=36;AF=0.600;AN=60;DP=207;FS=0.000;Inbr
3354	chrY	6682532	.	C	T	4854.49	PASS	AC=38;AF=0.559;AN=68;DP=376;FS=0.000;Inb
3355	chrY	6684237	.	C	A	49.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.736;Cl
3356	chrY	6685652	.	A	T	451.62	PASS	AC=14;AF=0.389;AN=36;DP=173;FS=0.000;Inbr
3357	chrY	6690341	.	A	G	1123.17	PASS	AC=6;AF=0.150;AN=40;DP=169;FS=0.000;Inbre
3358	chrY	6692135	.	G	T	308.67	PASS	AC=2;AF=0.029;AN=70;DP=562;FS=0.000;Inbre
3359	chrY	6692153	.	G	A	1002.31	PASS	AC=6;AF=0.086;AN=70;DP=542;FS=0.000;Inbre
3360	chrY	6692214	.	T	C	33.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.200e-
3361	chrY	6693670	.	A	T	460.76	PASS	AC=2;AF=0.029;AN=68;DP=315;FS=0.000;Inbre
3362	chrY	6696055	.	C	T	616.61	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.000;Inbre
3363	chrY	6697158	.	G	A	533.68	PASS	AC=6;AF=0.088;AN=68;DP=274;FS=0.000;Inbre
3364	chrY	6701239	.	A	G	9762.06	PASS	AC=68;AF=1.00;AN=68;DP=320;FS=0.000;Inbre
3365	chrY	6707890	.	T	G	19178.94	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
3366	chrY	6722445	.	A	C	56.06	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
3367	chrY	6728766	.	G	A	4274.98	PASS	AC=26;AF=0.371;AN=70;DP=437;FS=0.000;Inbr
3368	chrY	6740034	.	C	A	474.51	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.003e+
3369	chrY	6742916	.	C	A	353.19	PASS	AC=2;AF=0.031;AN=64;DP=239;FS=0.000;Inbre
3370	chrY	6745207	.	C	T	1412	PASS	AC=6;AF=0.086;AN=70;DP=587;FS=0.000;Inbre
3371	chrY	6747482	.	A	G	1300.19	PASS	AC=6;AF=0.333;AN=18;DP=184;FS=0.000;MLEAC
3372	chrY	6753175	.	G	T	42.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
3373	chrY	6753182	.	A	T	42.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
3374	chrY	6753258	.	T	C	772.58	PASS	AC=6;AF=0.094;AN=64;DP=278;FS=0.000;Inbre
3375	chrY	6753287	.	A	G	2722.63	PASS	AC=36;AF=0.667;AN=54;DP=227;FS=0.000;Inbr
3376	chrY	6753291	.	G	C	2619.02	PASS	AC=36;AF=0.667;AN=54;DP=223;FS=0.000;Inbr
3377	chrY	6753295	.	C	T	2321.83	PASS	AC=36;AF=0.667;AN=54;DP=214;FS=0.000;Inbr
3378	chrY	6753303	.	G	T	991.12	PASS	AC=6;AF=0.107;AN=56;DP=202;FS=0.000;Inbre
3379	chrY	6753459	.	G	T	1683.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.59;Cli
3380	chrY	6753511	.	A	G	15445.98	PASS	AC=70;AF=1.00;AN=70;DP=397;FS=0.000;Inbre
3381	chrY	6753519	.	G	A	14119.35	PASS	AC=58;AF=0.829;AN=70;DP=460;FS=0.000;Inbre
3382	chrY	6753986	.	G	A	1541.76	PASS	AC=6;AF=0.086;AN=70;DP=496;FS=0.000;Inbre
3383	chrY	6759928	.	A	G	731.33	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.20;Cli
3384	chrY	6759936	.	C	T	692.25	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.29;Cli
3385	chrY	6759946	.	C	T	691.30	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.445e+
3386	chrY	6759952	.	G	A	689.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.478;Cl
3387	chrY	6759955	.	T	C	644.60	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.28;Cli
3388	chrY	6759959	.	T	C	644.67	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.213;Cl
3389	chrY	6759960	.	G	A	642.31	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.300e-
3390	chrY	6759977	.	T	C	642.09	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.490e+
3391	chrY	6759978	.	G	T	633.37	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.900;Cl
3392	chrY	6759995	.	A	G	393.03	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.02;Cli
3393	chrY	6760000	.	T	C	314.76	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.00;Cli
3394	chrY	6760009	.	A	T	72.23	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
3395	chrY	6762498	.	T	C	1217.31	PASS	AC=2;AF=0.029;AN=70;DP=595;FS=0.000;Inbre
3396	chrY	6766034	.	T	C	6622.12	PASS	AC=54;AF=1.00;AN=54;DP=225;FS=0.000;Inbre
3397	chrY	6768930	.	G	A	289.96	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=0.747;Cl
3398	chrY	6773590	.	T	C	46.98	PASS	AC=2;AF=0.056;AN=36;DP=185;FS=0.000;Inbre
3399	chrY	6775433	.	G	A	124.13	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.731;Cl
3400	chrY	6775434	.	T	A	124.45	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.550;Cl
3401	chrY	6778648	.	A	C	139.95	PASS	AC=2;AF=0.040;AN=50;DP=199;FS=0.000;Inbre
3402	chrY	6778762	.	C	T	2000.79	PASS	AC=28;AF=0.583;AN=48;DP=215;FS=0.000;Inbr
3403	chrY	6785844	.	C	T	1075.33	PASS	AC=6;AF=0.086;AN=70;DP=536;FS=0.000;Inbre
3404	chrY	6792143	.	G	T	105.83	PASS	AC=2;AF=0.033;AN=60;DP=273;FS=0.000;Inbre
3405	chrY	6793581	.	T	C	1134.63	PASS	AC=6;AF=0.273;AN=22;DP=168;FS=0.000;Inbre
3406	chrY	6801568	.	T	C	774.04	PASS	AC=6;AF=0.086;AN=70;DP=622;FS=0.000;Inbre
3407	chrY	6802019	.	A	T	77.65	PASS	AC=2;AF=0.029;AN=70;DP=358;FS=0.000;Inbre
3408	chrY	6823967	.	T	G	590.97	PASS	AC=2;AF=0.029;AN=68;DP=336;FS=0.000;Inbre
3409	chrY	6824927	.	G	A	403.19	PASS	AC=2;AF=0.029;AN=70;DP=755;FS=0.000;Inbre
3410	chrY	6826729	.	T	G	358.52	PASS	AC=2;AF=0.063;AN=32;DP=177;FS=0.000;Inbre
3411	chrY	6826765	.	G	A	521.27	PASS	AC=14;AF=0.368;AN=38;DP=187;FS=0.000;Inbr
3412	chrY	6827381	.	A	C	150.12	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=2.07;Cli
3413	chrY	6827403	.	T	C	135.71	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=0.567;Cl
3414	chrY	6827405	.	T	C	136.40	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=0.886;Cl
3415	chrY	6828599	.	C	T	449.34	PASS	AC=2;AF=0.029;AN=70;DP=518;FS=0.000;Inbre
3416	chrY	6829852	.	G	A	1959.24	PASS	AC=22;AF=0.647;AN=34;DP=186;FS=0.000;Inbr
3417	chrY	6832631	.	A	G	14123.23	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=
3418	chrY	6834376	.	A	C	1092.13	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.158;Cl
3419	chrY	6844888	.	C	T	491.95	PASS	AC=2;AF=0.031;AN=64;DP=586;FS=0.000;Inbre
3420	chrY	6846771	.	T	A	1029.01	PASS	AC=6;AF=0.088;AN=68;DP=244;FS=0.000;Inbre

3421	chrY	6851169	.	C	T	1279.01	PASS	AC=6;AF=0.086;AN=70;DP=455;FS=0.000;Inbre
3422	chrY	6858319	.	C	T	1150.65	PASS	AC=6;AF=0.088;AN=68;DP=564;FS=0.000;Inbre
3423	chrY	6866201	.	G	A	1309.24	PASS	AC=6;AF=0.086;AN=70;DP=608;FS=0.000;Inbre
3424	chrY	6868118	.	A	G	12758.90	PASS	AC=70;AF=1.00;AN=70;DP=505;FS=0.0
3425	chrY	6876175	.	G	A	352.50	PASS	AC=2;AF=0.029;AN=70;DP=485;FS=0.000;Inbre
3426	chrY	6877440	.	A	G	207.64	PASS	AC=2;AF=0.029;AN=68;DP=318;FS=0.000;Inbre
3427	chrY	6878091	.	C	A	46.61	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-1.300e+
3428	chrY	6878095	.	C	A	46.60	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-9.880e-
3429	chrY	6879365	.	C	T	4657.33	PASS	AC=45;AF=0.703;AN=64;BaseQRankSum=-7.360e
3430	chrY	6882314	.	G	C	8418.87	PASS	AC=46;AF=0.657;AN=70;DP=467;FS=0.000;Inbre
3431	chrY	6885366	.	T	C	1348.93	PASS	AC=6;AF=0.088;AN=68;DP=288;FS=0.000;Inbre
3432	chrY	6890973	.	G	A	1135.76	PASS	AC=6;AF=0.088;AN=68;DP=558;FS=0.000;Inbre
3433	chrY	6892596	.	T	G	1255.18	PASS	AC=6;AF=0.333;AN=18;DP=190;FS=0.000;MLEAC
3434	chrY	6894817	.	G	A	1334.18	PASS	AC=6;AF=0.086;AN=70;DP=756;FS=0.000;Inbre
3435	chrY	6895718	.	G	A	234.22	PASS	AC=2;AF=0.033;AN=60;DP=207;FS=0.000;Inbre
3436	chrY	6904485	.	C	T	1456.85	PASS	AC=6;AF=0.086;AN=70;DP=471;FS=0.000;Inbre
3437	chrY	6912992	.	G	T	18250.92	PASS	AC=70;AF=1.00;AN=70;DP=597;FS=0.0
3438	chrY	6913949	.	C	T	533.77	PASS	AC=4;AF=0.059;AN=68;DP=518;FS=0.000;Inbre
3439	chrY	6916511	.	A	T	1274.56	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=-1.734e+
3440	chrY	6921589	.	G	T	647.24	PASS	AC=6;AF=0.086;AN=70;DP=468;FS=0.000;Inbre
3441	chrY	6922657	.	C	T	5854.45	PASS	AC=46;AF=0.676;AN=68;DP=375;FS=0.000;Inbr
3442	chrY	6926894	.	C	G	3593.24	PASS	AC=14;AF=0.200;AN=70;DP=638;FS=0.000;Inbr
3443	chrY	6927527	.	A	G	509.90	my_snp_filter	AC=6;AF=0.086;AN=70;DP=664;FS=0.0
3444	chrY	6930408	.	C	G	803.88	PASS	AC=6;AF=0.088;AN=68;DP=543;FS=0.000;Inbre
3445	chrY	6931040	.	G	C	10018.01	PASS	AC=64;AF=1.00;AN=64;DP=347;FS=0.0
3446	chrY	6931590	.	T	C	1211.75	PASS	AC=6;AF=0.094;AN=64;DP=299;FS=0.000;Inbre
3447	chrY	6932654	.	G	C	147.62	PASS	AC=2;AF=0.029;AN=70;DP=590;FS=0.000;Inbre
3448	chrY	6932790	.	A	T	18970.92	PASS	AC=70;AF=1.00;AN=70;DP=630;FS=0.0
3449	chrY	6933016	.	T	C	1143.89	PASS	AC=6;AF=0.086;AN=70;DP=628;FS=0.000;Inbre
3450	chrY	6936866	.	T	C	39.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
3451	chrY	6936874	.	A	G	39.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
3452	chrY	6941218	.	A	G	9737.13	PASS	AC=56;AF=0.824;AN=68;DP=465;FS=0.000;Inbr
3453	chrY	6947173	.	A	G	9674.65	PASS	AC=46;AF=0.719;AN=64;DP=455;FS=0.000;Inbr
3454	chrY	6952633	.	G	C	720.07	PASS	AC=6;AF=0.086;AN=70;DP=529;FS=0.000;Inbre
3455	chrY	6953790	.	C	T	836.62	PASS	AC=6;AF=0.086;AN=70;DP=503;FS=0.000;Inbre
3456	chrY	6957102	.	A	G	879.21	PASS	AC=6;AF=0.091;AN=66;DP=302;FS=0.000;Inbre
3457	chrY	6957400	.	T	C	1099.38	PASS	AC=6;AF=0.086;AN=70;DP=551;FS=0.000;Inbre
3458	chrY	6958838	.	G	A	195.14	PASS	AC=2;AF=0.029;AN=70;DP=433;FS=0.000;Inbre
3459	chrY	6960376	.	A	G	591.23	PASS	AC=2;AF=0.029;AN=70;DP=545;FS=0.000;Inbre
3460	chrY	6961447	.	T	G	950.48	PASS	AC=6;AF=0.094;AN=64;DP=242;FS=0.000;Inbre
3461	chrY	6964531	.	A	G	2474.83	PASS	AC=12;AF=0.176;AN=68;DP=322;FS=0.000;Inbr
3462	chrY	6965613	.	C	T	2290.30	PASS	AC=12;AF=0.188;AN=64;DP=295;FS=0.000;Inbr
3463	chrY	6973364	.	T	A	13039	PASS	AC=50;AF=0.735;AN=68;DP=595;FS=0.000;Inbr
3464	chrY	6978940	.	G	A	10637.56	PASS	AC=50;AF=0.735;AN=68;DP=530;FS=0.0
3465	chrY	6984228	.	G	A	1769.26	PASS	AC=6;AF=0.086;AN=70;DP=651;FS=0.000;Inbre
3466	chrY	6984429	.	C	T	40.59	PASS	AC=2;AF=0.042;AN=48;DP=207;FS=0.000;Inbre
3467	chrY	6989718	.	G	A	835.30	PASS	AC=6;AF=0.086;AN=70;DP=533;FS=0.000;Inbre
3468	chrY	6999771	.	A	T	47.62	PASS	AC=4;AF=0.182;AN=22;DP=165;FS=0.000;Inbre
3469	chrY	7001800	.	G	C	1386.18	PASS	AC=6;AF=0.333;AN=18;DP=167;FS=0.000;MLEAC
3470	chrY	7002911	.	C	T	1289.43	PASS	AC=6;AF=0.300;AN=20;DP=136;FS=0.000;Inbre
3471	chrY	7002962	.	C	T	280.80	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=2.05;Cli
3472	chrY	7002968	.	A	G	282.83	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=-1.419e+
3473	chrY	7002983	.	G	A	142.68	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-1.041e+
3474	chrY	7002995	.	G	C	667.75	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=-1.737e+
3475	chrY	7003002	.	C	T	664.71	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=-1.159e+
3476	chrY	7003007	.	C	T	668.95	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=-7.500e-
3477	chrY	7003011	.	C	T	667.94	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=2.02;Cli
3478	chrY	7003020	.	A	C	660.86	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=0.580;Cl
3479	chrY	7003088	.	G	A	349.82	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=2.20;Cli
3480	chrY	7003106	.	G	T	274.52	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=2.61;Cli
3481	chrY	7003116	.	T	A	250.22	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=1.03;Cli
3482	chrY	7009187	.	C	T	82.92	PASS	AC=2;AF=0.038;AN=52;DP=145;FS=24.693;Inbr
3483	chrY	7010756	.	G	A	1207.95	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.000;Inbre
3484	chrY	7012698	.	G	A	259.71	PASS	AC=6;AF=0.086;AN=70;DP=273;FS=0.000;Inbre
3485	chrY	7017708	.	A	G	621.31	PASS	AC=6;AF=0.086;AN=70;DP=279;FS=0.000;Inbre
3486	chrY	7025662	.	G	A	145.63	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-2.310e-
3487	chrY	7025700	.	C	A	172.40	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQRankSum=
3488	chrY	7025718	.	T	G	392.64	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQRankSum=
3489	chrY	7025724	.	A	G	471.49	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQRankSum=
3490	chrY	7025735	.	G	A	469.34	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQRankSum=
3491	chrY	7025737	.	T	A	466.59	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQRankSum=
3492	chrY	7025747	.	G	A	474.84	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQRankSum=
3493	chrY	7025761	.	C	T	162.42	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-4.800e-
3494	chrY	7025995	.	G	A	450.66	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQRankSum=
3495	chrY	7026009	.	C	A	771.15	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQRankSum=
3496	chrY	7026017	.	C	G	769.86	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQRankSum=

3497	chrY	7026762	.	C	A	314.65	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-1.607e+
3498	chrY	7026779	.	G	A	311.23	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.49;Cli
3499	chrY	7026935	.	C	T	52.17	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=2.62;Cli
3500	chrY	7026941	.	G	T	52.18	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=2.85;Cli
3501	chrY	7027030	.	A	T	110.76	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
3502	chrY	7027037	.	T	A	266.67	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.362e+
3503	chrY	7027040	.	T	C	265.24	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-9.810e-
3504	chrY	7028062	.	A	C	43.33	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQRankSum=
3505	chrY	7028096	.	A	T	281.87	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-6.890e-
3506	chrY	7028103	.	G	A	291.40	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=2.76;Cli
3507	chrY	7028144	.	G	C	394.35	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=0.457;Cl
3508	chrY	7028165	.	C	T	325.85	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=0.164;Cl
3509	chrY	7028171	.	C	T	310.17	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=1.98;Cli
3510	chrY	7028172	.	C	T	313.16	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=1.33;Cli
3511	chrY	7028176	.	C	G	268.94	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=2.48;Cli
3512	chrY	7028179	.	G	T	263.25	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=2.93;Cli
3513	chrY	7028180	.	A	T	265.91	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.80;Cli
3514	chrY	7028182	.	G	C	265.84	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.81;Cli
3515	chrY	7028186	.	A	G	143.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=2.39;Cli
3516	chrY	7028191	.	C	T	56.45	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=2.04;Cli
3517	chrY	7030312	.	T	G	1036.34	PASS	AC=6;AF=0.086;AN=70;DP=557;FS=0.000;Inbre
3518	chrY	7034465	.	A	C	47.21	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQRankSum=
3519	chrY	7034477	.	A	C	57.05	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=-1.733e+
3520	chrY	7034480	.	A	C	55.39	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=-1.734e+
3521	chrY	7034704	.	G	A	230.06	PASS	AC=2;AF=0.029;AN=70;DP=498;FS=0.000;Inbre
3522	chrY	7038533	.	T	A	719.95	PASS	AC=4;AF=0.057;AN=70;DP=592;FS=0.000;Inbre
3523	chrY	7038957	.	G	C	127.42	PASS	AC=2;AF=0.029;AN=68;DP=284;FS=0.000;Inbre
3524	chrY	7040096	.	T	A	1498.22	PASS	AC=6;AF=0.086;AN=70;DP=334;FS=0.000;Inbre
3525	chrY	7043074	.	C	T	6510.32	PASS	AC=52;AF=0.743;AN=70;DP=392;FS=0.000;Inbr
3526	chrY	7054179	.	G	A	495.89	PASS	AC=2;AF=0.029;AN=70;DP=379;FS=0.000;Inbre
3527	chrY	7057466	.	T	C	898.71	PASS	AC=6;AF=0.088;AN=68;DP=518;FS=0.000;Inbre
3528	chrY	7060243	.	G	A	1516.18	PASS	AC=6;AF=0.333;AN=18;DP=203;FS=0.000;MLEAC
3529	chrY	7060992	.	A	G	862.39	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=-1.486e+
3530	chrY	7070119	.	G	A	198.56	PASS	AC=2;AF=0.029;AN=70;DP=457;FS=0.000;Inbre
3531	chrY	7072858	.	C	A	986.14	PASS	AC=6;AF=0.086;AN=70;DP=566;FS=0.000;Inbre
3532	chrY	7073299	.	G	A	289.08	PASS	AC=6;AF=0.086;AN=70;DP=413;FS=0.000;Inbre
3533	chrY	7073423	.	A	G	5028.10	PASS	AC=26;AF=1.00;AN=26;DP=197;FS=0.000;Inbre
3534	chrY	7078387	.	A	G	778.16	PASS	AC=16;AF=0.444;AN=36;DP=148;FS=0.000;Inbr
3535	chrY	7081561	.	T	C	2167.14	PASS	AC=24;AF=1.00;AN=24;DP=154;FS=0.000;Inbre
3536	chrY	7083553	.	A	G	10651.43	PASS	AC=50;AF=0.735;AN=68;DP=513;FS=0.000
3537	chrY	7084535	.	A	G	2530.87	PASS	AC=18;AF=1.00;AN=18;DP=103;FS=0.000;MLEAC
3538	chrY	7088609	.	A	G	504.11	PASS	AC=4;AF=0.057;AN=70;DP=587;FS=0.000;Inbre
3539	chrY	7090393	.	C	T	4695.88	PASS	AC=46;AF=0.719;AN=64;BaseQRankSum=1.33;Cl
3540	chrY	7092819	.	A	T	1363.84	PASS	AC=6;AF=0.086;AN=70;DP=641;FS=0.000;Inbre
3541	chrY	7096860	.	C	T	68.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3542	chrY	7100362	.	T	C	9968.99	PASS	AC=68;AF=1.00;AN=68;DP=369;FS=0.000;Inbre
3543	chrY	7100722	.	T	C	442.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.48;Cli
3544	chrY	7101405	.	C	T	166.41	PASS	AC=4;AF=0.065;AN=62;DP=255;FS=0.000;Inbre
3545	chrY	7107013	.	A	C,*	844.27	PASS	AC=7,5;AF=0.583,0.417;AN=12;DP=35;FS=0.00
3546	chrY	7107015	.	A	C,*	787.38	PASS	AC=5,5;AF=0.500,0.500;AN=10;DP=33;FS=0.00
3547	chrY	7107023	.	A	C	138.80	PASS	AC=5;AF=0.833;AN=6;BaseQRankSum=-7.360e-0
3548	chrY	7107025	.	A	C	208.20	PASS	AC=6;AF=0.750;AN=8;DP=17;FS=0.000;MLEAC=7
3549	chrY	7107027	.	A	C	208.20	PASS	AC=6;AF=0.750;AN=8;DP=17;FS=0.000;MLEAC=7
3550	chrY	7107029	.	A	C	208.20	PASS	AC=6;AF=0.750;AN=8;DP=16;FS=0.000;MLEAC=7
3551	chrY	7107031	.	A	C	207.36	PASS	AC=6;AF=0.750;AN=8;DP=16;FS=0.000;MLEAC=7
3552	chrY	7107033	.	A	C	207.36	PASS	AC=6;AF=0.750;AN=8;DP=16;FS=0.000;MLEAC=7
3553	chrY	7108256	.	C	T	276.94	PASS	AC=4;AF=0.067;AN=60;DP=187;FS=0.000;Inbre
3554	chrY	7108907	.	C	A	831.27	PASS	AC=6;AF=0.088;AN=68;DP=183;FS=0.000;Inbre
3555	chrY	7112510	.	G	C	370.02	PASS	AC=2;AF=0.030;AN=66;DP=310;FS=0.000;Inbre
3556	chrY	7112537	.	T	C	31.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.198;Cl
3557	chrY	7112545	.	T	C	34.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.200e-
3558	chrY	7112550	.	A	T	34.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
3559	chrY	7118738	.	T	C	2143.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=-1.404e+
3560	chrY	7123085	.	A	C	3611.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=1.10;Cli
3561	chrY	7123086	.	G	T	3611.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=1.93;Cli
3562	chrY	7123183	.	C	A	84.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=1.40;Cli
3563	chrY	7123189	.	C	A	81.54	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-1.567e+
3564	chrY	7123198	.	G	T	81.50	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=2.11;Cli
3565	chrY	7126871	.	A	T	1227.98	PASS	AC=6;AF=0.086;AN=70;DP=714;FS=0.000;Inbre
3566	chrY	7129691	.	A	C	754.36	PASS	AC=6;AF=0.091;AN=66;DP=286;FS=0.000;Inbre
3567	chrY	7131956	.	G	C	151.98	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=-7.420e-
3568	chrY	7131961	.	T	C	152.63	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=0.198;Cl
3569	chrY	7131966	.	G	C	88.84	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=0.736;Cl
3570	chrY	7132713	.	A	G	3697.26	PASS	AC=30;AF=1.00;AN=30;DP=197;FS=0.000;Inbre
3571	chrY	7133986	.	C	G	5575.17	PASS	AC=54;AF=1.00;AN=54;DP=202;FS=0.000;Inbre
3572	chrY	7144630	.	C	T	380.15	PASS	AC=2;AF=0.029;AN=70;DP=557;FS=0.000;Inbre

3573	chrY	7146647	.	C	T	890.66	PASS	AC=6;AF=0.086;AN=70;DP=444;FS=0.000;Inbre
3574	chrY	7152131	.	C	T	5293.19	PASS	AC=38;AF=0.559;AN=68;DP=369;FS=0.000;Inbr
3575	chrY	7153509	.	A	G	13696.25	PASS	AC=40;AF=0.571;AN=70;DP=716;FS=0.
3576	chrY	7153953	.	G	A	964.20	PASS	AC=6;AF=0.231;AN=26;DP=130;FS=0.000;Inbre
3577	chrY	7158634	.	C	T	547.48	PASS	AC=6;AF=0.086;AN=70;DP=412;FS=0.000;Inbre
3578	chrY	7159950	.	G	A	6610.41	PASS	AC=48;AF=0.727;AN=66;DP=343;FS=0.000;Inbr
3579	chrY	7164283	.	C	T	2755.88	PASS	AC=18;AF=1.00;AN=18;DP=109;FS=0.000;MLEAC
3580	chrY	7165589	.	T	C	126.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.28;Cli
3581	chrY	7165692	.	G	C	689.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.35;Cli
3582	chrY	7165693	.	T	C	910.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.579e+
3583	chrY	7166132	.	G	A	108.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.491e+
3584	chrY	7166134	.	C	T	185.74	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.778;Cl
3585	chrY	7166142	.	A	G	79.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.382;Cl
3586	chrY	7169899	.	C	T	1257.20	PASS	AC=6;AF=0.333;AN=18;DP=160;FS=0.000;MLEAC
3587	chrY	7172700	.	C	G	1365.50	PASS	AC=6;AF=0.086;AN=70;DP=358;FS=0.000;Inbre
3588	chrY	7173143	.	A	G	22403.12	PASS	AC=57;AF=0.814;AN=70;BaseQRankSum
3589	chrY	7177189	.	A	G	10754.98	PASS	AC=68;AF=1.00;AN=68;DP=362;FS=0.0
3590	chrY	7179772	.	C	T	36.61	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-1.307e+
3591	chrY	7179784	.	C	T	401.35	PASS	AC=6;AF=0.111;AN=54;DP=114;FS=0.000;Inbre
3592	chrY	7182258	.	C	T	1102.97	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.540e+
3593	chrY	7188420	.	C	T	19750	PASS	AC=52;AF=0.743;AN=70;DP=802;FS=0.000;Inbr
3594	chrY	7188451	.	T	G	347.17	PASS	AC=2;AF=0.029;AN=70;DP=730;FS=0.000;Inbre
3595	chrY	7189535	.	G	A	1303.21	PASS	AC=6;AF=0.086;AN=70;DP=548;FS=0.000;Inbre
3596	chrY	7192731	.	C	A	340.14	PASS	AC=2;AF=0.029;AN=70;DP=481;FS=0.000;Inbre
3597	chrY	7196061	.	T	C	38.40	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.231e+
3598	chrY	7197052	.	A	T	1405.29	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.000;Inbre
3599	chrY	7197103	.	A	G	1358.67	PASS	AC=6;AF=0.115;AN=52;DP=205;FS=0.000;Inbre
3600	chrY	7198973	.	T	A	1638.93	PASS	AC=30;AF=0.625;AN=48;DP=165;FS=0.000;Inbr
3601	chrY	7202703	.	T	C	10783.55	PASS	AC=54;AF=0.818;AN=66;DP=463;FS=0.
3602	chrY	7203967	.	T	C	981.29	PASS	AC=18;AF=1.00;AN=18;DP=57;FS=0.000;MLEAC
3603	chrY	7211965	.	A	C	55.51	PASS	AC=2;AF=0.050;AN=40;DP=190;FS=0.000;Inbre
3604	chrY	7211969	.	A	C	51.31	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=-7.360e-
3605	chrY	7211973	.	A	C	51.16	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-7.360e-
3606	chrY	7213725	.	A	T	1375.38	PASS	AC=6;AF=0.086;AN=70;DP=560;FS=0.000;Inbre
3607	chrY	7217239	.	C	T	198.95	PASS	AC=2;AF=0.059;AN=34;DP=147;FS=0.000;Inbre
3608	chrY	7217702	.	G	C	1111.83	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.54;Cli
3609	chrY	7218079	.	A	G	12504.78	PASS	AC=52;AF=0.813;AN=64;BaseQRankSum
3610	chrY	7218128	.	T	C	12686.63	PASS	AC=50;AF=0.735;AN=68;DP=598;FS=0.
3611	chrY	7218538	.	G	C	610.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.960e-
3612	chrY	7218540	.	C	G	609.45	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.310e-
3613	chrY	7218552	.	C	A	261.54	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.700e-
3614	chrY	7220727	.	G	A	12526.93	PASS	AC=68;AF=1.00;AN=68;DP=428;FS=0.0
3615	chrY	7223308	.	T	G	107.55	PASS	AC=6;AF=0.100;AN=60;DP=138;FS=0.000;Inbre
3616	chrY	7225331	.	G	A	413.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.10;Cli
3617	chrY	7240836	.	A	C	1229.31	PASS	AC=6;AF=0.086;AN=70;DP=462;FS=0.000;Inbre
3618	chrY	7241249	.	G	A	3429.20	PASS	AC=40;AF=0.645;AN=62;DP=302;FS=0.000;Inbr
3619	chrY	7246839	.	G	T	279.31	PASS	AC=2;AF=0.037;AN=54;DP=237;FS=0.000;Inbre
3620	chrY	7247717	.	C	T	2984.34	PASS	AC=34;AF=0.654;AN=52;DP=240;FS=0.000;Inbr
3621	chrY	7250235	.	G	A	3508.31	PASS	AC=32;AF=1.00;AN=32;BaseQRankSum=0.727;Cl
3622	chrY	7250799	.	C	G	929.05	PASS	AC=6;AF=0.086;AN=70;DP=729;FS=0.000;Inbre
3623	chrY	7254185	.	G	C	30.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-2.900e-
3624	chrY	7254187	.	G	A	30.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-8.690e-
3625	chrY	7257494	.	A	T	864.25	PASS	AC=6;AF=0.103;AN=58;DP=195;FS=0.000;Inbre
3626	chrY	7259850	.	A	G	525.64	PASS	AC=2;AF=0.029;AN=70;DP=409;FS=0.000;Inbre
3627	chrY	7264987	.	C	G	1744.42	PASS	AC=6;AF=0.086;AN=70;DP=499;FS=0.000;Inbre
3628	chrY	7271355	.	C	T	322.78	PASS	AC=4;AF=0.059;AN=68;DP=325;FS=0.000;Inbre
3629	chrY	7272375	.	T	C	1731.86	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.60;Cli
3630	chrY	7273163	.	A	G	462.14	PASS	AC=2;AF=0.029;AN=68;DP=343;FS=0.000;Inbre
3631	chrY	7280398	.	A	G	7548.44	PASS	AC=42;AF=0.636;AN=66;DP=432;FS=0.000;Inbr
3632	chrY	7289091	.	T	A	216.46	PASS	AC=2;AF=0.029;AN=70;DP=367;FS=0.000;Inbre
3633	chrY	7289301	.	G	T	43.36	PASS	AC=2;AF=0.045;AN=44;DP=156;FS=0.000;Inbre
3634	chrY	7293744	.	C	T	222.55	PASS	AC=2;AF=0.033;AN=60;DP=163;FS=0.000;Inbre
3635	chrY	7299397	.	C	A	956.19	PASS	AC=6;AF=0.333;AN=18;DP=144;FS=0.000;MLEAC
3636	chrY	7303056	.	C	T	1260.07	PASS	AC=6;AF=0.115;AN=52;DP=166;FS=0.000;Inbre
3637	chrY	7306539	.	G	C	4278.32	PASS	AC=46;AF=1.00;AN=46;DP=174;FS=0.000;Inbre
3638	chrY	7307496	.	G	T	473.50	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=0.736;Cl
3639	chrY	7309148	.	G	A	1531.26	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.000;Inbre
3640	chrY	7309210	.	T	G	1251.59	PASS	AC=6;AF=0.086;AN=70;DP=426;FS=0.000;Inbre
3641	chrY	7310355	.	C	T	530.25	PASS	AC=12;AF=0.400;AN=30;DP=194;FS=0.000;Inbr
3642	chrY	7311620	.	A	T	80.11	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.231e+
3643	chrY	7311623	.	T	C	68.25	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-5.500e-
3644	chrY	7311624	.	C	A	65.97	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.495e+
3645	chrY	7318551	.	G	T	1036.57	PASS	AC=6;AF=0.333;AN=18;DP=113;FS=0.000;MLEAC
3646	chrY	7320623	.	G	A	1358.18	PASS	AC=6;AF=0.086;AN=70;DP=585;FS=0.000;Inbre
3647	chrY	7320813	.	A	T	421.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.01;Cli
3648	chrY	7321330	.	A	C	10758	PASS	AC=60;AF=1.00;AN=60;DP=389;FS=0.000;Inbre

3649	chrY	7329532	.	G	C	466.36	PASS	AC=6;AF=0.091;AN=66;DP=291;FS=0.000;Inbre
3650	chrY	7330034	.	G	T	1220.58	PASS	AC=6;AF=0.086;AN=70;DP=456;FS=0.000;Inbre
3651	chrY	7332132	.	C	T	1386.25	PASS	AC=6;AF=0.088;AN=68;DP=477;FS=0.000;Inbre
3652	chrY	7335904	.	A	G	213.07	PASS	AC=2;AF=0.030;AN=66;DP=266;FS=0.000;Inbre
3653	chrY	7336797	.	A	T	2485.69	PASS	AC=12;AF=0.176;AN=68;DP=409;FS=0.000;Inbr
3654	chrY	7340314	.	C	T	5549.35	PASS	AC=44;AF=1.00;AN=44;DP=202;FS=0.000;Inbre
3655	chrY	7341035	.	G	A	308.29	PASS	AC=2;AF=0.034;AN=58;DP=178;FS=0.000;Inbre
3656	chrY	7341797	.	G	T	157.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.540e-
3657	chrY	7341800	.	C	A	135.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.25;Cli
3658	chrY	7341804	.	G	T	93.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.061;Cl
3659	chrY	7341961	.	A	G	56.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-9.620e-
3660	chrY	7341988	.	C	T	193.81	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.053;Cl
3661	chrY	7355532	.	G	T	287.55	PASS	AC=2;AF=0.029;AN=68;DP=643;FS=0.000;Inbre
3662	chrY	7356357	.	T	C	143.12	PASS	AC=2;AF=0.031;AN=64;DP=264;FS=0.000;Inbre
3663	chrY	7362192	.	C	G	91.75	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-5.360e-
3664	chrY	7362206	.	T	C	83.70	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=-9.100e-
3665	chrY	7362211	.	G	A	79.55	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=-1.189e+
3666	chrY	7362260	.	T	C	31.40	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-1.179e+
3667	chrY	7362262	.	G	A	31.83	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=0.067;Cl
3668	chrY	7364282	.	G	A	7007.97	PASS	AC=62;AF=1.00;AN=62;DP=240;FS=0.000;Inbre
3669	chrY	7374464	.	G	A	4841.34	PASS	AC=42;AF=0.700;AN=60;DP=324;FS=0.000;Inbr
3670	chrY	7375015	.	T	C	13228.90	PASS	AC=66;AF=1.00;AN=66;DP=449;FS=0.0
3671	chrY	7380778	.	G	C	498.92	PASS	AC=4;AF=0.057;AN=70;DP=608;FS=0.000;Inbre
3672	chrY	7384470	.	C	T	3076.19	PASS	AC=38;AF=0.613;AN=62;DP=264;FS=0.000;Inbr
3673	chrY	7387961	.	G	T	60.23	PASS	AC=2;AF=0.038;AN=52;DP=176;FS=0.000;Inbre
3674	chrY	7391109	.	C	T	7888.28	PASS	AC=34;AF=1.00;AN=34;DP=179;FS=0.000;Inbre
3675	chrY	7391110	.	A	G	7978.28	PASS	AC=34;AF=1.00;AN=34;DP=180;FS=0.000;Inbre
3676	chrY	7391117	.	C	T	8347.18	PASS	AC=32;AF=1.00;AN=32;DP=190;FS=0.000;Inbre
3677	chrY	7391134	.	C	T	8667	PASS	AC=32;AF=1.00;AN=32;BaseQRankSum=0.00;Cli
3678	chrY	7391135	.	A	G	8667	PASS	AC=32;AF=1.00;AN=32;BaseQRankSum=1.35;Cli
3679	chrY	7391142	.	G	A	8972.98	PASS	AC=32;AF=1.00;AN=32;BaseQRankSum=1.60;Cli
3680	chrY	7391161	.	T	C	9635.94	PASS	AC=32;AF=1.00;AN=32;DP=251;FS=0.000;Inbre
3681	chrY	7391164	.	A	G	9466.93	PASS	AC=32;AF=1.00;AN=32;DP=260;FS=0.000;Inbre
3682	chrY	7393819	.	G	A	168.07	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.28;Cli
3683	chrY	7393835	.	T	A	201.53	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-3.130e-
3684	chrY	7394383	.	C	A	97.30	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.100e-
3685	chrY	7394387	.	A	T	96.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.100e-
3686	chrY	7394394	.	A	T	99.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-7.880e-
3687	chrY	7395806	.	G	C	8276	PASS	AC=58;AF=0.829;AN=70;DP=369;FS=0.000;Inbr
3688	chrY	7396487	.	C	G	1142.63	PASS	AC=6;AF=0.091;AN=66;DP=289;FS=0.000;Inbre
3689	chrY	7396970	.	T	A	852.06	PASS	AC=6;AF=0.086;AN=70;DP=409;FS=0.000;Inbre
3690	chrY	7398260	.	G	T	1166.32	PASS	AC=6;AF=0.086;AN=70;DP=458;FS=0.000;Inbre
3691	chrY	7398704	.	T	C	314.50	PASS	AC=4;AF=0.057;AN=70;DP=343;FS=0.000;Inbre
3692	chrY	7402264	.	C	A	693.45	PASS	AC=6;AF=0.088;AN=68;DP=328;FS=0.000;Inbre
3693	chrY	7406806	.	T	G	1043.96	PASS	AC=6;AF=0.094;AN=64;DP=317;FS=0.000;Inbre
3694	chrY	7409655	.	T	C	1481.78	PASS	AC=26;AF=0.481;AN=54;DP=220;FS=0.000;Inbr
3695	chrY	7410009	.	T	C	735.73	PASS	AC=6;AF=0.086;AN=70;DP=422;FS=0.000;Inbre
3696	chrY	7415220	.	G	C	1437.46	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.000;Inbre
3697	chrY	7420609	.	A	T	232.54	PASS	AC=6;AF=0.231;AN=26;DP=197;FS=0.000;Inbre
3698	chrY	7423722	.	T	C	11850.80	PASS	AC=54;AF=0.818;AN=66;DP=521;FS=0.0
3699	chrY	7425541	.	T	C	12149.73	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum=
3700	chrY	7428072	.	A	G	336.45	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=0.198;Cl
3701	chrY	7428075	.	G	C	337.69	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=2.74;Cli
3702	chrY	7428457	.	T	C	120.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
3703	chrY	7428503	.	C	T	196.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-8.120e-
3704	chrY	7428558	.	A	G	238.30	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-5.710e-
3705	chrY	7428577	.	T	C	32.29	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
3706	chrY	7429635	.	A	G	30.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3707	chrY	7429647	.	T	G	33.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3708	chrY	7431124	.	T	C	60.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3709	chrY	7431131	.	T	C	57.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3710	chrY	7431134	.	A	G	57.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
3711	chrY	7431160	.	A	G	212.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.135e+
3712	chrY	7431164	.	A	C	209.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.114e+
3713	chrY	7431177	.	G	C	11631.19	PASS	AC=45;AF=0.643;AN=70;BaseQRankSum
3714	chrY	7438251	.	C	T	1139.98	PASS	AC=6;AF=0.273;AN=22;DP=148;FS=0.000;Inbre
3715	chrY	7446194	.	T	A	1056.83	my_snp_filter	AC=6;AF=0.097;AN=62;DP=211;FS=0.0
3716	chrY	7450355	.	G	T	1027.55	PASS	AC=6;AF=0.091;AN=66;DP=293;FS=0.000;Inbre
3717	chrY	7451254	.	G	A	557.42	PASS	AC=14;AF=1.00;AN=14;DP=36;FS=0.000;MLEAC=
3718	chrY	7452920	.	T	C	119.03	my_snp_filter	AC=2;AF=0.029;AN=70;DP=267;FS=0.0
3719	chrY	7453594	.	T	C	31.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
3720	chrY	7458829	.	T	C	1010.65	my_snp_filter	AC=6;AF=0.086;AN=70;DP=687;FS=0.0
3721	chrY	7459474	.	A	G	6822.11	my_snp_filter	AC=64;AF=1.00;AN=64;DP=238;FS=0.0
3722	chrY	7464530	.	A	G	715.13	my_snp_filter	AC=4;AF=0.057;AN=70;DP=541;FS=0.0
3723	chrY	7471514	.	T	A	382.58	my_snp_filter	AC=6;AF=0.086;AN=70;DP=340;FS=0.0
3724	chrY	7474117	.	C	T	1998.45	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum

3725	chrY	7474294	.	T	C	12061.85	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
3726	chrY	7474805	.	A	C	208.83	my_snp_filter	AC=6;AF=0.600;AN=10;DP=13;FS=0.00
3727	chrY	7477530	.	T	C	91.59	my_snp_filter	AC=4;AF=0.182;AN=22;DP=134;FS=0.0
3728	chrY	7479693	.	C	G	89.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
3729	chrY	7490451	.	G	A	491.49	my_snp_filter	AC=12;AF=1.00;AN=12;DP=25;FS=0.00
3730	chrY	7490497	.	T	C	44.41	my_snp_filter	AC=2;AF=0.091;AN=22;DP=25;FS=0.00
3731	chrY	7499495	.	A	G	966.81	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
3732	chrY	7510771	.	G	A	222.52	PASS	AC=4;AF=0.057;AN=70;DP=300;FS=0.000;Inbre
3733	chrY	7511356	.	T	A	30.87	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
3734	chrY	7511359	.	C	T	30.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
3735	chrY	7511362	.	C	A	30.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
3736	chrY	7512329	.	G	A	1020.88	PASS	AC=6;AF=0.088;AN=68;DP=318;FS=0.000;Inbre
3737	chrY	7514216	.	C	A	951.90	PASS	AC=6;AF=0.086;AN=70;DP=317;FS=0.000;Inbre
3738	chrY	7517055	.	C	G	6325.97	PASS	AC=52;AF=0.813;AN=64;DP=319;FS=0.000;Inbr
3739	chrY	7520390	.	A	G	619.35	PASS	AC=6;AF=0.086;AN=70;DP=494;FS=0.000;Inbre
3740	chrY	7522256	.	A	G	847.38	PASS	AC=2;AF=0.029;AN=70;DP=445;FS=0.000;Inbre
3741	chrY	7526451	.	G	A	1431.48	PASS	AC=6;AF=0.086;AN=70;DP=610;FS=0.000;Inbre
3742	chrY	7527930	.	G	A	1771.90	PASS	AC=6;AF=0.088;AN=68;DP=672;FS=0.000;Inbre
3743	chrY	7530417	.	C	A	324.30	PASS	AC=2;AF=0.029;AN=70;DP=635;FS=0.000;Inbre
3744	chrY	7531194	.	C	T	874.97	PASS	AC=4;AF=0.061;AN=66;DP=556;FS=0.000;Inbre
3745	chrY	7534418	.	T	G	1044.50	PASS	AC=18;AF=0.450;AN=40;BaseQRankSum=0.731;C
3746	chrY	7534525	.	C	G	31.89	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.922;Cl
3747	chrY	7534593	.	G	T	181.62	PASS	AC=6;AF=0.097;AN=62;DP=142;FS=0.000;Inbre
3748	chrY	7534645	.	A	C	684.39	PASS	AC=16;AF=1.00;AN=16;DP=69;FS=0.000;MLEAC=
3749	chrY	7534646	.	A	C	107.13	PASS	AC=4;AF=0.133;AN=30;DP=84;FS=0.000;Inbre
3750	chrY	7534647	.	A	C	81.53	PASS	AC=2;AF=0.077;AN=26;DP=98;FS=0.000;Inbre
3751	chrY	7535856	.	A	T	33	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
3752	chrY	7540450	.	A	G	1097.34	PASS	AC=6;AF=0.100;AN=60;DP=221;FS=0.000;Inbre
3753	chrY	7543143	.	A	T	923.83	PASS	AC=6;AF=0.088;AN=68;DP=308;FS=0.000;Inbre
3754	chrY	7545653	.	G	A	274.63	PASS	AC=2;AF=0.029;AN=70;DP=474;FS=0.000;Inbre
3755	chrY	7547127	.	T	C	691.08	PASS	AC=6;AF=0.088;AN=68;DP=446;FS=0.000;Inbre
3756	chrY	7548138	.	C	T	304.76	PASS	AC=2;AF=0.031;AN=64;DP=427;FS=0.000;Inbre
3757	chrY	7548900	.	A	G	17427.91	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
3758	chrY	7549445	.	A	T	23978.87	PASS	AC=68;AF=1.00;AN=68;DP=757;FS=0.0
3759	chrY	7550780	.	C	T	595.31	PASS	AC=6;AF=0.086;AN=70;DP=413;FS=0.000;Inbre
3760	chrY	7551043	.	A	G	10260.33	PASS	AC=38;AF=0.559;AN=68;DP=561;FS=0.0
3761	chrY	7556207	.	G	A	1404.18	PASS	AC=6;AF=0.086;AN=70;DP=681;FS=0.000;Inbre
3762	chrY	7557268	.	C	T	605.44	PASS	AC=6;AF=0.086;AN=70;DP=447;FS=0.000;Inbre
3763	chrY	7568568	.	C	A	1472.04	PASS	AC=6;AF=0.086;AN=70;DP=410;FS=0.000;Inbre
3764	chrY	7570822	.	C	G	19947.88	PASS	AC=70;AF=1.00;AN=70;DP=664;FS=0.0
3765	chrY	7575406	.	T	C	799.46	PASS	AC=8;AF=0.400;AN=20;DP=146;FS=0.000;Inbre
3766	chrY	7578040	.	A	C	184.51	PASS	AC=6;AF=0.250;AN=24;DP=180;FS=0.000;Inbre
3767	chrY	7578261	.	C	T	1465.02	PASS	AC=6;AF=0.086;AN=70;DP=712;FS=0.000;Inbre
3768	chrY	7581976	.	G	A	107.24	PASS	AC=2;AF=0.077;AN=26;DP=134;FS=0.000;Inbre
3769	chrY	7582425	.	C	T	478.44	PASS	AC=2;AF=0.029;AN=70;DP=416;FS=0.000;Inbre
3770	chrY	7582754	.	G	A	1288.95	PASS	AC=6;AF=0.088;AN=68;DP=246;FS=0.000;Inbre
3771	chrY	7584247	.	G	C	3623.41	PASS	AC=48;AF=0.727;AN=66;DP=287;FS=0.000;Inbr
3772	chrY	7586195	.	C	T	204.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-4.260e-
3773	chrY	7586196	.	T	G	204.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.189e+
3774	chrY	7586343	.	C	G	131.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.950;Cl
3775	chrY	7586344	.	G	A	131.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.950;Cl
3776	chrY	7586349	.	G	C	134.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.05;Cli
3777	chrY	7586355	.	C	T	134.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.440e+
3778	chrY	7586356	.	A	T	134.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.518e+
3779	chrY	7587362	.	G	T	800.44	PASS	AC=6;AF=0.088;AN=68;DP=500;FS=0.000;Inbre
3780	chrY	7605776	.	C	T	1306.56	PASS	AC=6;AF=0.086;AN=70;DP=490;FS=0.000;Inbre
3781	chrY	7614289	.	A	G	204.54	PASS	AC=2;AF=0.029;AN=70;DP=449;FS=0.000;Inbre
3782	chrY	7616766	.	A	C	230.35	PASS	AC=2;AF=0.029;AN=70;DP=518;FS=0.000;Inbre
3783	chrY	7617817	.	G	A	901.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.39;Cli
3784	chrY	7620552	.	C	A	1452.36	PASS	AC=6;AF=0.086;AN=70;DP=573;FS=0.000;Inbre
3785	chrY	7626218	.	T	C	564.10	PASS	AC=6;AF=0.120;AN=50;DP=136;FS=0.000;Inbre
3786	chrY	7628900	.	A	G	15777.94	PASS	AC=70;AF=1.00;AN=70;DP=541;FS=0.0
3787	chrY	7629098	.	T	C	11136.61	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum
3788	chrY	7629583	.	G	A	7085.44	PASS	AC=54;AF=0.818;AN=66;DP=332;FS=0.000;Inbr
3789	chrY	7631033	.	A	G	1009.44	PASS	AC=6;AF=0.214;AN=28;DP=179;FS=0.000;Inbre
3790	chrY	7632898	.	C	A	1014.75	PASS	AC=6;AF=0.300;AN=20;DP=166;FS=0.000;Inbre
3791	chrY	7633726	.	C	T	193.75	PASS	AC=2;AF=0.029;AN=70;DP=420;FS=0.000;Inbre
3792	chrY	7637836	.	A	G	211.87	PASS	AC=2;AF=0.036;AN=56;DP=218;FS=0.000;Inbre
3793	chrY	7638779	.	A	C	5151.63	PASS	AC=48;AF=0.727;AN=66;DP=355;FS=0.000;Inbr
3794	chrY	7643541	.	A	G	866.44	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=-7.270e-
3795	chrY	7643984	.	C	G	2237.38	PASS	AC=6;AF=0.086;AN=70;DP=348;FS=0.000;Inbre
3796	chrY	7643998	.	A	G	2206.61	PASS	AC=6;AF=0.086;AN=70;DP=355;FS=0.000;Inbre
3797	chrY	7647357	.	A	G	6796.04	PASS	AC=60;AF=1.00;AN=60;DP=246;FS=0.000;Inbre
3798	chrY	7649354	.	T	G	44.55	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-9.500e-
3799	chrY	7650121	.	G	A	220.54	PASS	AC=2;AF=0.029;AN=68;DP=285;FS=0.000;Inbre
3800	chrY	7650752	.	C	T	168.34	PASS	AC=6;AF=0.250;AN=24;DP=171;FS=0.000;Inbre

3801	chrY	7653382	.	C	T	42.50	PASS	AC=2;AF=0.029;AN=70;DP=354;FS=0.000;Inbre
3802	chrY	7655193	.	A	G	967.86	PASS	AC=6;AF=0.100;AN=60;DP=191;FS=0.000;Inbre
3803	chrY	7664979	.	T	A	1232.60	PASS	AC=6;AF=0.086;AN=70;DP=390;FS=0.000;Inbre
3804	chrY	7671399	.	A	G	6848.32	PASS	AC=50;AF=0.735;AN=68;DP=393;FS=0.000;Inbr
3805	chrY	7671530	.	A	G	6423.99	PASS	AC=48;AF=0.800;AN=60;DP=271;FS=0.000;Inbr
3806	chrY	7671535	.	T	C	9185.03	PASS	AC=60;AF=1.00;AN=60;DP=265;FS=0.000;Inbre
3807	chrY	7674905	.	C	T	1610.07	PASS	AC=6;AF=0.086;AN=70;DP=464;FS=0.000;Inbre
3808	chrY	7675570	.	C	T	3384.36	PASS	AC=36;AF=0.545;AN=66;DP=294;FS=0.000;Inbr
3809	chrY	7676386	.	A	G	31.08	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.00;Cli
3810	chrY	7676409	.	T	C	248.26	PASS	AC=2;AF=0.029;AN=68;DP=287;FS=0.000;Inbre
3811	chrY	7681275	.	C	T	1503.09	PASS	AC=6;AF=0.086;AN=70;DP=387;FS=0.000;Inbre
3812	chrY	7681806	.	A	G	202	PASS	AC=4;AF=0.182;AN=22;DP=169;FS=0.000;Inbre
3813	chrY	7682654	.	G	C	823.66	PASS	AC=4;AF=0.061;AN=66;DP=537;FS=0.000;Inbre
3814	chrY	7683539	.	C	T	522.57	PASS	AC=2;AF=0.029;AN=70;DP=412;FS=0.000;Inbre
3815	chrY	7690182	.	A	T	2686.11	PASS	AC=12;AF=0.171;AN=70;DP=359;FS=0.000;Inbr
3816	chrY	7691543	.	C	T	220.79	PASS	AC=2;AF=0.029;AN=70;DP=412;FS=0.000;Inbre
3817	chrY	7694041	.	C	G	782.60	PASS	AC=6;AF=0.086;AN=70;DP=509;FS=0.000;Inbre
3818	chrY	7699333	.	G	A	11115.23	PASS	AC=44;AF=0.647;AN=68;DP=453;FS=0.000
3819	chrY	7699334	.	G	C	11139.23	PASS	AC=44;AF=0.647;AN=68;DP=452;FS=0.000
3820	chrY	7699339	.	T	A	10602.85	PASS	AC=44;AF=0.647;AN=68;BaseQRankSum=-7.440e+
3821	chrY	7699953	.	T	C	631.38	PASS	AC=6;AF=0.086;AN=70;DP=548;FS=0.000;Inbre
3822	chrY	7701588	.	G	A	285.37	PASS	AC=2;AF=0.029;AN=70;DP=314;FS=0.000;Inbre
3823	chrY	7702437	.	A	G	934.48	PASS	AC=6;AF=0.086;AN=70;DP=518;FS=0.000;Inbre
3824	chrY	7702973	.	A	T	6480.42	PASS	AC=48;AF=0.800;AN=60;DP=322;FS=0.000;Inbr
3825	chrY	7708883	.	T	G	39.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=-7.440e+
3826	chrY	7710366	.	A	C	1345.87	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-7.440e+
3827	chrY	7710511	.	G	A	445.02	PASS	AC=2;AF=0.111;AN=18;DP=155;FS=0.000;MLEAC
3828	chrY	7711495	.	G	A	1835.75	PASS	AC=6;AF=0.300;AN=20;DP=218;FS=0.000;Inbre
3829	chrY	7711996	.	T	C	406.43	PASS	AC=2;AF=0.100;AN=20;DP=157;FS=0.000;Inbre
3830	chrY	7714986	.	G	T	5772.25	PASS	AC=52;AF=0.867;AN=60;DP=255;FS=0.000;Inbr
3831	chrY	7715846	.	A	C	39.38	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-7.360e-
3832	chrY	7717741	.	T	C	82.44	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=0.804;Cl
3833	chrY	7721500	.	G	A	504.52	PASS	AC=4;AF=0.067;AN=60;DP=251;FS=0.000;Inbre
3834	chrY	7722315	.	G	T	1317.38	PASS	AC=6;AF=0.086;AN=70;DP=385;FS=0.000;Inbre
3835	chrY	7723814	.	G	A	147.09	PASS	AC=4;AF=0.182;AN=22;DP=88;FS=0.000;Inbre
3836	chrY	7726849	.	G	A	8670.08	PASS	AC=56;AF=0.824;AN=68;DP=382;FS=0.000;Inbr
3837	chrY	7727088	.	G	A	7353.87	PASS	AC=42;AF=0.656;AN=64;DP=391;FS=0.000;Inbr
3838	chrY	7731706	.	G	A	1559.79	PASS	AC=6;AF=0.086;AN=70;DP=471;FS=0.000;Inbre
3839	chrY	7738280	.	A	C	523.64	PASS	AC=2;AF=0.029;AN=68;DP=476;FS=0.000;Inbre
3840	chrY	7740265	.	G	A	109.40	PASS	AC=2;AF=0.029;AN=70;DP=423;FS=0.000;Inbre
3841	chrY	7742928	.	C	T	31.82	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.495e+
3842	chrY	7747987	.	T	C	36.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
3843	chrY	7747992	.	A	G	36.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
3844	chrY	7750789	.	A	G	883.43	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-1.734e+
3845	chrY	7751468	.	G	C	218.45	PASS	AC=2;AF=0.029;AN=70;DP=366;FS=0.000;Inbre
3846	chrY	7751812	.	T	C	2887.05	PASS	AC=12;AF=0.171;AN=70;DP=452;FS=0.000;Inbr
3847	chrY	7755382	.	A	C	102.50	PASS	AC=2;AF=0.029;AN=70;DP=452;FS=0.000;Inbre
3848	chrY	7757444	.	T	C	888.71	PASS	AC=6;AF=0.086;AN=70;DP=487;FS=0.000;Inbre
3849	chrY	7758127	.	C	T	12617.79	PASS	AC=52;AF=0.743;AN=70;DP=564;FS=0.000
3850	chrY	7759944	.	A	G	12202.89	PASS	AC=64;AF=1.00;AN=64;DP=428;FS=0.000
3851	chrY	7760736	.	G	T	1461.52	PASS	AC=6;AF=0.086;AN=70;DP=498;FS=0.000;Inbre
3852	chrY	7762037	.	T	C	341.38	PASS	AC=2;AF=0.029;AN=68;DP=305;FS=0.000;Inbre
3853	chrY	7762947	.	C	T	11712.02	PASS	AC=68;AF=1.00;AN=68;DP=399;FS=0.000
3854	chrY	7766712	.	C	T	6820.10	PASS	AC=60;AF=1.00;AN=60;DP=240;FS=0.000;Inbre
3855	chrY	7767509	.	G	C	10471.32	PASS	AC=46;AF=0.657;AN=70;DP=510;FS=0.000
3856	chrY	7767839	.	A	T	48.40	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.310e-
3857	chrY	7770244	.	A	C	1633.49	PASS	AC=6;AF=0.086;AN=70;DP=485;FS=0.000;Inbre
3858	chrY	7771131	.	A	G	14263.96	PASS	AC=68;AF=1.00;AN=68;DP=480;FS=0.000
3859	chrY	7772417	.	T	A	103.43	PASS	AC=2;AF=0.029;AN=70;DP=398;FS=0.000;Inbre
3860	chrY	7773172	.	T	A	1059.84	PASS	AC=6;AF=0.125;AN=48;DP=178;FS=0.000;Inbre
3861	chrY	7786240	.	C	G	1199.35	PASS	AC=6;AF=0.086;AN=70;DP=508;FS=0.000;Inbre
3862	chrY	7788727	.	C	T	384.52	PASS	AC=6;AF=0.086;AN=70;DP=306;FS=0.000;Inbre
3863	chrY	7791102	.	A	T	479.38	PASS	AC=2;AF=0.029;AN=70;DP=314;FS=0.000;Inbre
3864	chrY	7792496	.	G	A	1097.01	PASS	AC=6;AF=0.086;AN=70;DP=405;FS=0.000;Inbre
3865	chrY	7792789	.	A	G	12621.71	PASS	AC=56;AF=0.824;AN=68;BaseQRankSum=-9.220e-
3866	chrY	7797386	.	T	G	9667.82	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=0.751;C
3867	chrY	7800481	.	G	A	1062.99	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.000;Inbre
3868	chrY	7801788	.	C	T	595.06	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.000;Inbre
3869	chrY	7805127	.	C	T	1332.55	PASS	AC=6;AF=0.088;AN=68;DP=456;FS=0.000;Inbre
3870	chrY	7806898	.	C	A	1609.34	PASS	AC=6;AF=0.086;AN=70;DP=545;FS=0.000;Inbre
3871	chrY	7811508	.	A	G	105.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.361;Cl
3872	chrY	7811520	.	T	C	66.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.960e-
3873	chrY	7811532	.	C	T	30.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
3874	chrY	7820451	.	C	A	484.25	PASS	AC=2;AF=0.029;AN=70;DP=507;FS=0.000;Inbre
3875	chrY	7821143	.	A	G	542.94	PASS	AC=4;AF=0.061;AN=66;DP=435;FS=0.000;Inbre
3876	chrY	7822893	.	C	G	30.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-

3877	chrY	7830165	.	T	C	1073.26	PASS	AC=6;AF=0.086;AN=70;DP=453;FS=0.000;Inbre
3878	chrY	7841657	.	A	G	1157.91	PASS	AC=6;AF=0.086;AN=70;DP=474;FS=0.000;Inbre
3879	chrY	7841766	.	A	T	758.79	PASS	AC=6;AF=0.088;AN=68;DP=440;FS=0.000;Inbre
3880	chrY	7843210	.	C	T	224.38	PASS	AC=2;AF=0.029;AN=70;DP=543;FS=0.000;Inbre
3881	chrY	7844490	.	G	A	13367.89	PASS	AC=68;AF=1.00;AN=68;DP=436;FS=0.0
3882	chrY	7848043	.	G	C	18538.94	PASS	AC=70;AF=1.00;AN=70;DP=613;FS=0.0
3883	chrY	7850291	.	G	C	49.02	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-7.360e-
3884	chrY	7850298	.	A	C	447.37	PASS	AC=6;AF=0.094;AN=64;DP=180;FS=0.000;Inbre
3885	chrY	7851096	.	T	A	1292.64	PASS	AC=6;AF=0.086;AN=70;DP=422;FS=0.000;Inbre
3886	chrY	7852612	.	G	A	275.55	PASS	AC=4;AF=0.071;AN=56;DP=224;FS=0.000;Inbre
3887	chrY	7853310	.	T	C	1237.04	PASS	AC=22;AF=0.500;AN=44;DP=219;FS=0.000;Inbr
3888	chrY	7854412	.	G	A	7917.08	PASS	AC=66;AF=1.00;AN=66;DP=271;FS=0.000;Inbre
3889	chrY	7858686	.	G	A	1308.09	PASS	AC=6;AF=0.091;AN=66;DP=254;FS=0.000;Inbre
3890	chrY	7863189	.	A	G	12210.90	PASS	AC=68;AF=1.00;AN=68;DP=403;FS=0.0
3891	chrY	7867317	.	A	G	319.89	PASS	AC=2;AF=0.029;AN=68;DP=258;FS=0.000;Inbre
3892	chrY	7869808	.	C	T	10118.50	PASS	AC=52;AF=0.743;AN=70;DP=499;FS=0.0
3893	chrY	7879301	.	G	T	480.35	PASS	AC=2;AF=0.029;AN=70;DP=624;FS=0.000;Inbre
3894	chrY	7879850	.	G	A	471.29	PASS	AC=2;AF=0.029;AN=70;DP=584;FS=0.000;Inbre
3895	chrY	7885579	.	C	T	1102.43	PASS	AC=6;AF=0.333;AN=18;DP=177;FS=0.000;MLEAC
3896	chrY	7891188	.	C	T	12401	PASS	AC=68;AF=1.00;AN=68;DP=414;FS=0.000;Inbre
3897	chrY	7891316	.	A	T	859.70	PASS	AC=6;AF=0.088;AN=68;DP=478;FS=0.000;Inbre
3898	chrY	7891525	.	A	T	1310.36	PASS	AC=6;AF=0.086;AN=70;DP=435;FS=0.000;Inbre
3899	chrY	7892174	.	A	T	46.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.588;Cl
3900	chrY	7894337	.	T	C	46.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.434e+
3901	chrY	7894778	.	G	A	1002.09	PASS	AC=6;AF=0.250;AN=24;DP=142;FS=0.000;Inbre
3902	chrY	7900883	.	A	C	15870.89	PASS	AC=66;AF=1.00;AN=66;DP=517;FS=0.0
3903	chrY	7903359	.	T	A	8219.54	PASS	AC=40;AF=0.571;AN=70;DP=495;FS=0.000;Inbr
3904	chrY	7904140	.	T	C	932.09	PASS	AC=6;AF=0.086;AN=70;DP=728;FS=0.000;Inbre
3905	chrY	7906599	.	C	A	501.88	PASS	AC=2;AF=0.029;AN=68;DP=435;FS=0.000;Inbre
3906	chrY	7913741	.	G	C	269.32	PASS	AC=2;AF=0.029;AN=70;DP=552;FS=0.000;Inbre
3907	chrY	7915372	.	A	C	38.63	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
3908	chrY	7917153	.	A	G	678.09	PASS	AC=6;AF=0.086;AN=70;DP=567;FS=0.000;Inbre
3909	chrY	7917959	.	G	A	11591.02	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
3910	chrY	7918677	.	C	G	6479.53	PASS	AC=46;AF=0.657;AN=70;DP=384;FS=0.000;Inbr
3911	chrY	7922775	.	G	A	1289.69	PASS	AC=6;AF=0.094;AN=64;DP=215;FS=0.000;Inbre
3912	chrY	7923226	.	C	T	1215.64	PASS	AC=6;AF=0.086;AN=70;DP=347;FS=0.000;Inbre
3913	chrY	7923436	.	C	T	831.44	PASS	AC=6;AF=0.086;AN=70;DP=449;FS=0.000;Inbre
3914	chrY	7926414	.	G	T	335.41	PASS	AC=2;AF=0.029;AN=70;DP=568;FS=0.000;Inbre
3915	chrY	7927211	.	G	T	39.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.00;Cli
3916	chrY	7927219	.	G	T	39.81	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.03;Cli
3917	chrY	7927225	.	A	G	39.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.03;Cli
3918	chrY	7927232	.	T	C	39.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
3919	chrY	7939131	.	G	C	6358.43	PASS	AC=46;AF=0.657;AN=70;DP=358;FS=0.000;Inbr
3920	chrY	7947749	.	C	T	15842.81	PASS	AC=52;AF=0.743;AN=70;DP=694;FS=0.0
3921	chrY	7948701	.	T	G	6373.40	PASS	AC=62;AF=1.00;AN=62;BaseQRankSum=1.55;Cli
3922	chrY	7949214	.	G	C	649.89	PASS	AC=6;AF=0.086;AN=70;DP=387;FS=0.000;Inbre
3923	chrY	7952791	.	C	A	878.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.935;Cl
3924	chrY	7953764	.	C	T	1170.24	PASS	AC=6;AF=0.086;AN=70;DP=442;FS=0.000;Inbre
3925	chrY	7956941	.	C	A	1305.22	PASS	AC=8;AF=0.114;AN=70;DP=583;FS=0.000;Inbre
3926	chrY	7960019	.	A	G	12853.89	PASS	AC=68;AF=1.00;AN=68;DP=443;FS=0.0
3927	chrY	7962668	.	C	A	10763.99	PASS	AC=52;AF=0.743;AN=70;DP=507;FS=0.0
3928	chrY	7963031	.	G	T	9332.98	PASS	AC=66;AF=1.00;AN=66;DP=318;FS=0.000;Inbre
3929	chrY	7969351	.	G	A	1299.37	PASS	AC=6;AF=0.086;AN=70;DP=370;FS=0.000;Inbre
3930	chrY	7970023	.	C	A	3166.27	PASS	AC=44;AF=0.786;AN=56;DP=212;FS=0.000;Inbr
3931	chrY	7971505	.	C	T	6325.03	PASS	AC=50;AF=1.00;AN=50;DP=230;FS=0.000;Inbre
3932	chrY	7979575	.	C	T	1327.07	PASS	AC=6;AF=0.120;AN=50;DP=196;FS=0.000;Inbre
3933	chrY	7980793	.	T	G	960.22	PASS	AC=6;AF=0.086;AN=70;DP=478;FS=0.000;Inbre
3934	chrY	7981758	.	T	A	992.11	PASS	AC=6;AF=0.120;AN=50;DP=191;FS=0.000;Inbre
3935	chrY	7984930	.	G	A	1560.18	PASS	AC=6;AF=0.333;AN=18;DP=184;FS=0.000;MLEAC
3936	chrY	7987189	.	T	C	32	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.495e+
3937	chrY	7987514	.	T	G	476.59	PASS	AC=2;AF=0.029;AN=68;DP=269;FS=0.000;Inbre
3938	chrY	7989541	.	C	T	732.94	PASS	AC=2;AF=0.030;AN=66;DP=274;FS=0.000;Inbre
3939	chrY	7996584	.	A	G	4457.12	PASS	AC=36;AF=0.750;AN=48;BaseQRankSum=1.59;Cl
3940	chrY	7996768	.	A	G	4842.05	PASS	AC=34;AF=1.00;AN=34;DP=184;FS=0.000;Inbre
3941	chrY	8002854	.	G	A	45.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.948;Cl
3942	chrY	8002859	.	T	C	45.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.118;Cl
3943	chrY	8003985	.	C	T	1559.75	PASS	AC=6;AF=0.300;AN=20;DP=185;FS=0.000;Inbre
3944	chrY	8005623	.	T	C	51.57	PASS	AC=2;AF=0.083;AN=24;DP=238;FS=0.000;Inbre
3945	chrY	8005624	.	A	T	53.28	PASS	AC=2;AF=0.083;AN=24;DP=238;FS=0.000;Inbre
3946	chrY	8005933	.	G	A	1618.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=1.58;Cli
3947	chrY	8006013	.	A	C	1474.22	PASS	AC=6;AF=0.333;AN=18;DP=177;FS=0.000;MLEAC
3948	chrY	8008136	.	C	T	1081.78	PASS	AC=6;AF=0.300;AN=20;DP=127;FS=0.000;Inbre
3949	chrY	8021340	.	C	T	2764.49	PASS	AC=12;AF=0.171;AN=70;DP=609;FS=0.000;Inbr
3950	chrY	8025084	.	G	T	567.41	PASS	AC=6;AF=0.176;AN=34;DP=115;FS=0.000;Inbre
3951	chrY	8027681	.	T	A	31.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-9.220e-
3952	chrY	8027859	.	C	G	4411.27	PASS	AC=40;AF=1.00;AN=40;DP=167;FS=0.000;Inbre

3953	chrY	8034368	.	G	A	8168.98	PASS	AC=40;AF=0.571;AN=70;DP=477;FS=0.000;Inbre
3954	chrY	8039638	.	T	G	957.70	PASS	AC=6;AF=0.086;AN=70;DP=547;FS=0.000;Inbre
3955	chrY	8041217	.	G	C	6265.65	PASS	AC=52;AF=0.743;AN=70;DP=376;FS=0.000;Inbre
3956	chrY	8050994	.	C	G	10783.93	PASS	AC=68;AF=1.00;AN=68;DP=369;FS=0.000;Inbre
3957	chrY	8053502	.	G	C	946.84	PASS	AC=6;AF=0.125;AN=48;DP=152;FS=0.000;Inbre
3958	chrY	8059894	.	C	T	10032.60	PASS	AC=58;AF=0.829;AN=70;DP=404;FS=0.000;Inbre
3959	chrY	8060848	.	A	G	4664.98	PASS	AC=44;AF=0.710;AN=62;DP=294;FS=0.000;Inbre
3960	chrY	8068059	.	G	C	438.21	PASS	AC=2;AF=0.029;AN=70;DP=598;FS=0.000;Inbre
3961	chrY	8068262	.	G	A	1151.99	PASS	AC=6;AF=0.091;AN=66;DP=408;FS=0.000;Inbre
3962	chrY	8068842	.	C	G	1219.83	PASS	AC=6;AF=0.086;AN=70;DP=428;FS=0.000;Inbre
3963	chrY	8069557	.	T	G	1049.74	PASS	AC=6;AF=0.086;AN=70;DP=671;FS=0.000;Inbre
3964	chrY	8070532	.	A	T	12076.95	PASS	AC=70;AF=1.00;AN=70;DP=398;FS=0.000;Inbre
3965	chrY	8072664	.	C	T	1085.95	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=1.53;Cli
3966	chrY	8078131	.	G	A	1270.21	PASS	AC=6;AF=0.086;AN=70;DP=560;FS=0.000;Inbre
3967	chrY	8079352	.	C	A	390.22	PASS	AC=2;AF=0.032;AN=62;DP=233;FS=0.000;Inbre
3968	chrY	8080119	.	G	C	1058.22	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=0.102;Cli
3969	chrY	8080632	.	A	G	1196.23	PASS	AC=6;AF=0.086;AN=70;DP=474;FS=0.000;Inbre
3970	chrY	8086815	.	G	A	11884.02	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=1.00;Inbre
3971	chrY	8096754	.	C	T	10611.96	PASS	AC=68;AF=1.00;AN=68;DP=365;FS=0.000;Inbre
3972	chrY	8098341	.	T	C	1296.66	PASS	AC=6;AF=0.086;AN=70;DP=552;FS=0.000;Inbre
3973	chrY	8103496	.	A	C	615.52	PASS	AC=6;AF=0.086;AN=70;DP=350;FS=0.000;Inbre
3974	chrY	8110520	.	A	T	12182.96	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=1.00;Inbre
3975	chrY	8113354	.	C	T	11251.56	PASS	AC=52;AF=0.743;AN=70;DP=519;FS=0.000;Inbre
3976	chrY	8114740	.	T	C	1753.65	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.200e-05;Inbre
3977	chrY	8116284	.	G	A	788.92	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.000;Inbre
3978	chrY	8117397	.	A	G	473.49	PASS	AC=6;AF=0.088;AN=68;DP=298;FS=0.000;Inbre
3979	chrY	8119070	.	G	T	41.99	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=0.045;Inbre
3980	chrY	8123701	.	C	G	277.12	PASS	AC=2;AF=0.029;AN=70;DP=677;FS=0.000;Inbre
3981	chrY	8124176	.	T	C	1220.09	PASS	AC=2;AF=0.029;AN=70;DP=682;FS=0.000;Inbre
3982	chrY	8127435	.	A	G	22488.85	PASS	AC=52;AF=0.743;AN=70;DP=910;FS=0.000;Inbre
3983	chrY	8131538	.	T	G	3699.91	PASS	AC=38;AF=0.760;AN=50;DP=244;FS=0.000;Inbre
3984	chrY	8132296	.	T	G	6050.72	PASS	AC=50;AF=0.806;AN=62;DP=316;FS=0.000;Inbre
3985	chrY	8133554	.	A	C	1499.14	PASS	AC=6;AF=0.097;AN=62;DP=251;FS=0.000;Inbre
3986	chrY	8134704	.	A	T	7098.22	PASS	AC=58;AF=1.00;AN=58;DP=245;FS=0.000;Inbre
3987	chrY	8134707	.	A	G	47.92	PASS	AC=2;AF=0.031;AN=64;DP=220;FS=0.000;Inbre
3988	chrY	8143636	.	G	A	3256.65	PASS	AC=36;AF=0.667;AN=54;DP=259;FS=0.000;Inbre
3989	chrY	8145871	.	A	G	7373.06	PASS	AC=52;AF=0.743;AN=70;DP=382;FS=0.000;Inbre
3990	chrY	8147497	.	A	G	318.03	PASS	AC=2;AF=0.029;AN=68;DP=381;FS=0.000;Inbre
3991	chrY	8149348	.	G	A	13018.94	PASS	AC=64;AF=1.00;AN=64;DP=445;FS=0.000;Inbre
3992	chrY	8151565	.	C	T	1295.45	PASS	AC=6;AF=0.086;AN=70;DP=503;FS=0.000;Inbre
3993	chrY	8151578	.	G	A	336.81	PASS	AC=2;AF=0.029;AN=70;DP=474;FS=0.000;Inbre
3994	chrY	8155906	.	C	T	434.54	PASS	AC=6;AF=0.088;AN=68;DP=245;FS=0.000;Inbre
3995	chrY	8159650	.	T	C	314.85	PASS	AC=6;AF=0.094;AN=64;DP=224;FS=0.000;Inbre
3996	chrY	8164021	.	T	G	1432.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.42;Cli
3997	chrY	8167736	.	C	T	1340.18	PASS	AC=6;AF=0.333;AN=18;DP=159;FS=0.000;MLEAC=0.333;Inbre
3998	chrY	8173271	.	T	C	14716.79	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=1.00;Inbre
3999	chrY	8173788	.	C	G	149.92	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=2.83;Cli
4000	chrY	8173809	.	T	C	142.44	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=-1.050e-05;Inbre
4001	chrY	8173815	.	T	G	136.48	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=0.672;Cli
4002	chrY	8173822	.	C	G	145.52	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=2.18;Cli
4003	chrY	8173912	.	C	A	101.57	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=0.099;Cli
4004	chrY	8173916	.	A	T	66.12	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=1.88;Cli
4005	chrY	8174152	.	A	G	56.34	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=0.150;Inbre
4006	chrY	8174193	.	T	A	172.57	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=0.200;Inbre
4007	chrY	8174279	.	G	A	60.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-3.110e-05;Inbre
4008	chrY	8174288	.	T	A	60.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.180e-05;Inbre
4009	chrY	8175535	.	G	C	53.66	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=1.48;Cli
4010	chrY	8175605	.	G	A	82.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.06;Cli
4011	chrY	8175615	.	A	T	70.31	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.743e-05;Inbre
4012	chrY	8177946	.	C	A	584.43	my_snp_filter	AC=2;AF=0.100;AN=20;DP=177;FS=0.000;Inbre
4013	chrY	8177948	.	A	C	584.43	my_snp_filter	AC=2;AF=0.100;AN=20;DP=179;FS=0.000;Inbre
4014	chrY	8182224	.	C	A	65.98	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=0.406;Cli
4015	chrY	8182228	.	C	A	48.81	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-3.580e-05;Inbre
4016	chrY	8182229	.	A	G	329.44	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=0.731;Cli
4017	chrY	8188380	.	G	C	7375.54	PASS	AC=44;AF=0.647;AN=68;DP=444;FS=0.000;Inbre
4018	chrY	8189029	.	T	G	1690.49	PASS	AC=4;AF=0.057;AN=70;DP=535;FS=0.000;Inbre
4019	chrY	8190099	.	T	C	302.75	PASS	AC=2;AF=0.030;AN=66;DP=481;FS=0.000;Inbre
4020	chrY	8194310	.	A	C	10005.98	PASS	AC=68;AF=1.00;AN=68;DP=332;FS=0.000;Inbre
4021	chrY	8195260	.	G	A	1497.45	PASS	AC=6;AF=0.088;AN=68;DP=667;FS=0.000;Inbre
4022	chrY	8207956	.	G	A	1196.03	PASS	AC=6;AF=0.115;AN=52;DP=170;FS=0.000;Inbre
4023	chrY	8214698	.	C	A	18616.94	PASS	AC=52;AF=0.743;AN=70;DP=702;FS=0.000;Inbre
4024	chrY	8214827	.	T	C	10974.99	PASS	AC=66;AF=1.00;AN=66;DP=406;FS=0.000;Inbre
4025	chrY	8222809	.	C	G	1292.97	PASS	AC=6;AF=0.086;AN=70;DP=585;FS=0.000;Inbre
4026	chrY	8222893	.	C	T	1453.18	PASS	AC=6;AF=0.086;AN=70;DP=658;FS=0.000;Inbre
4027	chrY	8226939	.	G	A	539.25	PASS	AC=2;AF=0.029;AN=70;DP=437;FS=0.000;Inbre
4028	chrY	8227605	.	G	A	17780.81	PASS	AC=58;AF=0.829;AN=70;DP=674;FS=0.000;Inbre

4029	chrY	8227896	.	G	C	1277.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.59;Cli
4030	chrY	8233186	.	T	C	7234.08	PASS	AC=62;AF=1.00;AN=62;DP=261;FS=0.000;Inbre
4031	chrY	8239331	.	C	A	1491.09	PASS	AC=6;AF=0.088;AN=68;DP=341;FS=0.000;Inbre
4032	chrY	8252836	.	C	A	770.60	PASS	AC=6;AF=0.086;AN=70;DP=366;FS=0.000;Inbre
4033	chrY	8254132	.	C	A	1383.55	PASS	AC=6;AF=0.086;AN=70;DP=522;FS=0.000;Inbre
4034	chrY	8257661	.	G	A	15608.97	PASS	AC=70;AF=1.00;AN=70;DP=513;FS=0.0
4035	chrY	8274331	.	T	C	944.71	PASS	AC=6;AF=0.086;AN=70;DP=549;FS=0.000;Inbre
4036	chrY	8280242	.	G	A	9748.37	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum=-7.510e
4037	chrY	8280433	.	C	T	1208.07	PASS	AC=6;AF=0.086;AN=70;DP=630;FS=0.000;Inbre
4038	chrY	8281961	.	A	G	324.91	PASS	AC=6;AF=0.088;AN=68;DP=328;FS=0.000;Inbre
4039	chrY	8283411	.	T	G	4141.56	PASS	AC=46;AF=0.719;AN=64;DP=265;FS=0.000;Inbr
4040	chrY	8287857	.	A	G	449.93	PASS	AC=4;AF=0.065;AN=62;DP=280;FS=0.000;Inbre
4041	chrY	8289580	.	T	A	583.02	PASS	AC=2;AF=0.031;AN=64;DP=255;FS=0.000;Inbre
4042	chrY	8290483	.	A	T	2044.74	PASS	AC=12;AF=0.171;AN=70;DP=219;FS=0.000;Inbr
4043	chrY	8290951	.	T	A	4681.23	PASS	AC=32;AF=1.00;AN=32;DP=191;FS=0.000;Inbre
4044	chrY	8293360	.	G	A	483.02	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.630;Cl
4045	chrY	8295295	.	C	T	273.35	PASS	AC=2;AF=0.029;AN=70;DP=478;FS=0.000;Inbre
4046	chrY	8295929	.	C	G	646.60	PASS	AC=6;AF=0.086;AN=70;DP=331;FS=0.000;Inbre
4047	chrY	8296284	.	A	C	607.55	PASS	AC=6;AF=0.333;AN=18;DP=140;FS=0.000;MLEAC
4048	chrY	8296441	.	T	G	4001.87	PASS	AC=18;AF=1.00;AN=18;DP=149;FS=0.000;MLEAC
4049	chrY	8296886	.	A	G	1425.98	PASS	AC=6;AF=0.088;AN=68;DP=498;FS=0.000;Inbre
4050	chrY	8297696	.	C	T	457.33	PASS	AC=2;AF=0.029;AN=70;DP=536;FS=0.000;Inbre
4051	chrY	8302035	.	T	A	393.61	PASS	AC=2;AF=0.029;AN=70;DP=523;FS=0.000;Inbre
4052	chrY	8302284	.	T	C	66.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.560e-
4053	chrY	8302290	.	A	G	66.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.270e-
4054	chrY	8302490	.	T	A	302.11	PASS	AC=2;AF=0.029;AN=70;DP=710;FS=0.000;Inbre
4055	chrY	8303516	.	T	C	530.92	PASS	AC=6;AF=0.086;AN=70;DP=455;FS=0.000;Inbre
4056	chrY	8306942	.	A	G	911.84	PASS	AC=6;AF=0.086;AN=70;DP=464;FS=0.000;Inbre
4057	chrY	8307194	.	G	A	1125.61	PASS	AC=6;AF=0.088;AN=68;DP=383;FS=0.000;Inbre
4058	chrY	8311520	.	A	T	1184.04	PASS	AC=6;AF=0.088;AN=68;DP=497;FS=0.000;Inbre
4059	chrY	8312279	.	T	A	1045.09	PASS	AC=6;AF=0.086;AN=70;DP=567;FS=0.000;Inbre
4060	chrY	8316170	.	T	A	912.49	PASS	AC=6;AF=0.086;AN=70;DP=533;FS=0.000;Inbre
4061	chrY	8319509	.	G	A	1518.17	PASS	AC=6;AF=0.091;AN=66;DP=473;FS=0.000;Inbre
4062	chrY	8319751	.	C	T	1053.96	PASS	AC=6;AF=0.086;AN=70;DP=588;FS=0.000;Inbre
4063	chrY	8323509	.	A	C	947.19	PASS	AC=6;AF=0.333;AN=18;DP=146;FS=0.000;MLEAC
4064	chrY	8323848	.	C	T	1377.75	PASS	AC=6;AF=0.300;AN=20;DP=163;FS=0.000;Inbre
4065	chrY	8326618	.	T	C	12488.97	PASS	AC=70;AF=1.00;AN=70;BaseQRankSum=
4066	chrY	8326977	.	A	G	162.24	PASS	AC=2;AF=0.029;AN=70;DP=624;FS=0.000;Inbre
4067	chrY	8330236	.	G	A	360.26	PASS	AC=2;AF=0.029;AN=70;DP=541;FS=0.000;Inbre
4068	chrY	8332538	.	A	G	1017.06	PASS	AC=6;AF=0.088;AN=68;DP=482;FS=0.000;Inbre
4069	chrY	8334875	.	G	A	13532.41	PASS	AC=67;AF=0.985;AN=68;BaseQRankSum
4070	chrY	8355219	.	G	A	30.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.650e-
4071	chrY	8357196	.	T	C	127.08	PASS	AC=2;AF=0.029;AN=70;DP=628;FS=0.000;Inbre
4072	chrY	8357498	.	G	T	1087.86	PASS	AC=4;AF=0.057;AN=70;DP=579;FS=0.000;Inbre
4073	chrY	8378220	.	T	C	6830.66	PASS	AC=58;AF=0.829;AN=70;DP=342;FS=0.000;Inbr
4074	chrY	8379245	.	T	C	797.76	PASS	AC=6;AF=0.150;AN=40;DP=166;FS=0.000;Inbre
4075	chrY	8379348	.	A	T	64.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=1.24;Cli
4076	chrY	8379349	.	A	T	69.83	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-1.239e+
4077	chrY	8382727	.	A	T	1213.28	PASS	AC=6;AF=0.086;AN=70;DP=689;FS=0.000;Inbre
4078	chrY	8383601	.	C	G	997.62	PASS	AC=6;AF=0.086;AN=70;DP=644;FS=0.000;Inbre
4079	chrY	8391108	.	G	T	1527.03	PASS	AC=6;AF=0.086;AN=70;DP=568;FS=0.000;Inbre
4080	chrY	8392395	.	G	T	1666.38	PASS	AC=6;AF=0.086;AN=70;DP=476;FS=0.000;Inbre
4081	chrY	8392756	.	A	G	1105.20	PASS	AC=6;AF=0.086;AN=70;DP=659;FS=0.000;Inbre
4082	chrY	8394931	.	C	T	943.03	PASS	AC=6;AF=0.086;AN=70;DP=701;FS=0.000;Inbre
4083	chrY	8395251	.	C	T	1385.77	PASS	AC=6;AF=0.086;AN=70;DP=541;FS=0.000;Inbre
4084	chrY	8395838	.	C	T	1135.24	PASS	AC=6;AF=0.086;AN=70;DP=575;FS=0.000;Inbre
4085	chrY	8397349	.	G	A	1021.14	PASS	AC=6;AF=0.086;AN=70;DP=646;FS=0.000;Inbre
4086	chrY	8398614	.	T	C	858.26	PASS	AC=6;AF=0.086;AN=70;DP=643;FS=0.000;Inbre
4087	chrY	8401239	.	T	C	1078.32	PASS	AC=6;AF=0.086;AN=70;DP=629;FS=0.000;Inbre
4088	chrY	8408989	.	C	T	1386.76	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=1.40;Cli
4089	chrY	8410157	.	T	C	623.44	PASS	AC=2;AF=0.029;AN=70;DP=461;FS=0.000;Inbre
4090	chrY	8410758	.	G	A	1545.82	PASS	AC=6;AF=0.086;AN=70;DP=413;FS=0.000;Inbre
4091	chrY	8411202	.	G	A	14317.95	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
4092	chrY	8416058	.	A	C	25061.89	PASS	AC=70;AF=1.00;AN=70;DP=785;FS=0.0
4093	chrY	8420377	.	C	T	1221.54	PASS	AC=6;AF=0.086;AN=70;DP=539;FS=0.000;Inbre
4094	chrY	8422865	.	A	C	31.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
4095	chrY	8424089	.	A	G	14388.33	PASS	AC=58;AF=0.829;AN=70;DP=580;FS=0.
4096	chrY	8428370	.	G	A	14216.41	PASS	AC=50;AF=0.735;AN=68;DP=651;FS=0.
4097	chrY	8428411	.	G	A	1638.25	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.734e+
4098	chrY	8430640	.	G	T	665.46	PASS	AC=6;AF=0.086;AN=70;DP=479;FS=0.000;Inbre
4099	chrY	8436397	.	A	G	31.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-6.840e-
4100	chrY	8438277	.	A	G	2997.41	PASS	AC=12;AF=0.171;AN=70;DP=443;FS=0.000;Inbr
4101	chrY	8439542	.	A	G	10729.98	PASS	AC=67;AF=0.985;AN=68;BaseQRankSum
4102	chrY	8442334	.	T	C	19956.37	PASS	AC=52;AF=0.743;AN=70;DP=641;FS=0.
4103	chrY	8442341	.	G	A	21227.50	PASS	AC=58;AF=0.829;AN=70;DP=638;FS=0.
4104	chrY	8448515	.	C	T	1308.69	PASS	AC=6;AF=0.086;AN=70;DP=473;FS=0.000;Inbre

4105	chrY	8449068	.	G	A	297.58	PASS	AC=2;AF=0.029;AN=68;DP=378;FS=0.000;Inbre
4106	chrY	8449511	.	C	T	1109.88	PASS	AC=6;AF=0.088;AN=68;DP=629;FS=0.000;Inbre
4107	chrY	8452166	.	T	C	492.52	PASS	AC=6;AF=0.097;AN=62;DP=237;FS=0.000;Inbre
4108	chrY	8453537	.	A	C	842.36	PASS	AC=6;AF=0.086;AN=70;DP=728;FS=0.000;Inbre
4109	chrY	8454895	.	T	C	15846.96	PASS	AC=52;AF=0.743;AN=70;DP=644;FS=0.000
4110	chrY	8457950	.	G	A	10535.14	PASS	AC=50;AF=0.735;AN=68;DP=499;FS=0.000
4111	chrY	8458859	.	G	A	1146.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.670e-
4112	chrY	8459148	.	T	G	310.19	PASS	AC=2;AF=0.029;AN=70;DP=669;FS=0.000;Inbre
4113	chrY	8462601	.	T	A	1727.82	PASS	AC=6;AF=0.086;AN=70;DP=630;FS=0.000;Inbre
4114	chrY	8463332	.	T	C	611.16	PASS	AC=6;AF=0.088;AN=68;DP=464;FS=0.000;Inbre
4115	chrY	8464280	.	G	A	1170.27	PASS	AC=6;AF=0.088;AN=68;DP=511;FS=0.000;Inbre
4116	chrY	8471989	.	G	T	1419.85	PASS	AC=6;AF=0.086;AN=70;DP=558;FS=0.000;Inbre
4117	chrY	8474189	.	C	A	19289.28	PASS	AC=58;AF=0.829;AN=70;DP=695;FS=0.000
4118	chrY	8480384	.	G	A	552.62	PASS	AC=6;AF=0.086;AN=70;DP=480;FS=0.000;Inbre
4119	chrY	8482599	.	C	G	1078.61	PASS	AC=6;AF=0.086;AN=70;DP=382;FS=0.000;Inbre
4120	chrY	8482631	.	G	C	6726.59	PASS	AC=50;AF=0.735;AN=68;DP=346;FS=0.000;Inbre
4121	chrY	8483638	.	G	A	904.29	PASS	AC=6;AF=0.091;AN=66;DP=469;FS=0.000;Inbre
4122	chrY	8484112	.	G	T	18551.72	PASS	AC=52;AF=0.743;AN=70;DP=742;FS=0.000
4123	chrY	8484577	.	A	G	978.31	PASS	AC=2;AF=0.029;AN=70;DP=630;FS=0.000;Inbre
4124	chrY	8486344	.	G	A	1146.39	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.000;Inbre
4125	chrY	8488523	.	C	A	456.40	PASS	AC=2;AF=0.029;AN=70;DP=518;FS=0.000;Inbre
4126	chrY	8491160	.	C	G	792.54	PASS	AC=6;AF=0.088;AN=68;DP=412;FS=0.000;Inbre
4127	chrY	8492876	.	C	T	1032.24	PASS	AC=6;AF=0.088;AN=68;DP=515;FS=0.000;Inbre
4128	chrY	8496195	.	C	A	1396.22	PASS	AC=6;AF=0.086;AN=70;DP=642;FS=0.000;Inbre
4129	chrY	8498289	.	G	T	346.80	PASS	AC=6;AF=0.091;AN=66;DP=307;FS=0.000;Inbre
4130	chrY	8499322	.	A	G	462.52	PASS	AC=2;AF=0.029;AN=70;DP=621;FS=0.000;Inbre
4131	chrY	8502236	.	A	G	14848.91	PASS	AC=70;AF=1.00;AN=70;DP=561;FS=0.000
4132	chrY	8503447	.	G	A	1026.81	PASS	AC=6;AF=0.086;AN=70;DP=686;FS=0.000;Inbre
4133	chrY	8503823	.	C	T	1198.19	PASS	AC=6;AF=0.088;AN=68;DP=657;FS=0.000;Inbre
4134	chrY	8505317	.	G	A	1444.69	PASS	AC=6;AF=0.088;AN=68;DP=610;FS=0.000;Inbre
4135	chrY	8506721	.	C	T	1248.79	PASS	AC=6;AF=0.086;AN=70;DP=557;FS=0.000;Inbre
4136	chrY	8508188	.	T	C	12878.39	PASS	AC=40;AF=0.571;AN=70;DP=668;FS=0.000
4137	chrY	8511769	.	T	C	1030.67	PASS	AC=6;AF=0.086;AN=70;DP=601;FS=0.000;Inbre
4138	chrY	8514733	.	G	A	12231.65	PASS	AC=40;AF=0.571;AN=70;DP=635;FS=0.000
4139	chrY	8516929	.	A	G	10765.02	PASS	AC=70;AF=1.00;AN=70;BaseQRankSum=
4140	chrY	8525582	.	G	A	1104.66	PASS	AC=6;AF=0.086;AN=70;DP=642;FS=0.000;Inbre
4141	chrY	8526333	.	C	T	527.47	PASS	AC=2;AF=0.029;AN=70;DP=558;FS=0.000;Inbre
4142	chrY	8527146	.	G	A	603.04	PASS	AC=6;AF=0.088;AN=68;DP=327;FS=0.000;Inbre
4143	chrY	8533410	.	T	C	46.43	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.727;Cl
4144	chrY	8534318	.	T	A	392.37	PASS	AC=2;AF=0.029;AN=68;DP=567;FS=0.000;Inbre
4145	chrY	8534979	.	C	T	11732.18	PASS	AC=52;AF=0.813;AN=64;DP=493;FS=0.000
4146	chrY	8535125	.	G	T	158.26	PASS	AC=2;AF=0.030;AN=66;DP=253;FS=0.000;Inbre
4147	chrY	8537273	.	G	A	12634.22	PASS	AC=52;AF=0.743;AN=70;DP=578;FS=0.000
4148	chrY	8539998	.	G	A	589.27	PASS	AC=2;AF=0.029;AN=70;DP=772;FS=0.000;Inbre
4149	chrY	8542721	.	C	T	1500.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.239e+
4150	chrY	8548898	.	T	G	477.08	PASS	AC=2;AF=0.029;AN=70;DP=674;FS=0.000;Inbre
4151	chrY	8550825	.	C	T	539.25	PASS	AC=6;AF=0.091;AN=66;DP=217;FS=0.000;Inbre
4152	chrY	8553421	.	T	C	14628.41	PASS	AC=58;AF=0.829;AN=70;DP=590;FS=0.000
4153	chrY	8558505	.	C	T	9821.57	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum=1.50;Cl
4154	chrY	8559960	.	G	T	35.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
4155	chrY	8559992	.	C	T	1402.26	PASS	AC=6;AF=0.086;AN=70;DP=550;FS=0.000;Inbre
4156	chrY	8560645	.	A	G	8468.42	PASS	AC=52;AF=0.743;AN=70;DP=443;FS=0.000;Inbr
4157	chrY	8572150	.	A	G	14332.31	PASS	AC=58;AF=0.829;AN=70;DP=596;FS=0.000
4158	chrY	8578180	.	T	A	1323.27	PASS	AC=6;AF=0.086;AN=70;DP=474;FS=0.000;Inbre
4159	chrY	8579009	.	T	A	1592.02	PASS	AC=6;AF=0.086;AN=70;DP=731;FS=0.000;Inbre
4160	chrY	8583808	.	C	G	183.66	PASS	AC=2;AF=0.029;AN=70;DP=453;FS=0.000;Inbre
4161	chrY	8585701	.	A	G	5631.66	PASS	AC=48;AF=0.727;AN=66;DP=349;FS=0.000;Inbr
4162	chrY	8589031	.	T	C	15154.95	PASS	AC=58;AF=0.829;AN=70;DP=603;FS=0.000
4163	chrY	8589604	.	G	A	1077.99	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.000;Inbre
4164	chrY	8589875	.	A	G	178.33	PASS	AC=2;AF=0.029;AN=70;DP=646;FS=0.000;Inbre
4165	chrY	8590647	.	A	G	1527.26	PASS	AC=4;AF=0.057;AN=70;DP=550;FS=0.000;Inbre
4166	chrY	8592725	.	A	G	598.69	PASS	AC=6;AF=0.086;AN=70;DP=495;FS=0.000;Inbre
4167	chrY	8593845	.	G	A	1215	PASS	AC=6;AF=0.086;AN=70;DP=842;FS=0.000;Inbre
4168	chrY	8597350	.	T	G	313.42	PASS	AC=2;AF=0.029;AN=70;DP=555;FS=0.000;Inbre
4169	chrY	8600938	.	C	T	219.58	PASS	AC=2;AF=0.029;AN=70;DP=588;FS=0.000;Inbre
4170	chrY	8602394	.	T	C	56.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.231e+
4171	chrY	8602415	.	T	C	15446.67	PASS	AC=56;AF=0.824;AN=68;DP=648;FS=0.000
4172	chrY	8604667	.	G	A	1267.14	PASS	AC=6;AF=0.086;AN=70;DP=677;FS=0.000;Inbre
4173	chrY	8605895	.	C	A	1786.88	PASS	AC=6;AF=0.086;AN=70;DP=578;FS=0.000;Inbre
4174	chrY	8613265	.	T	C	31.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-6.840e-
4175	chrY	8614327	.	C	T	388.90	PASS	AC=2;AF=0.029;AN=70;DP=515;FS=0.000;Inbre
4176	chrY	8619144	.	C	T	1184.14	PASS	AC=6;AF=0.086;AN=70;DP=691;FS=0.000;Inbre
4177	chrY	8619538	.	A	G	11319	my_snp_filter	AC=66;AF=1.00;AN=66;DP=377;FS=0.000
4178	chrY	8620323	.	T	C	256.23	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
4179	chrY	8620877	.	T	C	2631.69	PASS	AC=6;AF=0.086;AN=70;DP=598;FS=0.000;Inbre
4180	chrY	8620881	.	T	C	3512.03	PASS	AC=12;AF=0.171;AN=70;DP=578;FS=0.000;Inbr

4181	chrY	8623513	.	G	A	1267.43	PASS	AC=6;AF=0.086;AN=70;DP=499;FS=0.000;Inbre
4182	chrY	8623586	.	G	T	1541.53	PASS	AC=6;AF=0.086;AN=70;DP=494;FS=0.000;Inbre
4183	chrY	8631385	.	T	C	55.45	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-7.310e-
4184	chrY	8633545	.	C	T	16186.91	PASS	AC=70;AF=1.00;AN=70;DP=511;FS=0.0
4185	chrY	8635807	.	G	A	1460.76	PASS	AC=6;AF=0.086;AN=70;DP=661;FS=0.000;Inbre
4186	chrY	8640245	.	C	G	13361.87	PASS	AC=52;AF=0.743;AN=70;DP=606;FS=0.0
4187	chrY	8645760	.	T	A	1285.90	PASS	AC=6;AF=0.115;AN=52;DP=209;FS=0.000;Inbre
4188	chrY	8652927	.	G	C	490.22	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.13;Cli
4189	chrY	8660345	.	G	A	303.30	PASS	AC=2;AF=0.030;AN=66;DP=205;FS=0.000;Inbre
4190	chrY	8660432	.	G	A	4137.17	PASS	AC=50;AF=0.806;AN=62;DP=224;FS=0.000;Inb
4191	chrY	8661715	.	T	G	30.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
4192	chrY	8661717	.	G	A	30.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.922;Cl
4193	chrY	8661851	.	G	A	479.26	PASS	AC=2;AF=0.033;AN=60;DP=214;FS=0.000;Inbre
4194	chrY	8661991	.	C	G	5671.02	PASS	AC=38;AF=0.559;AN=68;DP=398;FS=0.000;Inbr
4195	chrY	8667179	.	G	A	9394.99	PASS	AC=64;AF=1.00;AN=64;DP=318;FS=0.000;Inbre
4196	chrY	8668533	.	C	T	11381.53	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum
4197	chrY	8670380	.	A	C	1342.76	PASS	AC=22;AF=0.423;AN=52;DP=255;FS=0.000;Inbr
4198	chrY	8673832	.	C	T	12040.91	PASS	AC=52;AF=0.743;AN=70;DP=552;FS=0.0
4199	chrY	8674808	.	C	T	2670.17	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.09;Cl
4200	chrY	8676330	.	A	G	15968.92	PASS	AC=68;AF=1.00;AN=68;DP=597;FS=0.0
4201	chrY	8677479	.	G	T	1174.80	PASS	AC=6;AF=0.091;AN=66;DP=359;FS=0.000;Inbre
4202	chrY	8677493	.	C	T	1114.55	PASS	AC=6;AF=0.091;AN=66;DP=360;FS=0.000;Inbre
4203	chrY	8678225	.	G	C	679.14	PASS	AC=6;AF=0.086;AN=70;DP=369;FS=0.000;Inbre
4204	chrY	8679843	.	T	G	6789.54	PASS	AC=56;AF=0.824;AN=68;BaseQRankSum=1.58;Cl
4205	chrY	8679954	.	T	C	927.29	PASS	AC=6;AF=0.086;AN=70;DP=315;FS=0.000;Inbre
4206	chrY	8680661	.	C	T	7568.21	PASS	AC=58;AF=0.829;AN=70;DP=339;FS=0.000;Inbr
4207	chrY	8682970	.	T	A	79.72	PASS	AC=2;AF=0.029;AN=68;DP=267;FS=0.000;Inbre
4208	chrY	8685038	.	G	A	7904.77	PASS	AC=52;AF=0.743;AN=70;DP=425;FS=0.000;Inbr
4209	chrY	8685083	.	G	A	11355.03	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum
4210	chrY	8688351	.	G	A	995.56	PASS	AC=6;AF=0.091;AN=66;DP=449;FS=0.000;Inbre
4211	chrY	8690479	.	A	G	497.22	PASS	AC=6;AF=0.111;AN=54;DP=152;FS=0.000;Inbre
4212	chrY	8690860	.	A	T	4140.17	PASS	AC=44;AF=0.647;AN=68;DP=294;FS=0.000;Inbr
4213	chrY	8694916	.	A	G	7849.04	PASS	AC=64;AF=1.00;AN=64;DP=281;FS=0.000;Inbre
4214	chrY	8696594	.	A	G	9244.02	PASS	AC=70;AF=1.00;AN=70;DP=374;FS=0.000;Inbre
4215	chrY	8701691	.	G	C	649.54	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.000;Inbre
4216	chrY	8705980	.	T	C	4235.19	PASS	AC=34;AF=1.00;AN=34;DP=166;FS=0.000;Inbre
4217	chrY	8722476	.	T	A	4853.50	PASS	AC=53;AF=0.981;AN=54;BaseQRankSum=0.736;C
4218	chrY	8726111	.	G	A	901.71	PASS	AC=6;AF=0.088;AN=68;DP=379;FS=0.000;Inbre
4219	chrY	8730475	.	A	T	1345.50	PASS	AC=6;AF=0.094;AN=64;DP=271;FS=0.000;Inbre
4220	chrY	8738853	.	T	G	13400.92	PASS	AC=70;AF=1.00;AN=70;DP=451;FS=0.0
4221	chrY	8745965	.	C	T	239.23	PASS	AC=2;AF=0.029;AN=70;DP=457;FS=0.000;Inbr
4222	chrY	8746611	.	C	T	16143.73	PASS	AC=46;AF=0.657;AN=70;DP=726;FS=0.0
4223	chrY	8746792	.	G	A	4044.35	PASS	AC=38;AF=0.679;AN=56;DP=231;FS=0.000;Inbr
4224	chrY	8760488	.	A	C	1204.85	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.000;Inbre
4225	chrY	8762969	.	C	A	533.17	PASS	AC=2;AF=0.029;AN=70;DP=537;FS=0.000;Inbre
4226	chrY	8764464	.	T	G	1120.62	PASS	AC=6;AF=0.088;AN=68;DP=296;FS=0.000;Inbre
4227	chrY	8768573	.	T	G	45.89	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-2.014e+
4228	chrY	8768579	.	T	C	51.88	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-1.371e+
4229	chrY	8769425	.	C	T	1449.88	PASS	AC=6;AF=0.088;AN=68;DP=589;FS=0.000;Inbre
4230	chrY	8771750	.	G	A	997.36	PASS	AC=6;AF=0.086;AN=70;DP=473;FS=0.000;Inbre
4231	chrY	8773674	.	C	T	5745.73	PASS	AC=52;AF=0.743;AN=70;DP=323;FS=0.000;Inbr
4232	chrY	8774422	.	T	C	30.08	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=1.23;Cli
4233	chrY	8778211	.	T	G	257.68	PASS	AC=6;AF=0.100;AN=60;DP=279;FS=0.000;Inbre
4234	chrY	8789892	.	A	G	25821.48	PASS	AC=44;AF=0.647;AN=68;DP=1077;FS=0.0
4235	chrY	8790693	.	C	T	1440.81	PASS	AC=6;AF=0.086;AN=70;DP=901;FS=0.000;Inbre
4236	chrY	8792176	.	A	C	5517.48	PASS	AC=44;AF=0.710;AN=62;DP=302;FS=0.000;Inbr
4237	chrY	8793919	.	G	T	19676.12	PASS	AC=58;AF=0.829;AN=70;BaseQRankSum
4238	chrY	8796086	.	A	G	960.74	PASS	AC=6;AF=0.088;AN=68;DP=689;FS=0.000;Inbre
4239	chrY	8798524	.	G	C	299.23	PASS	AC=2;AF=0.029;AN=70;DP=753;FS=0.000;Inbre
4240	chrY	8799540	.	G	A	8388.25	PASS	AC=46;AF=0.657;AN=70;DP=450;FS=0.000;Inbr
4241	chrY	8804908	.	T	C	1742.78	PASS	AC=6;AF=0.086;AN=70;DP=672;FS=0.000;Inbre
4242	chrY	8805525	.	A	G	21060.88	PASS	AC=70;AF=1.00;AN=70;DP=731;FS=0.0
4243	chrY	8807995	.	C	A	16716.57	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum
4244	chrY	8808332	.	A	G	30.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
4245	chrY	8808339	.	G	C	33.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.380e+
4246	chrY	8809390	.	T	C	1172.90	PASS	AC=6;AF=0.091;AN=66;DP=267;FS=0.000;Inbre
4247	chrY	8810919	.	A	C	730.32	PASS	AC=6;AF=0.086;AN=70;DP=404;FS=0.000;Inbre
4248	chrY	8811466	.	C	T	4707.86	PASS	AC=18;AF=1.00;AN=18;DP=187;FS=0.000;MLEAC
4249	chrY	8812759	.	G	A	1418.64	PASS	AC=6;AF=0.273;AN=22;DP=180;FS=0.000;Inbre
4250	chrY	8816007	.	T	G	1218.11	PASS	AC=6;AF=0.088;AN=68;DP=254;FS=0.000;Inbre
4251	chrY	8816136	.	C	A	1661.96	PASS	AC=6;AF=0.250;AN=24;DP=197;FS=0.000;Inbre
4252	chrY	8818442	.	A	G	6742.21	PASS	AC=42;AF=0.636;AN=66;DP=437;FS=0.000;Inbr
4253	chrY	8819574	.	T	G	594.95	PASS	AC=6;AF=0.111;AN=54;DP=162;FS=0.000;Inbre
4254	chrY	8826595	.	T	C	832.96	PASS	AC=18;AF=1.00;AN=18;DP=72;FS=0.000;MLEAC
4255	chrY	8831327	.	C	A	39.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.300e+
4256	chrY	8831341	.	T	A	108.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.398e+

4257	chrY	8836635	.	G	C	1011.48	PASS	AC=4;AF=0.057;AN=70;DP=725;FS=0.000;Inbre
4258	chrY	8840859	.	G	A	1103.84	PASS	AC=6;AF=0.086;AN=70;DP=664;FS=0.000;Inbre
4259	chrY	8842966	.	G	A	73.89	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=0.248;Cl
4260	chrY	8842969	.	C	A	68.41	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=-7.510e-
4261	chrY	8845191	.	G	A	33.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
4262	chrY	8845213	.	A	G	33.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.38;Cli
4263	chrY	8845380	.	T	C	18000.87	PASS	AC=70;AF=1.00;AN=70;DP=636;FS=0.0
4264	chrY	8845654	.	C	A	506.24	PASS	AC=2;AF=0.029;AN=70;DP=443;FS=0.000;Inbre
4265	chrY	8848038	.	G	A	1219.77	PASS	AC=6;AF=0.088;AN=68;DP=420;FS=0.000;Inbre
4266	chrY	8855352	.	G	A	4515.51	PASS	AC=48;AF=0.800;AN=60;DP=281;FS=0.000;Inb
4267	chrY	8855867	.	A	G	7176.81	PASS	AC=40;AF=0.571;AN=70;DP=443;FS=0.000;Inbr
4268	chrY	8856026	.	G	A	9364.52	PASS	AC=52;AF=0.743;AN=70;DP=462;FS=0.000;Inbr
4269	chrY	8857621	.	T	A	8017.77	PASS	AC=40;AF=0.571;AN=70;DP=506;FS=0.000;Inbr
4270	chrY	8857950	.	A	G	1058.23	PASS	AC=18;AF=0.321;AN=56;DP=279;FS=0.000;Inbr
4271	chrY	8861569	.	T	C	362.25	PASS	AC=2;AF=0.029;AN=70;DP=612;FS=0.000;Inbre
4272	chrY	8866856	.	T	A	203.77	PASS	AC=2;AF=0.029;AN=68;DP=428;FS=0.000;Inbre
4273	chrY	8869318	.	A	G	934.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.49;Cli
4274	chrY	8870417	.	G	C	1682.64	PASS	AC=6;AF=0.086;AN=70;DP=774;FS=0.000;Inbre
4275	chrY	8870437	.	A	C	1770.60	PASS	AC=6;AF=0.086;AN=70;DP=763;FS=0.000;Inbre
4276	chrY	8870440	.	G	T	1819.62	PASS	AC=6;AF=0.086;AN=70;DP=750;FS=0.000;Inbre
4277	chrY	8875060	.	C	T	702.03	PASS	AC=6;AF=0.088;AN=68;DP=351;FS=0.000;Inbre
4278	chrY	8876758	.	G	A	1333.54	PASS	AC=6;AF=0.086;AN=70;DP=412;FS=0.000;Inbre
4279	chrY	8880943	.	G	A	287.96	PASS	AC=2;AF=0.030;AN=66;DP=259;FS=0.000;Inbre
4280	chrY	8886095	.	A	G	13071.16	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum
4281	chrY	8889226	.	C	A	767.70	PASS	AC=6;AF=0.086;AN=70;DP=482;FS=0.000;Inbre
4282	chrY	8895766	.	G	A	1078.92	PASS	AC=6;AF=0.086;AN=70;DP=599;FS=0.000;Inbre
4283	chrY	8901991	.	C	T	109.62	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=-7.310e-
4284	chrY	8905099	.	C	T	874.34	PASS	AC=6;AF=0.088;AN=68;DP=257;FS=0.000;Inbre
4285	chrY	8909837	.	G	C	648.35	PASS	AC=6;AF=0.088;AN=68;DP=480;FS=0.000;Inbre
4286	chrY	8910408	.	T	C	792.19	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.000;Inbre
4287	chrY	8914314	.	C	T	668.06	PASS	AC=6;AF=0.088;AN=68;DP=346;FS=0.000;Inbre
4288	chrY	8969429	.	T	C	149.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.360e-
4289	chrY	8970859	.	C	A	30.46	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
4290	chrY	8970861	.	C	A	30.83	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=1.39;Cli
4291	chrY	8972605	.	T	C	52.63	PASS	AC=2;AF=0.100;AN=20;DP=163;FS=0.000;Inbre
4292	chrY	8972629	.	T	A	52.12	PASS	AC=2;AF=0.100;AN=20;DP=151;FS=0.000;Inbre
4293	chrY	8980266	.	G	A	1596.81	PASS	AC=6;AF=0.086;AN=70;DP=663;FS=0.000;Inbre
4294	chrY	8987653	.	T	C	7642.06	PASS	AC=56;AF=0.824;AN=68;DP=345;FS=0.000;Inbr
4295	chrY	9004556	.	C	T	2771.72	PASS	AC=12;AF=0.171;AN=70;DP=757;FS=0.000;Inbr
4296	chrY	9006521	.	C	T	1000.84	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.000;Inbre
4297	chrY	9006786	.	C	G	374.75	PASS	AC=6;AF=0.120;AN=50;DP=192;FS=0.000;Inbre
4298	chrY	9013185	.	G	A	150.91	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=-8.980e-
4299	chrY	9013206	.	C	G	149.60	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=0.762;Cl
4300	chrY	9013215	.	G	T	158.10	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=1.59;Cli
4301	chrY	9015043	.	C	T	1009.55	PASS	AC=6;AF=0.088;AN=68;DP=550;FS=0.000;Inbre
4302	chrY	9016522	.	C	T	963.91	PASS	AC=6;AF=0.086;AN=70;DP=488;FS=0.000;Inbre
4303	chrY	9017255	.	G	A	319.68	PASS	AC=4;AF=0.059;AN=68;DP=595;FS=0.000;Inbre
4304	chrY	9018408	.	A	C	9043.33	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum=-1.735e
4305	chrY	9018928	.	G	A	1254.48	PASS	AC=6;AF=0.086;AN=70;DP=533;FS=0.000;Inbre
4306	chrY	9023747	.	A	G	34.32	PASS	AC=2;AF=0.029;AN=68;DP=206;FS=0.000;Inbre
4307	chrY	9026967	.	G	C	4819.80	PASS	AC=46;AF=0.719;AN=64;DP=282;FS=0.000;Inbr
4308	chrY	9030938	.	C	T	1379.42	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.000;Inbre
4309	chrY	9030988	.	T	C	330.43	my_snp_filter	AC=6;AF=0.086;AN=70;DP=315;FS=0.0
4310	chrY	9031181	.	G	C	4308.22	PASS	AC=40;AF=1.00;AN=40;DP=162;FS=0.000;Inbre
4311	chrY	9040209	.	T	A	399.62	PASS	AC=6;AF=0.333;AN=18;DP=48;FS=0.000;MLEAC=
4312	chrY	9044835	.	C	T	1287.61	PASS	AC=6;AF=0.086;AN=70;DP=606;FS=0.000;Inbre
4313	chrY	9046046	.	A	T	466.44	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
4314	chrY	9046301	.	A	G	47.59	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
4315	chrY	9049597	.	G	C	31.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
4316	chrY	9049598	.	C	T	31.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.980e-
4317	chrY	9049615	.	G	T	31.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
4318	chrY	9049620	.	G	T	31.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
4319	chrY	9049623	.	T	G	35.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.470e-
4320	chrY	9051841	.	A	C	1386.92	PASS	AC=6;AF=0.086;AN=70;DP=559;FS=0.000;Inbre
4321	chrY	9052103	.	G	A	52.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4322	chrY	9063599	.	G	A	53.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.833e+
4323	chrY	9063606	.	A	T	53.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.953e+
4324	chrY	9063607	.	T	G	53.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.953e+
4325	chrY	9063903	.	A	G	79.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-4.060e-
4326	chrY	9063913	.	A	G	78.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.537e+
4327	chrY	9063946	.	C	G	1085.30	PASS	AC=6;AF=0.086;AN=70;DP=537;FS=0.000;Inbre
4328	chrY	9064229	.	G	A	1437.27	PASS	AC=6;AF=0.086;AN=70;DP=609;FS=0.000;Inbre
4329	chrY	9064682	.	C	A	13934.02	PASS	AC=54;AF=0.818;AN=66;BaseQRankSum
4330	chrY	9065289	.	A	T	12666.91	PASS	AC=44;AF=0.647;AN=68;BaseQRankSum
4331	chrY	9067880	.	G	C	45.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.709e+
4332	chrY	9067884	.	G	T	46.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.449e+

4333	chrY	9067886	.	C	T	45.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.441;Cl
4334	chrY	9067897	.	A	T	43.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.550e-
4335	chrY	9067903	.	A	C	43.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.488e+
4336	chrY	9067904	.	A	C	40.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.355;Cl
4337	chrY	9067906	.	A	G	40.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.369e+
4338	chrY	9067917	.	T	C	43.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.066e+
4339	chrY	9067921	.	A	C	43.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.606e+
4340	chrY	9067931	.	G	C	40.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.270e-
4341	chrY	9067944	.	A	G	40.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.739e+
4342	chrY	9067949	.	G	A	41.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.29;Cli
4343	chrY	9067950	.	T	C	37.60	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4344	chrY	9067951	.	C	T	38.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.839;Cl
4345	chrY	9067955	.	T	C	37.61	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4346	chrY	9067959	.	T	G	38.21	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
4347	chrY	9067963	.	A	C	31.73	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
4348	chrY	9067969	.	A	G	35.21	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
4349	chrY	9068071	.	A	T	1260.29	PASS	AC=6;AF=0.088;AN=68;DP=279;FS=0.000;Inbre
4350	chrY	9068133	.	G	A	41.57	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
4351	chrY	9068135	.	C	T	47.68	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
4352	chrY	9068144	.	T	G	49.34	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
4353	chrY	9068164	.	C	T	77.26	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-2.900e-
4354	chrY	9068169	.	T	C	79.13	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.935;Cl
4355	chrY	9068192	.	T	A	86.48	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.267e+
4356	chrY	9068196	.	G	A	80.49	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.761;Cl
4357	chrY	9074523	.	C	T	9748.11	PASS	AC=44;AF=0.647;AN=68;DP=533;FS=0.000;Inbr
4358	chrY	9075738	.	G	A	4238.77	PASS	AC=42;AF=0.636;AN=66;DP=324;FS=0.000;Inbr
4359	chrY	9076128	.	C	A	1298.03	PASS	AC=6;AF=0.086;AN=70;DP=633;FS=0.000;Inbre
4360	chrY	9076205	.	C	T	19035.12	PASS	AC=52;AF=0.743;AN=70;DP=781;FS=0.
4361	chrY	9077533	.	C	T	1152.36	PASS	AC=6;AF=0.086;AN=70;DP=531;FS=0.000;Inbre
4362	chrY	9078835	.	A	G	8257.94	PASS	AC=56;AF=0.824;AN=68;DP=423;FS=0.000;Inbr
4363	chrY	9080852	.	A	G	446.85	PASS	AC=6;AF=0.086;AN=70;DP=335;FS=0.000;Inbre
4364	chrY	9082750	.	G	A	1082.11	PASS	AC=6;AF=0.086;AN=70;DP=456;FS=0.000;Inbre
4365	chrY	9082814	.	G	A	37.21	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4366	chrY	9082819	.	A	C	35.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4367	chrY	9082831	.	C	T	31.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4368	chrY	9082835	.	T	C	31.02	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4369	chrY	9082840	.	A	G	31.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4370	chrY	9082841	.	G	T	31.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4371	chrY	9082861	.	G	T	37.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4372	chrY	9082868	.	C	T	40.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.945;Cl
4373	chrY	9082870	.	T	C	43.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.132e+
4374	chrY	9082881	.	G	T	35.17	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4375	chrY	9082886	.	T	A	31.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4376	chrY	9082898	.	A	C	34.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4377	chrY	9083036	.	G	A	10489.90	PASS	AC=56;AF=0.800;AN=70;BaseQRankSum=
4378	chrY	9083205	.	G	C	808.46	PASS	AC=6;AF=0.086;AN=70;DP=528;FS=0.000;Inbre
4379	chrY	9084870	.	T	G	22954.95	PASS	AC=70;AF=1.00;AN=70;DP=751;FS=0.0
4380	chrY	9085444	.	C	T	2263.93	PASS	AC=6;AF=0.086;AN=70;DP=766;FS=0.000;Inbre
4381	chrY	9091751	.	C	T	973.29	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-4.250e-
4382	chrY	9093383	.	C	G	3645.06	PASS	AC=22;AF=1.00;AN=22;DP=153;FS=0.000;Inbre
4383	chrY	9097669	.	G	A	988.94	PASS	AC=6;AF=0.088;AN=68;DP=630;FS=0.000;Inbre
4384	chrY	9098922	.	T	C	25559.90	PASS	AC=70;AF=1.00;AN=70;DP=796;FS=0.0
4385	chrY	9099362	.	A	G	344.82	PASS	AC=2;AF=0.029;AN=68;DP=504;FS=0.000;Inbre
4386	chrY	9099427	.	C	T	1032.16	PASS	AC=6;AF=0.086;AN=70;DP=506;FS=0.000;Inbre
4387	chrY	9105097	.	G	A	881.07	PASS	AC=6;AF=0.086;AN=70;DP=443;FS=0.000;Inbre
4388	chrY	9108252	.	T	G	19020.29	PASS	AC=58;AF=0.829;AN=70;DP=705;FS=0.
4389	chrY	9108931	.	C	T	540.17	PASS	AC=2;AF=0.029;AN=70;DP=800;FS=0.000;Inbre
4390	chrY	9108951	.	C	A	18367.12	PASS	AC=40;AF=0.571;AN=70;DP=878;FS=0.
4391	chrY	9118085	.	C	G	15893.13	PASS	AC=52;AF=0.743;AN=70;DP=664;FS=0.
4392	chrY	9118497	.	G	A	1044.46	PASS	AC=6;AF=0.086;AN=70;DP=613;FS=0.000;Inbre
4393	chrY	9128713	.	C	T	1144.81	PASS	AC=6;AF=0.086;AN=70;DP=828;FS=0.000;Inbre
4394	chrY	9131166	.	C	A	12420.10	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum
4395	chrY	9131177	.	C	T	11517.52	PASS	AC=61;AF=0.953;AN=64;BaseQRankSum
4396	chrY	9139609	.	G	A	2005.78	PASS	AC=6;AF=0.086;AN=70;DP=697;FS=0.000;Inbre
4397	chrY	9142309	.	C	T	1055.04	PASS	AC=6;AF=0.086;AN=70;DP=734;FS=0.000;Inbre
4398	chrY	9145517	.	A	G	64.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4399	chrY	9145524	.	C	T	145.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.38;Cli
4400	chrY	9145525	.	A	G	151.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.65;Cli
4401	chrY	9147889	.	C	T	2688.97	PASS	AC=12;AF=0.171;AN=70;DP=755;FS=0.000;Inbr
4402	chrY	9151036	.	T	C	397.86	PASS	AC=4;AF=0.063;AN=64;DP=297;FS=0.000;Inbre
4403	chrY	9152146	.	A	G	1156.40	PASS	AC=2;AF=0.029;AN=70;DP=769;FS=0.000;Inbre
4404	chrY	9153355	.	T	G	1610.71	PASS	AC=6;AF=0.120;AN=50;DP=199;FS=0.000;Inbre
4405	chrY	9153654	.	C	T	344.44	PASS	AC=2;AF=0.037;AN=54;DP=224;FS=0.000;Inbre
4406	chrY	9154397	.	T	C	1176.71	PASS	AC=6;AF=0.111;AN=54;DP=247;FS=0.000;Inbre
4407	chrY	9155526	.	T	C	10037.54	PASS	AC=52;AF=0.743;AN=70;DP=471;FS=0.
4408	chrY	9156793	.	G	T	1239.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.281e+

4409	chrY	9163105	.	C	G	5721.16	PASS	AC=48;AF=0.727;AN=66;DP=350;FS=0.000;Inbr
4410	chrY	9164082	.	A	T	961.38	PASS	AC=6;AF=0.088;AN=68;DP=470;FS=0.000;Inbre
4411	chrY	9170545	.	A	C	11637.93	PASS	AC=68;AF=1.00;AN=68;DP=410;FS=0.0
4412	chrY	9170598	.	G	A	1259.72	PASS	AC=6;AF=0.086;AN=70;DP=386;FS=0.000;Inbre
4413	chrY	9171794	.	A	G	601.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.488e+
4414	chrY	9171836	.	G	A	365.50	PASS	AC=2;AF=0.029;AN=70;DP=516;FS=0.000;Inbre
4415	chrY	9171850	.	C	T	591.84	PASS	AC=4;AF=0.057;AN=70;DP=533;FS=0.000;Inbre
4416	chrY	9171896	.	G	A	1229.99	PASS	AC=6;AF=0.086;AN=70;DP=595;FS=0.000;Inbre
4417	chrY	9171956	.	A	T	19794.96	PASS	AC=70;AF=1.00;AN=70;DP=664;FS=0.0
4418	chrY	9172015	.	G	T	427.52	PASS	AC=2;AF=0.029;AN=70;DP=524;FS=0.000;Inbre
4419	chrY	9172586	.	G	A	2249.01	PASS	AC=4;AF=0.059;AN=68;DP=672;FS=0.000;Inbre
4420	chrY	9172681	.	T	G	2334.69	PASS	AC=12;AF=0.182;AN=66;DP=351;FS=0.000;Inbr
4421	chrY	9173145	.	G	T	1380.54	my_snp_filter	AC=31;AF=0.620;AN=50;BaseQRankSum
4422	chrY	9173672	.	C	A	50.51	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQRankSum=
4423	chrY	9175032	.	C	T	79.60	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4424	chrY	9175247	.	G	A	80.25	my_snp_filter	AC=2;AF=0.125;AN=16;DP=41;FS=0.00
4425	chrY	9175550	.	G	A	75.10	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
4426	chrY	9177493	.	C	A	268.93	my_snp_filter	AC=6;AF=0.250;AN=24;DP=125;FS=0.0
4427	chrY	9177907	.	G	A	522.68	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
4428	chrY	9177980	.	G	A	439.39	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
4429	chrY	9179397	.	A	C	328.89	my_snp_filter	AC=5;AF=0.625;AN=8;BaseQRankSum=0
4430	chrY	9179421	.	C	G	300.09	my_snp_filter	AC=5;AF=0.625;AN=8;BaseQRankSum=0
4431	chrY	9179552	.	G	A	632.55	my_snp_filter	AC=10;AF=0.625;AN=16;BaseQRankSum
4432	chrY	9179618	.	A	G	38.15	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
4433	chrY	9179756	.	C	T	1153.48	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
4434	chrY	9179835	.	G	C	1466.12	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQRankSum=
4435	chrY	9181104	.	T	C	32.81	PASS	AC=2;AF=0.250;AN=8;DP=12;FS=0.000;MLEAC=3
4436	chrY	9183915	.	G	T	158.11	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
4437	chrY	9184559	.	G	A	238.65	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQRankSum=
4438	chrY	9185900	.	A	G	659.21	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQRankSum=
4439	chrY	9186113	.	T	C	711.02	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
4440	chrY	9186234	.	G	C	224.27	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQRankSum=
4441	chrY	9186471	.	G	A	849.15	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQRankSum=
4442	chrY	9188626	.	A	G	88.44	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
4443	chrY	9188703	.	A	C	167.17	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQRankSum=
4444	chrY	9188749	.	A	T	61.91	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQRankSum=
4445	chrY	9188833	.	A	G	1103.83	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQRankSum=
4446	chrY	9191148	.	A	G	57.32	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQRankSum=0
4447	chrY	9191188	.	A	G	111.48	my_snp_filter	AC=3;AF=0.300;AN=10;BaseQRankSum=
4448	chrY	9191779	.	G	A	372.28	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQRankSum=
4449	chrY	9192278	.	G	T	40.92	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQRankSum=
4450	chrY	9192852	.	T	C	81.02	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQRankSum=
4451	chrY	9193253	.	T	G	66.55	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQRankSum=
4452	chrY	9196113	.	C	T	85.73	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4453	chrY	9196142	.	A	C	492.02	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
4454	chrY	9198243	.	T	A	75.25	my_snp_filter	AC=4;AF=0.133;AN=30;DP=501;FS=0.0
4455	chrY	9198340	.	C	A	32.40	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
4456	chrY	9198785	.	G	C	501.68	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
4457	chrY	9198798	.	C	T	221.70	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQRankSum=
4458	chrY	9198800	.	G	T	87.46	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
4459	chrY	9200409	.	G	A	299.22	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQRankSum=
4460	chrY	9200466	.	G	A	120.06	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
4461	chrY	9205084	.	C	T	460.30	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQRankSum=
4462	chrY	9206174	.	A	G	234.08	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQRankSum=
4463	chrY	9206526	.	G	C	43.26	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQRankSum=
4464	chrY	9211129	.	G	A	177.73	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4465	chrY	9211340	.	A	T	1815.12	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQRankSum=
4466	chrY	9211350	.	C	T	431.05	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQRankSum=
4467	chrY	9211360	.	C	G	867.13	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQRankSum=
4468	chrY	9211432	.	G	C	59.87	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
4469	chrY	9215395	.	C	T	144.30	my_snp_filter	AC=2;AF=0.071;AN=28;DP=55;FS=0.00
4470	chrY	9215644	.	C	T	46.14	my_snp_filter	AC=4;AF=1.00;AN=4;DP=7;FS=0.000;M
4471	chrY	9215757	.	C	T	40.41	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
4472	chrY	9220009	.	C	G	250.51	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=0.736;Cl
4473	chrY	9220064	.	C	A	93.54	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
4474	chrY	9220133	.	C	G	62.57	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
4475	chrY	9220142	.	G	A	147.48	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQRankSum=
4476	chrY	9220156	.	G	A	168.53	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
4477	chrY	9220161	.	G	T	1595.02	my_snp_filter	AC=22;AF=0.688;AN=32;BaseQRankSum=
4478	chrY	9220307	.	G	C	590.29	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
4479	chrY	9220400	.	G	C	799.36	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.247e+
4480	chrY	9220546	.	G	A	1291.05	my_snp_filter	AC=6;AF=0.088;AN=68;DP=346;FS=0.0
4481	chrY	9226845	.	G	C	64.25	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4482	chrY	9227801	.	A	T	186.26	my_snp_filter	AC=6;AF=0.750;AN=8;DP=15;FS=0.000
4483	chrY	9231287	.	C	A	367.22	PASS	AC=9;AF=0.643;AN=14;BaseQRankSum=0.736;Cl
4484	chrY	9231469	.	G	A	269.29	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQRankSum=

4485	chrY	9231735	.	A	T	829.20	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQRankSum=
4486	chrY	9231774	.	G	A	467.45	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQRankSum=
4487	chrY	9231864	.	G	C	619.16	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQRankSum=
4488	chrY	9231873	.	C	T	296.89	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQRankSum=
4489	chrY	9231953	.	G	C	35.23	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQRankSum=
4490	chrY	9234317	.	G	A	151.60	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
4491	chrY	9234434	.	G	A	511.51	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
4492	chrY	9234629	.	C	A	101.27	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
4493	chrY	9234631	.	T	C	574.75	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQRankSum=
4494	chrY	9234770	.	G	A	6763.08	my_snp_filter	AC=34;AF=1.00;AN=34;BaseQRankSum=
4495	chrY	9237917	.	G	A	84.08	my_snp_filter	AC=4;AF=0.333;AN=12;DP=28;FS=0.00
4496	chrY	9239350	.	T	C	1218.56	my_snp_filter	AC=29;AF=0.967;AN=30;BaseQRankSum=
4497	chrY	9239420	.	C	T	7097.94	my_snp_filter	AC=56;AF=1.00;AN=56;DP=289;FS=0.0
4498	chrY	9240361	.	G	C	40.41	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4499	chrY	9240670	.	G	A	722.61	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQRankSum=
4500	chrY	9240701	.	G	C	571.63	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
4501	chrY	9296073	.	C	G	98.23	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4502	chrY	9296499	.	C	A	54.31	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
4503	chrY	9296508	.	A	G	30.91	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
4504	chrY	9297072	.	C	A	63.99	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
4505	chrY	9297866	.	A	C	46.74	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQRankSum=
4506	chrY	9297996	.	A	G	38.73	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQRankSum=
4507	chrY	9299968	.	C	T	48.53	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4508	chrY	9300163	.	C	A	331.48	my_snp_filter	AC=5;AF=0.179;AN=28;BaseQRankSum=
4509	chrY	9300172	.	C	A	1312.70	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQRankSum=
4510	chrY	9300182	.	G	C	351.90	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
4511	chrY	9300192	.	A	T	730.34	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
4512	chrY	9300198	.	A	T	244.59	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=
4513	chrY	9304534	.	G	C	1408.09	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQRankSum=
4514	chrY	9304544	.	C	T	144.04	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
4515	chrY	9304636	.	C	T	157.51	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQRankSum=
4516	chrY	9306051	.	A	G	200.82	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
4517	chrY	9306296	.	T	G	123.80	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
4518	chrY	9306576	.	C	T	259.80	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-6.190e-
4519	chrY	9306772	.	G	A	123.55	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQRankSum=
4520	chrY	9306953	.	A	G	139.63	my_snp_filter	AC=4;AF=0.222;AN=18;DP=28;FS=0.00
4521	chrY	9307401	.	T	A	1307.95	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQRankSum=
4522	chrY	9307436	.	A	T	885.94	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQRankSum=
4523	chrY	9307492	.	A	C	93.54	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQRankSum=
4524	chrY	9307512	.	G	A	1477.40	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
4525	chrY	9307519	.	C	G	35.71	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
4526	chrY	9307626	.	C	T	442.18	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
4527	chrY	9307635	.	G	A	674.62	my_snp_filter	AC=7;AF=0.175;AN=40;BaseQRankSum=
4528	chrY	9309611	.	G	A	37.27	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4529	chrY	9309883	.	C	T	73.84	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
4530	chrY	9311383	.	A	T	227.37	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
4531	chrY	9311713	.	A	G	55.23	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
4532	chrY	9312661	.	C	A	288.99	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQRankSum=
4533	chrY	9313713	.	C	A	322.13	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
4534	chrY	9314182	.	G	A	50.22	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
4535	chrY	9314525	.	A	G	1213.16	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQRankSum=
4536	chrY	9316380	.	T	G	151.91	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQRankSum=
4537	chrY	9316383	.	C	G	84.94	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQRankSum=
4538	chrY	9316819	.	A	G	196.11	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQRankSum=
4539	chrY	9316833	.	A	G	169.20	my_snp_filter	AC=7;AF=0.583;AN=12;BaseQRankSum=
4540	chrY	9318328	.	A	T	528.08	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
4541	chrY	9319672	.	G	A	368.79	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQRankSum=
4542	chrY	9320510	.	A	G	1284.25	my_snp_filter	AC=13;AF=0.929;AN=14;BaseQRankSum=
4543	chrY	9320581	.	A	T	473.11	my_snp_filter	AC=10;AF=1.00;AN=10;DP=11;FS=0.00
4544	chrY	9320620	.	A	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=5;FS=0.000;M
4545	chrY	9321804	.	G	C	182.12	my_snp_filter	AC=8;AF=0.267;AN=30;DP=275;FS=0.0
4546	chrY	9321887	.	A	G	95.76	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
4547	chrY	9323103	.	C	T	32.94	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4548	chrY	9325716	.	A	G	187.75	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
4549	chrY	9327621	.	G	A	119.98	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4550	chrY	9328133	.	G	A	150.41	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
4551	chrY	9328907	.	T	C	276.04	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQRankSum=
4552	chrY	9329010	.	C	A	3578.62	my_snp_filter	AC=19;AF=0.559;AN=34;BaseQRankSum=
4553	chrY	9329221	.	A	C	97.78	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
4554	chrY	9329329	.	G	A	2785.85	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQRankSum=
4555	chrY	9329338	.	C	G	435.83	my_snp_filter	AC=5;AF=0.139;AN=36;BaseQRankSum=
4556	chrY	9329366	.	G	A	949.43	my_snp_filter	AC=11;AF=0.204;AN=54;BaseQRankSum=
4557	chrY	9329416	.	A	G	584.59	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQRankSum=
4558	chrY	9329566	.	G	A	4192.86	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
4559	chrY	9329572	.	T	C	5716.67	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum=
4560	chrY	9330881	.	C	T	931.47	my_snp_filter	AC=13;AF=0.722;AN=18;BaseQRankSum=

4561	chrY	9333895	.	C	A	243.70	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQRankSum=
4562	chrY	9334568	.	C	T	145.59	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQRankSum=
4563	chrY	9334691	.	T	C	174.02	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
4564	chrY	9334703	.	T	G	365.34	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQRankSum=
4565	chrY	9334731	.	C	G	162.75	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQRankSum=
4566	chrY	9334965	.	G	A	56.91	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
4567	chrY	9336402	.	C	A	82.56	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4568	chrY	9336572	.	C	T	101.87	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4569	chrY	9336636	.	G	A	2453.93	my_snp_filter	AC=18;AF=1.00;AN=18;DP=92;FS=0.00
4570	chrY	9336652	.	A	C	1165.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
4571	chrY	9336653	.	C	T	1259.31	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
4572	chrY	9336710	.	G	A	366.72	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQRankSum=
4573	chrY	9339830	.	C	G	43.68	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQRankSum=
4574	chrY	9340207	.	C	T	1632	my_snp_filter	AC=15;AF=0.395;AN=38;BaseQRankSum=
4575	chrY	9340380	.	G	T	477.92	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQRankSum=
4576	chrY	9340583	.	T	A	108.68	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQRankSum=
4577	chrY	9340763	.	C	A	254.39	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=-7.360e-
4578	chrY	9341086	.	G	C	65.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4579	chrY	9341121	.	G	A	1361.27	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
4580	chrY	9341165	.	A	G	278.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4581	chrY	9341280	.	G	C	44.64	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum=
4582	chrY	9341350	.	A	G	632.84	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQRankSum=
4583	chrY	9341419	.	G	C	41.09	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
4584	chrY	9341808	.	T	A	56.50	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4585	chrY	9342037	.	G	T	57.41	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
4586	chrY	9342178	.	G	C	1033.06	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
4587	chrY	9342180	.	T	A	122.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4588	chrY	9347709	.	T	G	349.39	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
4589	chrY	9347881	.	G	T	401.39	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQRankSum=
4590	chrY	9348011	.	T	A	112.74	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
4591	chrY	9348028	.	G	T	1248.76	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
4592	chrY	9348032	.	G	A	1105.21	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
4593	chrY	9348085	.	A	G	356.67	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.358;C
4594	chrY	9348169	.	G	T	74.16	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
4595	chrY	9348522	.	C	T	1282.74	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQRankSum=
4596	chrY	9348661	.	G	C	152.46	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
4597	chrY	9348990	.	C	T	2223.33	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQRankSum=
4598	chrY	9348992	.	C	T	2223.33	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQRankSum=
4599	chrY	9349081	.	C	T	76.70	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQRankSum=
4600	chrY	9349119	.	G	C	143.24	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQRankSum=
4601	chrY	9349188	.	T	C	244.61	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQRankSum=
4602	chrY	9350446	.	A	C	61.49	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
4603	chrY	9353045	.	T	C	306.44	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
4604	chrY	9353147	.	T	A	191.41	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
4605	chrY	9353320	.	A	G	108.63	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
4606	chrY	9353451	.	G	T	957.64	my_snp_filter	AC=7;AF=0.269;AN=26;BaseQRankSum=
4607	chrY	9354054	.	A	C	19684.80	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
4608	chrY	9354286	.	C	T	81.85	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
4609	chrY	9354500	.	C	T	99.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4610	chrY	9356849	.	T	G	148.11	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
4611	chrY	9360757	.	C	A	135.54	my_snp_filter	AC=4;AF=0.667;AN=6;DP=12;FS=0.000
4612	chrY	9360939	.	G	A	65.01	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4613	chrY	9361194	.	A	C	3758.42	PASS	AC=28;AF=0.636;AN=44;BaseQRankSum=-1.026e-
4614	chrY	9361539	.	C	T	1180.25	my_snp_filter	AC=18;AF=1.00;AN=18;DP=52;FS=0.00
4615	chrY	9364805	.	G	T	287.81	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
4616	chrY	9364806	.	G	T	288.13	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQRankSum=
4617	chrY	9364870	.	A	C	113.79	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
4618	chrY	9365024	.	C	T	201.41	my_snp_filter	AC=4;AF=0.087;AN=46;BaseQRankSum=
4619	chrY	9365160	.	C	T	1204.79	my_snp_filter	AC=16;AF=0.276;AN=58;BaseQRankSum=
4620	chrY	9365448	.	C	T	217.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4621	chrY	9366584	.	G	T	1269.68	my_snp_filter	AC=16;AF=0.250;AN=64;BaseQRankSum=
4622	chrY	9368022	.	T	G	1027.70	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
4623	chrY	9368210	.	C	G	1881.38	my_snp_filter	AC=11;AF=0.423;AN=26;BaseQRankSum=
4624	chrY	9368326	.	T	A	13375.90	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
4625	chrY	9368411	.	C	A	1105.45	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.197;C
4626	chrY	9370414	.	G	A	323.51	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQRankSum=
4627	chrY	9371386	.	A	G	1288.19	my_snp_filter	AC=19;AF=0.365;AN=52;BaseQRankSum=
4628	chrY	9372135	.	A	C	132.76	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
4629	chrY	9372498	.	A	C	632.70	my_snp_filter	AC=16;AF=1.00;AN=16;BaseQRankSum=
4630	chrY	9372790	.	G	C	230.20	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQRankSum=
4631	chrY	9372997	.	G	A	418.51	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
4632	chrY	9373020	.	C	T	193.69	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
4633	chrY	9373061	.	A	G	315.60	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
4634	chrY	9373315	.	G	C	422.37	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
4635	chrY	9373438	.	A	G	551.24	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
4636	chrY	9373455	.	T	C	5012.70	my_snp_filter	AC=26;AF=0.382;AN=68;BaseQRankSum=

4637	chrY	9373462	.	A	T	2757.29	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
4638	chrY	9374685	.	G	C	1958.89	my_snp_filter	AC=18;AF=1.00;AN=18;DP=95;FS=0.00
4639	chrY	9379892	.	C	T	265.87	PASS	AC=2;AF=0.029;AN=70;DP=294;FS=0.000;Inbre
4640	chrY	9383633	.	T	C	599.57	my_snp_filter	AC=6;AF=0.094;AN=64;DP=192;FS=0.0
4641	chrY	9383960	.	T	C	668.31	PASS	AC=6;AF=0.086;AN=70;DP=697;FS=0.000;Inbre
4642	chrY	9384220	.	A	G	2058.69	PASS	AC=2;AF=0.029;AN=70;DP=597;FS=0.000;Inbre
4643	chrY	9384222	.	C	G	2058.71	PASS	AC=2;AF=0.029;AN=70;DP=595;FS=0.000;Inbre
4644	chrY	9384231	.	T	C	1982.80	PASS	AC=2;AF=0.029;AN=70;DP=548;FS=0.000;Inbre
4645	chrY	9384243	.	C	G	890.77	PASS	AC=2;AF=0.029;AN=68;DP=521;FS=0.000;Inbre
4646	chrY	9384255	.	A	C	891.58	PASS	AC=2;AF=0.029;AN=70;DP=500;FS=0.000;Inbre
4647	chrY	9384709	.	C	T	126.19	PASS	AC=2;AF=0.029;AN=70;DP=345;FS=0.000;Inbre
4648	chrY	9384825	.	C	T	10046.80	PASS	AC=54;AF=0.818;AN=66;DP=418;FS=0.
4649	chrY	9385175	.	C	A	120.58	PASS	AC=2;AF=0.030;AN=66;DP=270;FS=0.000;Inbre
4650	chrY	9387281	.	C	T	1045.89	PASS	AC=6;AF=0.086;AN=70;DP=732;FS=0.000;Inbre
4651	chrY	9392582	.	T	G	6678.32	PASS	AC=46;AF=0.657;AN=70;DP=438;FS=0.000;Inbr
4652	chrY	9392948	.	T	C	19165.88	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
4653	chrY	9395118	.	G	A	436.44	PASS	AC=2;AF=0.029;AN=68;DP=486;FS=0.000;Inbre
4654	chrY	9397750	.	C	T	545.22	PASS	AC=12;AF=0.261;AN=46;DP=185;FS=0.000;Inbr
4655	chrY	9398519	.	A	C	1059.92	PASS	AC=6;AF=0.086;AN=70;DP=705;FS=0.000;Inbre
4656	chrY	9398534	.	T	C	714.87	PASS	AC=6;AF=0.086;AN=70;DP=658;FS=0.000;Inbre
4657	chrY	9399483	.	C	T	9549.14	PASS	AC=56;AF=0.824;AN=68;DP=385;FS=0.000;Inbr
4658	chrY	9405160	.	A	G	378.71	PASS	AC=2;AF=0.029;AN=70;DP=343;FS=0.000;Inbre
4659	chrY	9410828	.	T	C	3185.18	PASS	AC=28;AF=1.00;AN=28;DP=177;FS=0.000;Inbre
4660	chrY	9414575	.	T	C	376.36	PASS	AC=6;AF=0.300;AN=20;DP=108;FS=0.000;Inbre
4661	chrY	9419771	.	C	A	30.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
4662	chrY	9422514	.	T	A	35.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.380e+
4663	chrY	9422515	.	T	A	35.12	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.380e+
4664	chrY	9423206	.	A	G	37.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.231e+
4665	chrY	9423211	.	T	C	37.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
4666	chrY	9423440	.	G	C	462.48	PASS	AC=6;AF=0.086;AN=70;DP=276;FS=0.000;Inbre
4667	chrY	9428867	.	G	T	57.82	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4668	chrY	9429170	.	A	G	271.02	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4669	chrY	9429344	.	G	A	40.97	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
4670	chrY	9430089	.	C	T	1506.95	PASS	AC=6;AF=0.300;AN=20;DP=185;FS=0.000;Inbre
4671	chrY	9430090	.	G	A	1516.95	PASS	AC=6;AF=0.300;AN=20;DP=182;FS=0.000;Inbre
4672	chrY	9432663	.	C	A	32.36	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4673	chrY	9432723	.	A	G	60.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.516e+
4674	chrY	9432727	.	G	A	60.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.66;Cli
4675	chrY	9434337	.	G	A	110.38	PASS	AC=2;AF=0.111;AN=18;DP=113;FS=0.000;MLEAC
4676	chrY	9439231	.	T	A	33.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.200e-
4677	chrY	9441630	.	G	C	268.06	PASS	AC=2;AF=0.029;AN=68;DP=337;FS=0.000;Inbre
4678	chrY	9444789	.	A	G	307.20	PASS	AC=4;AF=0.061;AN=66;DP=328;FS=0.000;Inbre
4679	chrY	9445154	.	C	T	1425.78	PASS	AC=6;AF=0.086;AN=70;DP=802;FS=0.000;Inbre
4680	chrY	9445166	.	T	C	17016.63	PASS	AC=40;AF=0.571;AN=70;DP=846;FS=0.
4681	chrY	9453918	.	T	C	487.06	PASS	AC=6;AF=0.214;AN=28;DP=161;FS=0.000;Inbre
4682	chrY	9455412	.	C	A	202.68	PASS	AC=2;AF=0.029;AN=68;DP=286;FS=0.000;Inbre
4683	chrY	9461504	.	C	T	366	PASS	AC=2;AF=0.029;AN=68;DP=384;FS=0.000;Inbre
4684	chrY	9463207	.	G	C	636.41	PASS	AC=6;AF=0.086;AN=70;DP=662;FS=0.000;Inbre
4685	chrY	9464078	.	T	C	18107.98	PASS	AC=70;AF=1.00;AN=70;DP=582;FS=0.0
4686	chrY	9468170	.	T	G	311.01	PASS	AC=3;AF=0.068;AN=44;DP=311;FS=0.000;Inbre
4687	chrY	9472921	.	C	G	1029.19	PASS	AC=6;AF=0.333;AN=18;DP=166;FS=0.000;MLEAC
4688	chrY	9476738	.	T	C	339.90	PASS	AC=2;AF=0.045;AN=44;DP=154;FS=0.000;Inbre
4689	chrY	9478192	.	A	C	431.29	PASS	AC=6;AF=0.097;AN=62;DP=164;FS=0.000;Inbre
4690	chrY	9478486	.	T	G	631.70	my_snp_filter	AC=6;AF=0.100;AN=60;DP=307;FS=0.0
4691	chrY	9483388	.	G	T	93.42	my_snp_filter	AC=2;AF=0.031;AN=64;DP=272;FS=0.0
4692	chrY	9484649	.	G	C	7349.19	PASS	AC=44;AF=0.710;AN=62;DP=367;FS=0.000;Inbr
4693	chrY	9492917	.	C	A	1208.88	PASS	AC=6;AF=0.086;AN=70;DP=489;FS=0.000;Inbre
4694	chrY	9495836	.	T	C	511.09	PASS	AC=6;AF=0.086;AN=70;DP=608;FS=0.000;Inbre
4695	chrY	9496068	.	G	A	1394.49	PASS	AC=6;AF=0.086;AN=70;DP=542;FS=0.000;Inbre
4696	chrY	9504074	.	C	T	625.31	PASS	AC=14;AF=0.438;AN=32;DP=163;FS=0.000;Inbr
4697	chrY	9509568	.	C	T	67.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.93;Cli
4698	chrY	9509573	.	T	A	38.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4699	chrY	9512657	.	G	T	989.17	PASS	AC=6;AF=0.086;AN=70;DP=655;FS=0.000;Inbre
4700	chrY	9514704	.	G	C	1384.86	PASS	AC=6;AF=0.086;AN=70;DP=656;FS=0.000;Inbre
4701	chrY	9515104	.	C	T	2686.59	my_snp_filter	AC=12;AF=0.300;AN=40;DP=161;FS=0.
4702	chrY	9516116	.	T	C	36.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
4703	chrY	9516120	.	G	A	36.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.026e+
4704	chrY	9519795	.	G	A	547.47	PASS	AC=6;AF=0.214;AN=28;DP=119;FS=0.000;Inbre
4705	chrY	9520012	.	T	G	3876.60	PASS	AC=36;AF=0.667;AN=54;DP=296;FS=0.000;Inbr
4706	chrY	9521120	.	G	T	9891.47	PASS	AC=46;AF=0.657;AN=70;DP=530;FS=0.000;Inbr
4707	chrY	9537177	.	G	T	6394.30	my_snp_filter	AC=42;AF=0.636;AN=66;DP=363;FS=0.
4708	chrY	9537877	.	A	G	350.48	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.580e-
4709	chrY	9538342	.	A	G	28697.28	my_snp_filter	AC=52;AF=0.743;AN=70;Base
4710	chrY	9610422	.	T	C	671.89	my_snp_filter	AC=6;AF=0.088;AN=68;DP=204;FS=0.0
4711	chrY	9627884	.	C	T	51.30	my_snp_filter	AC=2;AF=0.034;AN=58;DP=140;FS=0.0
4712	chrY	9628186	.	G	C	213.06	my_snp_filter	AC=4;AF=0.061;AN=66;DP=333;FS=0.0

4713	chrY	9641025	.	C	T	6648.58	PASS	AC=38;AF=0.576;AN=66;DP=396;FS=0.000;Inbre
4714	chrY	9641766	.	G	A	700.71	PASS	AC=2;AF=0.030;AN=66;DP=622;FS=0.000;Inbre
4715	chrY	9645475	.	T	G	270.83	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.39;Cli
4716	chrY	9645478	.	T	G	135.87	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.964;Cl
4717	chrY	9645479	.	T	G	96.84	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.751;Cl
4718	chrY	9645820	.	G	A	208.59	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.969e+
4719	chrY	9645821	.	A	T	208.22	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-3.307e+
4720	chrY	9645824	.	A	T	211.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-2.691e+
4721	chrY	9646653	.	G	A	1582.32	PASS	AC=6;AF=0.091;AN=66;DP=530;FS=0.000;Inbre
4722	chrY	9646980	.	T	C	14442.88	PASS	AC=62;AF=1.00;AN=62;DP=566;FS=0.0
4723	chrY	9647267	.	G	A	105.99	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.176e+
4724	chrY	9647280	.	T	A	289.17	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-3.550e-
4725	chrY	9647282	.	T	G	247.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.340e-
4726	chrY	9647285	.	T	G	64.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.500e-
4727	chrY	9647970	.	G	C	63.82	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.00;Cli
4728	chrY	9648414	.	A	G	39.80	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=0.00
4729	chrY	9650514	.	A	G	411.53	PASS	AC=8;AF=0.400;AN=20;DP=102;FS=0.000;Inbre
4730	chrY	9654393	.	G	A	243.81	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=0.731;Cl
4731	chrY	9654405	.	G	A	245.23	PASS	AC=3;AF=0.214;AN=14;BaseQRankSum=1.38;Cli
4732	chrY	9654413	.	G	A	115.18	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=0.720;Cl
4733	chrY	9676905	.	C	A	458.42	my_snp_filter	AC=6;AF=0.333;AN=18;DP=94;FS=0.000
4734	chrY	9697181	.	T	C	466.13	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=1.04;Cli
4735	chrY	9730114	.	C	T	316.17	PASS	AC=6;AF=0.250;AN=24;DP=39;FS=0.000;Inbre
4736	chrY	9730810	.	G	A	486.73	PASS	AC=6;AF=0.150;AN=40;DP=128;FS=0.000;Inbre
4737	chrY	9730999	.	A	G	51.08	PASS	AC=2;AF=0.071;AN=28;DP=101;FS=0.000;Inbre
4738	chrY	9732725	.	G	A	789.86	PASS	AC=6;AF=0.130;AN=46;DP=158;FS=0.000;Inbre
4739	chrY	9733430	.	T	C	49	my_snp_filter	AC=2;AF=0.029;AN=70;DP=231;FS=0.0
4740	chrY	9739792	.	C	T	10501.99	my_snp_filter	AC=46;AF=0.657;AN=70;DP=5
4741	chrY	9740775	.	C	T	19701.32	my_snp_filter	AC=40;AF=0.571;AN=70;Base
4742	chrY	9745951	.	A	G	262.90	my_snp_filter	AC=4;AF=0.143;AN=28;DP=96;FS=0.00
4743	chrY	9745972	.	G	A	275.04	my_snp_filter	AC=4;AF=0.143;AN=28;DP=86;FS=0.00
4744	chrY	9754357	.	A	G	1967.65	my_snp_filter	AC=27;AF=0.964;AN=28;BaseQRankSum
4745	chrY	9754793	.	G	T	68.21	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
4746	chrY	9758675	.	T	G	964.14	PASS	AC=6;AF=0.086;AN=70;DP=463;FS=0.000;Inbre
4747	chrY	9758934	.	A	G	12876.32	PASS	AC=50;AF=0.735;AN=68;DP=566;FS=0.
4748	chrY	9771941	.	T	A,*	1747.14	PASS	AC=20,2;AF=0.769,0.077;AN=26;BaseQRankSum
4749	chrY	9771942	.	T	A	88.06	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=0.736;Cl
4750	chrY	9777859	.	G	A	1164.71	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.000;Inbre
4751	chrY	9779442	.	T	C	43.57	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
4752	chrY	9779453	.	G	A	37.14	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
4753	chrY	9779486	.	A	T	157.85	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=-1.590e-
4754	chrY	9779488	.	C	T	158.74	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=1.18;Cli
4755	chrY	9779961	.	C	T	112.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4756	chrY	9780396	.	G	A	47.99	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
4757	chrY	9780404	.	C	T	45.56	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
4758	chrY	9781153	.	T	C	191.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.495;Cl
4759	chrY	9781931	.	A	G	55.64	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4760	chrY	9782201	.	A	T	2133.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
4761	chrY	9782921	.	A	G	458.67	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4762	chrY	9782972	.	A	C	69.48	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
4763	chrY	9783000	.	G	A	162.04	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4764	chrY	9783214	.	C	T	31.95	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4765	chrY	9783219	.	A	C	44.07	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4766	chrY	9783237	.	G	A	82.63	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.50;Cli
4767	chrY	9783254	.	G	T	258.93	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQRankSum=
4768	chrY	9783260	.	A	T	88.15	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.365;Cl
4769	chrY	9783278	.	C	T	83.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-5.560e-
4770	chrY	9783279	.	T	G	83.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.590e-
4771	chrY	9783283	.	T	G	135.95	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQRankSum=
4772	chrY	9783285	.	T	A	135.95	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQRankSum=
4773	chrY	9783319	.	G	C	349.70	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-1.588e+
4774	chrY	9783372	.	A	G	53.31	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4775	chrY	9783379	.	G	T	64.08	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4776	chrY	9783389	.	C	G	341.65	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4777	chrY	9783401	.	T	C	288.17	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
4778	chrY	9783477	.	G	C	112.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4779	chrY	9783485	.	C	T	108.42	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4780	chrY	9783489	.	C	A	328.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4781	chrY	9783498	.	A	T	99.33	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
4782	chrY	9783504	.	T	A	314.80	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
4783	chrY	9787464	.	G	C	1045.24	PASS	AC=6;AF=0.086;AN=70;DP=369;FS=0.000;Inbre
4784	chrY	9788914	.	G	T	12414.97	PASS	AC=70;AF=1.00;AN=70;DP=423;FS=0.0
4785	chrY	9792633	.	T	C	66.33	PASS	AC=2;AF=0.029;AN=70;DP=265;FS=0.000;Inbre
4786	chrY	9801474	.	A	G	60.45	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.56;Cli
4787	chrY	9801482	.	G	C	60.81	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.156;Cl
4788	chrY	9801483	.	G	A	42.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.120e-

4789	chrY	9801488	.	T	G	191.43	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=2.34;Cli
4790	chrY	9801496	.	G	A	61.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.10;Cli
4791	chrY	9801497	.	T	C	45.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-3.910e-
4792	chrY	9801507	.	A	G	48.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.78;Cli
4793	chrY	9801533	.	G	A	243.10	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=2.23;Cli
4794	chrY	9801675	.	A	G	159.41	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-8.990e-
4795	chrY	9801678	.	C	T	73.08	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.853;Cl
4796	chrY	9801680	.	C	G	68.86	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.740e+
4797	chrY	9801694	.	T	C	69.44	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.13;Cli
4798	chrY	9801699	.	G	A	67.11	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.240e
4799	chrY	9802644	.	A	G	1087.95	PASS	AC=6;AF=0.300;AN=20;DP=165;FS=0.000;Inbre
4800	chrY	9805135	.	G	T	41.08	PASS	AC=2;AF=0.091;AN=22;DP=167;FS=0.000;Inbre
4801	chrY	9806976	.	C	T	346.27	PASS	AC=6;AF=0.273;AN=22;DP=59;FS=0.000;Inbre
4802	chrY	9808936	.	A	G	2008.50	PASS	AC=6;AF=0.086;AN=70;DP=675;FS=0.000;Inbre
4803	chrY	9810794	.	C	T	8382.03	PASS	AC=62;AF=1.00;AN=62;DP=305;FS=0.000;Inbre
4804	chrY	9810873	.	A	G	87.32	PASS	AC=2;AF=0.036;AN=56;DP=219;FS=0.000;Inbre
4805	chrY	9816143	.	A	G	30.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4806	chrY	9816208	.	G	T	36.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4807	chrY	9816212	.	T	C	37.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4808	chrY	9816213	.	T	C	36.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4809	chrY	9818338	.	T	C	1069.35	PASS	AC=6;AF=0.086;AN=70;DP=418;FS=0.000;Inbre
4810	chrY	9828418	.	C	T	1082.99	PASS	AC=6;AF=0.086;AN=70;DP=422;FS=0.000;Inbre
4811	chrY	9832636	.	A	G	1501.64	PASS	AC=8;AF=0.400;AN=20;DP=120;FS=0.000;Inbre
4812	chrY	9832637	.	C	A	1523.63	PASS	AC=8;AF=0.400;AN=20;DP=121;FS=0.000;Inbre
4813	chrY	9832648	.	T	C	1632.54	PASS	AC=8;AF=0.400;AN=20;DP=121;FS=0.000;Inbre
4814	chrY	9840447	.	T	C	587.91	PASS	AC=6;AF=0.086;AN=70;DP=826;FS=0.000;Inbre
4815	chrY	9841700	.	C	G	16696.88	PASS	AC=70;AF=1.00;AN=70;DP=548;FS=0.0
4816	chrY	9844119	.	G	T	215.76	PASS	AC=2;AF=0.029;AN=70;DP=543;FS=0.000;Inbre
4817	chrY	9844137	.	T	C	1234.50	PASS	AC=6;AF=0.086;AN=70;DP=524;FS=0.000;Inbre
4818	chrY	9845876	.	T	C	867.41	PASS	AC=6;AF=0.086;AN=70;DP=678;FS=0.000;Inbre
4819	chrY	9846894	.	C	T	1287.91	PASS	AC=6;AF=0.086;AN=70;DP=642;FS=0.000;Inbre
4820	chrY	9850207	.	C	G	88.60	PASS	AC=2;AF=0.029;AN=70;DP=448;FS=0.000;Inbre
4821	chrY	9850494	.	T	G	20331.34	PASS	AC=58;AF=0.829;AN=70;DP=558;FS=0.
4822	chrY	9850498	.	G	T	20495.27	PASS	AC=58;AF=0.829;AN=70;DP=561;FS=0.
4823	chrY	9850623	.	G	T	2447.45	PASS	AC=6;AF=0.086;AN=70;DP=791;FS=0.000;Inbre
4824	chrY	9850624	.	G	A	2447.45	PASS	AC=6;AF=0.086;AN=70;DP=791;FS=0.000;Inbre
4825	chrY	9850801	.	C	A	2011.53	PASS	AC=6;AF=0.086;AN=70;DP=489;FS=0.000;Inbre
4826	chrY	9850809	.	A	G	2010.32	PASS	AC=6;AF=0.086;AN=70;DP=511;FS=0.000;Inbre
4827	chrY	9851457	.	G	T	1245.72	PASS	AC=6;AF=0.088;AN=68;DP=605;FS=0.000;Inbre
4828	chrY	9852978	.	G	A,*	2331.31	PASS	AC=6,4;AF=0.500,0.333;AN=12;BaseQRankSum=
4829	chrY	9852981	.	G	A,*	2353.21	PASS	AC=6,4;AF=0.600,0.400;AN=10;BaseQRankSum=
4830	chrY	9854010	.	G	A	751.65	PASS	AC=6;AF=0.086;AN=70;DP=580;FS=0.000;Inbre
4831	chrY	9854445	.	T	C	14296.90	PASS	AC=50;AF=0.735;AN=68;DP=586;FS=0.
4832	chrY	9855869	.	C	T	1214.68	PASS	AC=6;AF=0.088;AN=68;DP=296;FS=0.000;Inbre
4833	chrY	9856283	.	G	A	1243.02	PASS	AC=6;AF=0.086;AN=70;DP=718;FS=0.000;Inbre
4834	chrY	9863192	.	T	C	940.58	PASS	AC=4;AF=0.057;AN=70;DP=583;FS=0.000;Inbre
4835	chrY	9866740	.	A	G	8742.51	PASS	AC=56;AF=0.824;AN=68;DP=410;FS=0.000;Inbr
4836	chrY	9868798	.	A	C	5785.51	PASS	AC=55;AF=0.809;AN=68;BaseQRankSum=0.727;C
4837	chrY	9869534	.	A	T	10220.85	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum
4838	chrY	9874072	.	C	T	449.15	PASS	AC=6;AF=0.088;AN=68;DP=360;FS=0.000;Inbre
4839	chrY	9875601	.	C	G	991.01	PASS	AC=6;AF=0.086;AN=70;DP=761;FS=0.000;Inbre
4840	chrY	9877478	.	C	A	350.88	PASS	AC=2;AF=0.029;AN=70;DP=371;FS=0.000;Inbre
4841	chrY	9879053	.	G	T	282.13	PASS	AC=2;AF=0.029;AN=70;DP=789;FS=0.000;Inbre
4842	chrY	9882063	.	G	A	170.04	PASS	AC=2;AF=0.029;AN=70;DP=563;FS=0.000;Inbre
4843	chrY	9885733	.	G	A	8636.85	PASS	AC=67;AF=0.985;AN=68;BaseQRankSum=0.727;C
4844	chrY	9885898	.	G	A	923.94	PASS	AC=6;AF=0.086;AN=70;DP=477;FS=0.000;Inbre
4845	chrY	9889199	.	A	G	16296.94	PASS	AC=68;AF=1.00;AN=68;DP=622;FS=0.0
4846	chrY	9890279	.	G	A	1310.03	PASS	AC=6;AF=0.094;AN=64;DP=263;FS=0.000;Inbre
4847	chrY	9890330	.	A	G	610.24	PASS	AC=2;AF=0.029;AN=70;DP=309;FS=0.000;Inbre
4848	chrY	9893879	.	G	A	772.87	PASS	AC=6;AF=0.088;AN=68;DP=431;FS=0.000;Inbre
4849	chrY	9897463	.	C	A	17415.59	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum
4850	chrY	9899034	.	G	T	1258.46	PASS	AC=4;AF=0.057;AN=70;DP=502;FS=0.000;Inbre
4851	chrY	9901153	.	A	G	1031.27	PASS	AC=6;AF=0.086;AN=70;DP=456;FS=0.000;Inbre
4852	chrY	9902395	.	G	A	497.24	PASS	AC=2;AF=0.029;AN=70;DP=605;FS=0.000;Inbre
4853	chrY	9902733	.	C	T	1402.51	PASS	AC=6;AF=0.088;AN=68;DP=680;FS=0.000;Inbre
4854	chrY	9905889	.	T	A	11693.13	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum
4855	chrY	9906499	.	C	T	66.28	PASS	AC=2;AF=0.032;AN=62;DP=344;FS=0.000;Inbre
4856	chrY	9906752	.	A	G	651.32	PASS	AC=6;AF=0.088;AN=68;DP=295;FS=0.000;Inbre
4857	chrY	9908890	.	A	G	155.50	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-2.594e+
4858	chrY	9908904	.	G	T	198.35	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=2.83;Cli
4859	chrY	9908907	.	C	G	198.60	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=0.442;Cl
4860	chrY	9908909	.	G	A	198.94	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=2.88;Cli
4861	chrY	9908910	.	T	C	198.94	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=-1.757e+
4862	chrY	9908915	.	T	G	204.54	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=1.59;Cli
4863	chrY	9908919	.	T	G	201.41	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=1.08;Cli
4864	chrY	9908927	.	G	T	125.18	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=0.624;Cl

4865	chrY	9908937	.	G	A	67.23	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=2.90;Cli
4866	chrY	9908942	.	G	C	69.83	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=2.52;Cli
4867	chrY	9909081	.	C	T	64.51	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-2.840e-
4868	chrY	9909085	.	T	C	41.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.387;Cl
4869	chrY	9909092	.	A	G	88.17	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4870	chrY	9909093	.	T	C	111.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4871	chrY	9909098	.	C	G	341.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.886;Cl
4872	chrY	9909100	.	G	T	40.62	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
4873	chrY	9909108	.	A	C	111.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4874	chrY	9909109	.	C	A	176.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.736;Cl
4875	chrY	9909110	.	T	A	556.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.648;Cl
4876	chrY	9909111	.	C	G	255.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4877	chrY	9909113	.	C	G	44.21	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
4878	chrY	9909117	.	T	C	631.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.360e-
4879	chrY	9909120	.	T	C	157.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4880	chrY	9909123	.	A	C	204.04	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4881	chrY	9909135	.	G	T	74.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4882	chrY	9909137	.	C	T	997.19	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=0.912;Cl
4883	chrY	9909138	.	A	G	64.67	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-3.330e-
4884	chrY	9909140	.	T	A	134.93	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.395e+
4885	chrY	9909141	.	T	C	590.48	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.364;Cl
4886	chrY	9909145	.	G	T	34.02	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
4887	chrY	9909146	.	T	C	1025.42	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=-4.830e-
4888	chrY	9909147	.	G	A	1578.03	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=-8.080e-
4889	chrY	9909148	.	C	T	51.14	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.606;Cl
4890	chrY	9909151	.	T	G	935.88	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-2.255e+
4891	chrY	9909153	.	A	T	771.37	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=-1.318e+
4892	chrY	9909154	.	T	G,A	4927.13	PASS	AC=14,4;AF=0.500,0.143;AN=28;BaseQRankSum
4893	chrY	9909159	.	A	G	173.20	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-1.078e+
4894	chrY	9909160	.	T	C	136.74	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.125e+
4895	chrY	9909161	.	G	C	113.62	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-9.770e-
4896	chrY	9909162	.	G	A	103.29	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.925;Cl
4897	chrY	9909165	.	G	A	145.92	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=0.299;Cl
4898	chrY	9909172	.	A	T	448.42	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.603e+
4899	chrY	9909179	.	T	G	88.92	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.605e+
4900	chrY	9909186	.	A	G	87.87	PASS	AC=2;AF=0.037;AN=54;DP=6871;FS=0.000;Inbr
4901	chrY	9909192	.	T	C	115.97	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=0.717;Cl
4902	chrY	9909194	.	G	A	79.40	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=1.22;Cli
4903	chrY	9909196	.	T	C	337.37	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=1.13;Cli
4904	chrY	9909202	.	A	C	149.96	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=-1.333e+
4905	chrY	9909203	.	A	T	50.25	PASS	AC=2;AF=0.042;AN=48;DP=4377;FS=0.000;Inbr
4906	chrY	9909317	.	A	G	40.09	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
4907	chrY	9909332	.	G	T	36.57	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
4908	chrY	9909335	.	G	A	36.02	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
4909	chrY	9909337	.	A	T	36.02	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
4910	chrY	9909504	.	G	T	184.26	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
4911	chrY	9909507	.	G	A	373.79	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-8.510e-
4912	chrY	9909508	.	A	C	357.36	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-5.070e-
4913	chrY	9909511	.	A	T	152.44	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
4914	chrY	9909514	.	A	G	244.98	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
4915	chrY	9909518	.	A	G	248.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.821e+
4916	chrY	9909525	.	C	A	269.52	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
4917	chrY	9909527	.	T	G	231.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-6.780e-
4918	chrY	9909528	.	G	A	2650.79	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
4919	chrY	9909532	.	T	C	162.49	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
4920	chrY	9909536	.	G	C	442.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.100e-
4921	chrY	9909538	.	C	A	286.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-8.840e-
4922	chrY	9909543	.	G	T	187.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.647;Cl
4923	chrY	9909552	.	G	A	37.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4924	chrY	9909555	.	A	G	94.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.116e+
4925	chrY	9909557	.	T	A	289.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.065;Cl
4926	chrY	9909558	.	T	A	245.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.068e+
4927	chrY	9909562	.	T	C	230.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.580e-
4928	chrY	9909563	.	T	G,A	629.89	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
4929	chrY	9909566	.	T	A	1118.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-6.600e-
4930	chrY	9909567	.	T	C	91.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.470;Cl
4931	chrY	9909569	.	T	C	196.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.341e+
4932	chrY	9909570	.	C	G	772.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.960e+
4933	chrY	9909573	.	C	T	160.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.524;Cl
4934	chrY	9909577	.	C	A	58.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.055e+
4935	chrY	9909578	.	A	G	37.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
4936	chrY	9909580	.	C	A	72.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.830e-
4937	chrY	9909584	.	G	C	367.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.069;Cl
4938	chrY	9909588	.	G	A	123.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.59;Cli
4939	chrY	9909800	.	C	T	40.95	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-1.890e-
4940	chrY	9909802	.	T	C	34.20	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=

4941	chrY	9909805	.	A	T	37.41	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
4942	chrY	9909806	.	T	G	38.05	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
4943	chrY	9909813	.	C	A	33.44	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQRankSum=
4944	chrY	9909816	.	A	G	75.51	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=-1.278e+
4945	chrY	9909821	.	G	C	78.69	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-2.717e+
4946	chrY	9909826	.	G	T	75.65	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-8.520e-
4947	chrY	9909828	.	A	T	75.51	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-1.433e+
4948	chrY	9909840	.	A	T	78.71	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=-1.014e+
4949	chrY	9909844	.	T	C	71.37	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-2.038e+
4950	chrY	9909880	.	T	C	459.71	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=-9.310e
4951	chrY	9909901	.	C	A,*	174.48	PASS	AC=2,1;AF=0.045,0.023;AN=44;BaseQRankSum=
4952	chrY	9910104	.	C	G	538.55	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=0.074;Cl
4953	chrY	9910106	.	G	A	469.90	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=0.992;Cl
4954	chrY	9910107	.	T	C	359.39	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=0.370;Cl
4955	chrY	9910109	.	A	T	421.72	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=-5.550e-
4956	chrY	9910177	.	G	C	407.44	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.270e+
4957	chrY	9910179	.	C	T	401.51	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=0.420;Cl
4958	chrY	9910182	.	C	T	354.53	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-9.400e-
4959	chrY	9910183	.	C	T	359.97	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.319e+
4960	chrY	9910345	.	T	C	69.41	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
4961	chrY	9910374	.	T	C	50.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
4962	chrY	9911559	.	G	T	173.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.860e-
4963	chrY	9911563	.	A	G	168.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.500e-
4964	chrY	9911565	.	C	A	168.46	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.083;Cl
4965	chrY	9911568	.	G	T	162.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.246e+
4966	chrY	9914040	.	G	T	50.76	PASS	AC=2;AF=0.063;AN=32;DP=605;FS=0.000;Inbre
4967	chrY	9914042	.	G	A	73.17	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=0.261;Cl
4968	chrY	9914044	.	C	G	141.49	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=-1.735e+
4969	chrY	9914055	.	T	C	81.43	PASS	AC=2;AF=0.067;AN=30;DP=638;FS=6.201;Inbre
4970	chrY	9914115	.	A	G	201.38	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.544;Cl
4971	chrY	9914123	.	G	T	56.09	PASS	AC=2;AF=0.056;AN=36;DP=725;FS=0.000;Inbre
4972	chrY	9914127	.	G	C	56.51	PASS	AC=2;AF=0.053;AN=38;DP=706;FS=0.000;Inbre
4973	chrY	9914128	.	A	T	56.51	PASS	AC=2;AF=0.053;AN=38;DP=706;FS=0.000;Inbre
4974	chrY	9914139	.	C	T	55.16	PASS	AC=2;AF=0.059;AN=34;DP=661;FS=0.000;Inbre
4975	chrY	9914178	.	T	A	255.76	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=0.146;Cl
4976	chrY	9914179	.	C	A	252.15	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=1.88;Cl
4977	chrY	9914183	.	C	G	306.57	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=0.962;Cl
4978	chrY	9914192	.	G	A	102.87	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-3.750e-
4979	chrY	9914194	.	A	G	41.31	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
4980	chrY	9914195	.	T	A	954.61	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=0.847;Cl
4981	chrY	9914201	.	C	T	1264.04	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=1.30;Cli
4982	chrY	9914202	.	T	C	1151.11	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=1.75;Cli
4983	chrY	9914204	.	C	A	114.23	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=0.995;Cl
4984	chrY	9914205	.	A	T	94.15	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-7.500e-
4985	chrY	9914215	.	G	A,*	580.93	PASS	AC=3,3;AF=0.060,0.060;AN=50;BaseQRankSum=
4986	chrY	9914216	.	G	T,*	682.86	PASS	AC=4,3;AF=0.080,0.060;AN=50;BaseQRankSum=
4987	chrY	9914219	.	C	T	133.86	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-7.830e-
4988	chrY	9914223	.	T	A,C	251.61	PASS	AC=1,2;AF=0.019,0.038;AN=52;BaseQRankSum=
4989	chrY	9914224	.	G	T,C	218.32	PASS	AC=1,1;AF=0.019,0.019;AN=52;BaseQRankSum=
4990	chrY	9914227	.	T	G	118.98	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=1.08;Cli
4991	chrY	9914228	.	G	C	120.65	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-1.528e+
4992	chrY	9914231	.	C	G	206.29	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=1.80;Cli
4993	chrY	9914233	.	T	G	164.55	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=0.878;Cl
4994	chrY	9914238	.	G	C	273.08	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=1.61;Cli
4995	chrY	9914240	.	A	G	269.56	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=1.53;Cli
4996	chrY	9914241	.	A	G	311.62	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=1.58;Cli
4997	chrY	9914244	.	A	C	502.18	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=1.43;Cli
4998	chrY	9914250	.	T	C,*	519.07	PASS	AC=2,1;AF=0.045,0.023;AN=44;BaseQRankSum=
4999	chrY	9914251	.	C	T,*	544.73	PASS	AC=3,1;AF=0.075,0.025;AN=40;BaseQRankSum=
5000	chrY	9914259	.	C	A	426.51	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=2.67;Cli
5001	chrY	9914270	.	A	C	123.69	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=-1.110e-
5002	chrY	9914276	.	G	A	462.12	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=0.027;Cl
5003	chrY	9914289	.	C	A	444.04	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=1.57;Cli
5004	chrY	9914290	.	T	C	563.45	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=0.305;Cl
5005	chrY	9914299	.	A	G	63.88	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=1.60;Cli
5006	chrY	9914303	.	G	C	487.11	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=-3.976e+
5007	chrY	9914337	.	T	A	62.99	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
5008	chrY	9914349	.	A	T	289.63	PASS	AC=5;AF=0.357;AN=14;BaseQRankSum=0.392;Cl
5009	chrY	9914356	.	A	G	340.75	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.600;Cl
5010	chrY	9914359	.	G	A	50.32	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQRankSum=
5011	chrY	9914361	.	G	A	141.51	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=
5012	chrY	9914362	.	A	T	437.27	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=0.501;Cl
5013	chrY	9914363	.	G	C	227.78	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=0.453;Cl
5014	chrY	9914371	.	C	T	49.01	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.248;Cl
5015	chrY	9914373	.	C	G	231.68	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-1.567e+
5016	chrY	9914383	.	A	T	296.34	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=-4.150e-

5017	chrY	9914385	.	T	A,*	594.13	PASS	AC=3,1;AF=0.136,0.045;AN=22;BaseQRankSum=
5018	chrY	9914391	.	T	A	51.37	my_snp_filter	AC=2;AF=0.083;AN=24;DP=858;FS=0.0
5019	chrY	9914395	.	G	C	348.98	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=-1.272e+
5020	chrY	9914417	.	G	A,*	940.45	PASS	AC=3,4;AF=0.136,0.182;AN=22;BaseQRankSum=
5021	chrY	9914419	.	T	A	92.39	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
5022	chrY	9914427	.	A	G	94.50	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
5023	chrY	9914436	.	G	A	156.67	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=2.21;Cli
5024	chrY	9914437	.	T	G	125.92	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=2.72;Cli
5025	chrY	9914442	.	A	G	148.17	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=-7.840e-
5026	chrY	9914445	.	T	C	562.79	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=-2.427e+
5027	chrY	9914446	.	G	C	434.13	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=-2.814e+
5028	chrY	9914451	.	T	G	886.94	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-1.300e+
5029	chrY	9914452	.	C	G	131.60	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-1.775e+
5030	chrY	9914458	.	A	G	102.28	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
5031	chrY	9914459	.	G	C	180.09	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=2.86;Cli
5032	chrY	9914463	.	A	G	97.01	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQRankSum=
5033	chrY	9914466	.	G	A	138.76	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=2.86;Cli
5034	chrY	9914479	.	T	C	132.78	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=-9.900e-
5035	chrY	9914492	.	T	A	863.80	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=-1.016e+
5036	chrY	9914500	.	A	C	348.74	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-7.830e-
5037	chrY	9914518	.	C	A	142.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.29;Cli
5038	chrY	9914521	.	C	A	111.30	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.420e-
5039	chrY	9914525	.	T	C	278.58	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-2.289e+
5040	chrY	9914527	.	G	A	44.65	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5041	chrY	9914530	.	G	T	43.77	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5042	chrY	9914557	.	A	C	175.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.730e-
5043	chrY	9914561	.	G	C	112.22	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.492;Cl
5044	chrY	9915364	.	C	T	60.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=1.74;Cli
5045	chrY	9915365	.	T	A	60.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-3.184e+
5046	chrY	9915370	.	T	A	54.52	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
5047	chrY	9915373	.	A	G	58.96	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=0.348;Cl
5048	chrY	9915377	.	A	T	49.24	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum=
5049	chrY	9915386	.	G	A	37.29	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
5050	chrY	9915389	.	T	C	35.59	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
5051	chrY	9915393	.	T	A	36.77	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
5052	chrY	9915396	.	G	T	36.06	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
5053	chrY	9915403	.	A	T	35.36	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
5054	chrY	9915415	.	T	G	31.69	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
5055	chrY	9915430	.	C	A	34.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5056	chrY	9915434	.	C	A	34.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5057	chrY	9915443	.	G	A	37.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5058	chrY	9915629	.	G	C	130.17	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-1.257e+
5059	chrY	9915666	.	C	A	54.33	PASS	AC=2;AF=0.077;AN=26;DP=1011;FS=0.000;Inbr
5060	chrY	9915670	.	A	C	56.56	PASS	AC=2;AF=0.125;AN=16;DP=1089;FS=0.000;MLEA
5061	chrY	9915683	.	C	A	57.95	PASS	AC=2;AF=0.125;AN=16;DP=802;FS=0.000;MLEAC
5062	chrY	9915684	.	T	A	182.23	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=1.80;Cli
5063	chrY	9915818	.	C	T	394.76	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.19;Cli
5064	chrY	9915954	.	A	T	246.77	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=1.39;Cli
5065	chrY	9915959	.	C	A	236	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=-1.701e+
5066	chrY	9915962	.	C	A	226.20	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=0.694;Cl
5067	chrY	9915966	.	T	G	63.32	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQRankSum=
5068	chrY	9915974	.	T	C	327.25	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=0.724;Cl
5069	chrY	9915975	.	G	A	387.59	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=0.298;Cl
5070	chrY	9915977	.	A	T	315.32	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=-1.010e-
5071	chrY	9915978	.	G	A	245.65	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=0.531;Cl
5072	chrY	9915979	.	A	C,G	1169.80	PASS	AC=5,2;AF=0.250,0.100;AN=20;BaseQRankSum=
5073	chrY	9915980	.	G	A	284.33	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.891;Cl
5074	chrY	9915986	.	C	T	118.54	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=0.654;Cl
5075	chrY	9915987	.	A	G	56.72	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQRankSum=
5076	chrY	9915989	.	C	T	113.61	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=1.16;Cli
5077	chrY	9915991	.	T	C	258.25	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=1.23;Cli
5078	chrY	9915993	.	T	C	252.02	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-3.124e+
5079	chrY	9915996	.	C	T	683.33	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=-4.260e-
5080	chrY	9916002	.	A	G	462.15	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=-2.710e-
5081	chrY	9916009	.	G	A	917.35	PASS	AC=6;AF=0.375;AN=16;BaseQRankSum=0.741;Cl
5082	chrY	9916011	.	C	A	490.83	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=0.382;Cl
5083	chrY	9916018	.	T	A	129.48	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=0.538;Cl
5084	chrY	9916021	.	T	A	1219.73	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=0.544;Cl
5085	chrY	9916031	.	T	G	1748.15	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=1.10;Cli
5086	chrY	9916037	.	A	T	235.26	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=-2.306e+
5087	chrY	9916078	.	A	G	48.47	PASS	AC=2;AF=0.038;AN=52;DP=2734;FS=0.000;Inbr
5088	chrY	9916084	.	A	C	48.37	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-1.102e+
5089	chrY	9916085	.	A	C	120.73	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
5090	chrY	9916088	.	T	G	171.05	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-2.255e+
5091	chrY	9916089	.	T	G	172.90	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=-9.830e-
5092	chrY	9916090	.	C	A	171.09	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=3.28;Cli

5093	chrY	9916091	.	T	C	32.01	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=0.736;C
5094	chrY	9916100	.	A	T	32.60	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.736;C
5095	chrY	9916101	.	G	A	281.52	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=1.16;C
5096	chrY	9916102	.	C	G	175.37	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-3.880e-
5097	chrY	9916103	.	A	G	138.85	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=-3.710e-
5098	chrY	9916107	.	T	C	340.24	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=-3.250e-
5099	chrY	9916109	.	G	T	327.56	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=-1.320e+
5100	chrY	9916115	.	C	T	312.01	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.876;C
5101	chrY	9916117	.	C	T	139.19	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=1.95;C
5102	chrY	9916125	.	A	G	246.10	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=0.00;C
5103	chrY	9916126	.	G	A	85.49	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQRankSum=
5104	chrY	9916127	.	A	G	63.52	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQRankSum=
5105	chrY	9916133	.	A	C	1067.26	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=-1.378e+
5106	chrY	9916136	.	G	T	174.15	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=2.00;C
5107	chrY	9916145	.	A	T	408.87	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-6.000e-
5108	chrY	9916149	.	T	G	534.21	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=-1.737e+
5109	chrY	9916160	.	C	A	76.73	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-9.550e-
5110	chrY	9916164	.	T	A	41.50	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQRankSum=
5111	chrY	9916173	.	A	T	214.68	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=-8.670e-
5112	chrY	9916193	.	A	T	42.07	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
5113	chrY	9916199	.	T	A	72.20	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
5114	chrY	9916200	.	C	T	42.93	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-5.670e-
5115	chrY	9916488	.	T	A	42.16	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-3.580e-
5116	chrY	9916490	.	G	A	38.92	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.231e+
5117	chrY	9916493	.	G	T	41.57	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-1.231e+
5118	chrY	9916647	.	G	A	31.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.220e-
5119	chrY	9916805	.	A	G	128.37	PASS	AC=4;AF=0.067;AN=60;DP=294;FS=0.000;Inbre
5120	chrY	9916818	.	T	G	47.76	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-7.360e-
5121	chrY	9916820	.	G	T	45.46	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-7.360e-
5122	chrY	9917076	.	A	G	79.80	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
5123	chrY	9917083	.	T	A	54.51	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-1.174e+
5124	chrY	9917092	.	G	A	61.22	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=0.168;C
5125	chrY	9917098	.	C	A	41.47	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=1.38;C
5126	chrY	9917101	.	T	A	34.80	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQRankSum=
5127	chrY	9917111	.	T	A	41.76	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=2.13;C
5128	chrY	9917118	.	C	T	95.10	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-9.100e-
5129	chrY	9917589	.	T	C	102.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-4.950e-
5130	chrY	9917591	.	T	G	101.76	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-2.051e+
5131	chrY	9917656	.	T	A	1063.27	PASS	AC=22;AF=0.524;AN=42;DP=233;FS=0.000;Inbr
5132	chrY	9917709	.	C	T	174.37	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=0.248;C
5133	chrY	9917727	.	G	T	151.80	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.762;C
5134	chrY	9917729	.	G	A	153.11	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.067;C
5135	chrY	9917731	.	A	T	150.70	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=1.67;C
5136	chrY	9917738	.	A	G	144.99	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=-1.050e+
5137	chrY	9917743	.	C	G	139.24	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.762;C
5138	chrY	9917753	.	A	G	146.18	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=-7.470e-
5139	chrY	9917756	.	T	C	106.56	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=-7.470e-
5140	chrY	9918281	.	T	C	80.22	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5141	chrY	9918282	.	G	C	124.60	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
5142	chrY	9918284	.	T	A	77.42	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5143	chrY	9918292	.	G	C	119.69	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5144	chrY	9918299	.	A	G	72.64	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5145	chrY	9918301	.	C	A	119.13	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5146	chrY	9918307	.	T	A	72.90	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5147	chrY	9918323	.	A	G	35.53	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5148	chrY	9918331	.	A	G	44.66	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5149	chrY	9918332	.	C	T	48.08	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5150	chrY	9918335	.	C	G	53.67	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5151	chrY	9918339	.	A	G	53.72	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5152	chrY	9919190	.	C	T	306.56	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=1.12;C
5153	chrY	9919244	.	C	T	710.15	PASS	AC=16;AF=0.533;AN=30;BaseQRankSum=0.731;C
5154	chrY	9919248	.	T	C	47.42	PASS	AC=2;AF=0.033;AN=60;DP=4778;FS=0.000;Inbr
5155	chrY	9919261	.	T	C	617.25	PASS	AC=14;AF=0.389;AN=36;BaseQRankSum=-7.360e-
5156	chrY	9919267	.	G	A	507.39	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum=-7.360e-
5157	chrY	9919283	.	G	T	384.49	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=1.33;C
5158	chrY	9919404	.	T	C	697.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-4.040e+
5159	chrY	9919414	.	T	C	1450.88	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
5160	chrY	9919422	.	C	A	2453.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5161	chrY	9919429	.	G	C	2501.67	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQRankSum=
5162	chrY	9919430	.	A	G	2539.73	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
5163	chrY	9919439	.	C	T	2527.99	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
5164	chrY	9919444	.	T	C	2531.67	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
5165	chrY	9919447	.	A	T	2485.06	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
5166	chrY	9919448	.	C	T	2528.78	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
5167	chrY	9919453	.	C	A	2521.15	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
5168	chrY	9919456	.	T	C	2473.94	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=

5169	chrY	9919458	.	C	T	2476.53	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
5170	chrY	9919463	.	T	C	599.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.55;Cli
5171	chrY	9919477	.	G	A	40.12	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.231e+
5172	chrY	9919491	.	C	G	147.76	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-1.026e+
5173	chrY	9919497	.	A	C	509.59	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=2.45;Cli
5174	chrY	9919504	.	G	T	42.52	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.026e+
5175	chrY	9919510	.	A	G,*	408.18	PASS	AC=2,3;AF=0.032,0.048;AN=62;BaseQRankSum=
5176	chrY	9919512	.	A	T	193.53	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=-1.257e+
5177	chrY	9919519	.	G	A	562.27	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=2.94;Cli
5178	chrY	9919526	.	A	G,*	494.60	PASS	AC=1,1;AF=0.021,0.021;AN=48;BaseQRankSum=
5179	chrY	9919528	.	A	T	249.74	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-5.920e-
5180	chrY	9919534	.	A	G	680.44	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=0.063;Cl
5181	chrY	9919540	.	G	C	663.80	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=1.05;Cli
5182	chrY	9919549	.	C	G	633.65	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=0.300;Cl
5183	chrY	9919551	.	G	C	250.88	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-2.149e+
5184	chrY	9919553	.	A	G	251.07	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=-1.422e+
5185	chrY	9919554	.	G	T	1005.39	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=0.066;Cl
5186	chrY	9919555	.	A	G	633.15	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=-2.739e+
5187	chrY	9919562	.	T	C	252.06	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=-9.990e-
5188	chrY	9919563	.	G	C	255.22	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=0.590;Cl
5189	chrY	9919573	.	T	A	995.40	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=-3.191e+
5190	chrY	9919574	.	T	G	996.14	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=-1.714e+
5191	chrY	9919575	.	T	G	616.15	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=-1.054e+
5192	chrY	9919584	.	C	T,*	541.80	PASS	AC=1,3;AF=0.015,0.045;AN=66;BaseQRankSum=
5193	chrY	9919594	.	A	G,*	533.14	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQRankSum=
5194	chrY	9919601	.	A	G	634.91	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-1.416e+
5195	chrY	9919606	.	C	A	909.71	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-8.300e-
5196	chrY	9919609	.	G	T	637.58	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.09;Cli
5197	chrY	9919611	.	C	G	639.94	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-2.823e+
5198	chrY	9919623	.	C	A	164.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.396e+
5199	chrY	9919633	.	T	C	124.87	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.824e+
5200	chrY	9919643	.	A	G	131.94	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-3.154e+
5201	chrY	9919644	.	T	C	137.13	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-2.161e+
5202	chrY	9919646	.	A	G	140.69	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-3.004e+
5203	chrY	9919652	.	A	C	95.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.415e+
5204	chrY	9919820	.	C	T	119.65	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.771;Cl
5205	chrY	9919848	.	T	C	38.71	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.231e+
5206	chrY	9919855	.	C	T	39.04	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-1.231e+
5207	chrY	9919857	.	C	G	355.60	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=-2.103e+
5208	chrY	9919859	.	G	A	283.22	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-1.646e+
5209	chrY	9919882	.	T	G	410.83	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=-1.240e-
5210	chrY	9919891	.	T	G	411.57	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=0.405;Cl
5211	chrY	9919909	.	A	G	335.69	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=-1.746e+
5212	chrY	9919914	.	A	T	211.50	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=-4.040e-
5213	chrY	9919917	.	T	G	207.79	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=0.186;Cl
5214	chrY	9919934	.	T	C	49.19	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=1.06;Cli
5215	chrY	9920078	.	A	G	83.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.420e-
5216	chrY	9920084	.	T	A	49.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.780e-
5217	chrY	9920087	.	G	T	47.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.592;Cl
5218	chrY	9920122	.	A	G	88.09	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=1.20;Cli
5219	chrY	9920124	.	C	G	118.69	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-5.670e-
5220	chrY	9920133	.	A	T	73.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-8.520e-
5221	chrY	9920264	.	C	A	380.27	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=-7.610e-
5222	chrY	9920270	.	T	G	326.66	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=-1.775e+
5223	chrY	9920271	.	A	T	350.60	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=-1.280e+
5224	chrY	9920279	.	C	G	355.62	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=-3.820e+
5225	chrY	9920527	.	G	T	17568.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
5226	chrY	9920528	.	G	A	914.30	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5227	chrY	9920534	.	C	G	2031.57	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.545e+
5228	chrY	9920535	.	T	A	17416.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
5229	chrY	9920543	.	G	A	22816.09	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
5230	chrY	9920548	.	T	G	1720.25	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.732e+
5231	chrY	9920561	.	A	G	227.77	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.666e+
5232	chrY	9920577	.	C	T	279.45	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=-7.360e-
5233	chrY	9920578	.	A	G	276.46	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=-7.360e-
5234	chrY	9920580	.	T	C	240	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.231e+
5235	chrY	9920787	.	T	A	162.03	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=-9.450e-
5236	chrY	9920810	.	G	T	151.93	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=-2.218e+
5237	chrY	9920813	.	A	C	109.74	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=1.09;Cli
5238	chrY	9920821	.	A	C	63.79	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-2.648e+
5239	chrY	9920943	.	G	A	11133.01	PASS	AC=68;AF=1.00;AN=68;DP=388;FS=0.0
5240	chrY	9921064	.	A	G	4910.50	PASS	AC=53;AF=0.946;AN=56;BaseQRankSum=-1.734e-
5241	chrY	9921516	.	G	A	298.86	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=-4.540e-
5242	chrY	9921530	.	G	T	470.04	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=0.868;Cl
5243	chrY	9921538	.	G	A	442.11	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=-1.088e+
5244	chrY	9921540	.	T	C	388.33	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-2.627e+

5245	chrY	9921543	.	C	A	490.83	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=0.317;Cl
5246	chrY	9921545	.	A	C	436.04	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-3.908e+
5247	chrY	9921564	.	C	T	403.41	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=-3.743e+
5248	chrY	9921577	.	C	G	109.02	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-1.672e+
5249	chrY	9921580	.	T	C	399.92	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-2.627e+
5250	chrY	9921582	.	A	G	400.84	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=1.58;Cl
5251	chrY	9921588	.	A	T	400.53	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=-6.600e-0
5252	chrY	9921592	.	T	G	416.68	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=2.00;Cli
5253	chrY	9921603	.	A	T	399.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=0.058;Cli
5254	chrY	9921604	.	C	A	395.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.94;Cli
5255	chrY	9921609	.	C	A	399.64	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=-1.077e+
5256	chrY	9921613	.	G	C	401.06	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=-1.262e+
5257	chrY	9921618	.	T	G	402.70	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=3.29;Cli
5258	chrY	9921634	.	A	T	435.90	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=3.94;Clip
5259	chrY	9921648	.	C	G	389.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.03;Cli
5260	chrY	9921656	.	T	G	258.04	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=2.11;Cli
5261	chrY	9921672	.	C	T	341.59	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=2.36;Cli
5262	chrY	9921674	.	C	T	384.42	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=1.85;Cli
5263	chrY	9921675	.	A	G	428.59	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=0.386;Cl
5264	chrY	9921779	.	T	A	67.84	PASS	AC=2;AF=1.000;AN=2;DP=850;FS=0.000;MLEAC=2
5265	chrY	9921787	.	G	C	60.81	PASS	AC=2;AF=0.111;AN=18;DP=864;FS=0.000;MLEAC
5266	chrY	9921795	.	T	A	60.11	PASS	AC=2;AF=0.167;AN=12;DP=904;FS=0.000;MLEAC
5267	chrY	9921796	.	C	A	60.11	PASS	AC=2;AF=0.167;AN=12;DP=904;FS=0.000;MLEAC
5268	chrY	9921879	.	C	T	129.13	PASS	AC=2;AF=0.071;AN=28;DP=745;FS=0.000;Inbre
5269	chrY	9921880	.	A	G	102.45	PASS	AC=2;AF=0.071;AN=28;DP=756;FS=0.000;Inbre
5270	chrY	9921886	.	T	C	59.79	PASS	AC=2;AF=0.167;AN=12;DP=864;FS=0.000;MLEAC
5271	chrY	9921892	.	T	G	208.87	PASS	AC=2;AF=0.091;AN=22;DP=528;FS=0.000;Inbre
5272	chrY	9921897	.	T	C	142.50	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-3.030e-
5273	chrY	9921900	.	C	A	197.93	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.490;Cl
5274	chrY	9921915	.	A	G	127.25	PASS	AC=2;AF=0.059;AN=34;DP=769;FS=0.000;Inbre
5275	chrY	9921917	.	T	A	139.97	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-4.570e-
5276	chrY	9921963	.	A	T	340.98	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=-1.931e+
5277	chrY	9921965	.	C	G	340.98	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=-1.464e+
5278	chrY	9922459	.	T	A	33.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.200e-
5279	chrY	9922460	.	C	A	34.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
5280	chrY	9923168	.	T	A	216.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.21;Cli
5281	chrY	9923171	.	C	G	216.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.31;Cli
5282	chrY	9923181	.	T	C	199.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.07;Cli
5283	chrY	9923191	.	T	G	124.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.27;Cli
5284	chrY	9923586	.	C	T	1136.09	PASS	AC=6;AF=0.250;AN=24;DP=179;FS=0.000;Inbre
5285	chrY	9923923	.	T	C	1675.79	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=-1.641e+
5286	chrY	9923929	.	A	C	36.56	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQRankSum=
5287	chrY	9923931	.	A	C	36.80	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQRankSum=
5288	chrY	9923935	.	G	T	1658.26	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=-9.470e-
5289	chrY	9923937	.	T	C	1691.92	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=-1.746e+
5290	chrY	9923940	.	C	G	1639.47	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=-6.970e-
5291	chrY	9923946	.	A	T	1673.80	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=0.060;Cl
5292	chrY	9923953	.	A	G	64.46	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQRankSum=
5293	chrY	9923954	.	T	C	1505.29	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=-2.417e+
5294	chrY	9923959	.	A	C	1505.99	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=-1.097e+
5295	chrY	9923972	.	A	G	1412.01	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=-1.110e+
5296	chrY	9923974	.	A	C	1228.18	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=-1.123e+
5297	chrY	9923982	.	T	A	1266.27	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=-1.073e+
5298	chrY	9923983	.	G	A	1229.28	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=0.335;Cl
5299	chrY	9923984	.	T	A	1269.45	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=-1.172e+
5300	chrY	9923997	.	C	A	1290.55	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=-5.620e-
5301	chrY	9924008	.	A	T	1048.06	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=-5.860e-
5302	chrY	9924010	.	G	T	884.40	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=1.45;Cli
5303	chrY	9924014	.	T	C	702.38	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=0.659;Cl
5304	chrY	9924015	.	G	A	591.89	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=0.945;Cl
5305	chrY	9924016	.	A	G	334.84	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=-1.071e+
5306	chrY	9924024	.	T	A	40.40	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQRankSum=
5307	chrY	9924148	.	A	G	307.80	PASS	AC=2;AF=0.034;AN=58;DP=700;FS=0.000;Inbre
5308	chrY	9924402	.	G	A	98.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.48;Cli
5309	chrY	9924403	.	C	T	104.59	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.360;Cl
5310	chrY	9924406	.	C	T	47.40	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
5311	chrY	9924411	.	C	T,A	445.96	PASS	AC=3,1;AF=0.052,0.017;AN=58;BaseQRankSum=
5312	chrY	9924414	.	T	C	104.57	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-9.180e-
5313	chrY	9924422	.	T	G	37.98	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.380e+
5314	chrY	9924424	.	A	T	143.58	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
5315	chrY	9924430	.	T	C	165.77	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
5316	chrY	9924433	.	C	G	74.62	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-1.700e-
5317	chrY	9924434	.	C	G	200.82	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
5318	chrY	9924438	.	T	A	92.84	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
5319	chrY	9924441	.	A	T	86.41	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
5320	chrY	9924443	.	A	C	544.78	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=-3.300e-

5321	chrY	9924448	.	G	A	255.99	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=-4.800e-
5322	chrY	9924455	.	T	G,*	364.83	PASS	AC=3,2;AF=0.058,0.038;AN=52;BaseQRankSum=
5323	chrY	9924461	.	C	A	114.12	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=-2.358e+
5324	chrY	9924469	.	C	T	111.71	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=-6.510e-
5325	chrY	9924475	.	G	A	91.84	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=1.04;Cli
5326	chrY	9924485	.	T	C	184.09	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=0.578;Cl
5327	chrY	9924556	.	G	A	1403.66	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=-1.579e+
5328	chrY	9924574	.	G	C	259.72	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=1.12;Cli
5329	chrY	9924606	.	T	C	51.93	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-7.360e-
5330	chrY	9924618	.	G	T	47.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.360e-
5331	chrY	9924623	.	C	G	43.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.470e-
5332	chrY	9924629	.	G	T	38.18	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.747;Cl
5333	chrY	9924637	.	T	C	33.43	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-7.510e-
5334	chrY	9924642	.	A	C	32.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.393e+
5335	chrY	9924926	.	G	A	173.18	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=0.714;Cl
5336	chrY	9924937	.	A	C	163.79	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=-2.480e-
5337	chrY	9924939	.	A	G	407.65	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-1.575e+
5338	chrY	9924940	.	G	T	281.65	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=0.352;Cl
5339	chrY	9924958	.	C	G	338.64	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=1.20;Cli
5340	chrY	9924989	.	A	C	91.66	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-6.510e-
5341	chrY	9924990	.	A	T	30.79	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=-1.917e+
5342	chrY	9924995	.	A	C	126.26	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=1.12;Cli
5343	chrY	9925035	.	G	A	71.84	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=0.566;Cl
5344	chrY	9925038	.	A	T	70.88	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=1.11;Cli
5345	chrY	9925040	.	C	A	71.04	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=0.566;Cl
5346	chrY	9925042	.	C	A	70.75	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=1.53;Cl
5347	chrY	9925057	.	T	G	88.27	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-1.479e+
5348	chrY	9925058	.	T	C	88.27	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-7.400e-
5349	chrY	9925060	.	T	C	85.27	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-1.312e+
5350	chrY	9925071	.	G	T	67.45	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-2.480e-
5351	chrY	9925072	.	A	T	71.54	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-2.054e+
5352	chrY	9925259	.	T	G	40.88	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
5353	chrY	9925263	.	A	C	352.94	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=-5.000e-
5354	chrY	9925265	.	A	G	452.12	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-2.080e-
5355	chrY	9925273	.	T	C	47.81	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
5356	chrY	9925282	.	A	G	50.54	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
5357	chrY	9925283	.	T	C	47.22	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
5358	chrY	9925298	.	A	C	35.47	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQRankSum=
5359	chrY	9925312	.	T	G	222.79	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=-3.130e-
5360	chrY	9925315	.	T	C	41.32	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQRankSum=
5361	chrY	9925318	.	T	A	88.29	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.950;Cl
5362	chrY	9925326	.	T	A	50.74	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=-8.290e-
5363	chrY	9925344	.	A	T	47.67	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-1.659e+
5364	chrY	9925346	.	C	G	55.44	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=0.948;Cl
5365	chrY	9925353	.	G	T	50.94	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=-5.600e-
5366	chrY	9925356	.	A	T	44.45	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=-1.733e+
5367	chrY	9925364	.	C	A	45.40	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=-2.516e+
5368	chrY	9925370	.	A	T	49.93	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=-2.205e+
5369	chrY	9925375	.	A	T	49.60	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=-2.205e+
5370	chrY	9925384	.	C	A	46.21	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=0.315;Cl
5371	chrY	9925473	.	C	T	1140.09	PASS	AC=6;AF=0.097;AN=62;DP=361;FS=0.000;Inbre
5372	chrY	9925535	.	A	C	42.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.03;Cli
5373	chrY	9925536	.	G	A	41.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.03;Cli
5374	chrY	9925552	.	T	G	45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.736;Cl
5375	chrY	9925555	.	G	C	44.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.736;Cl
5376	chrY	9925571	.	T	G	38.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.23;Cl
5377	chrY	9925577	.	A	T	35.29	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
5378	chrY	9925582	.	C	T	39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
5379	chrY	9925583	.	T	C	39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
5380	chrY	9925584	.	G	A	39.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
5381	chrY	9925629	.	T	G	596.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.07;Cl
5382	chrY	9925633	.	G	A	594.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.646;Cl
5383	chrY	9925635	.	G	A	596.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.40;Cli
5384	chrY	9925645	.	A	T	67.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5385	chrY	9925650	.	C	T	962.65	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.05;Cli
5386	chrY	9925651	.	T	G	2577.25	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-6.780e
5387	chrY	9925655	.	T	C	2170.26	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-1.569e
5388	chrY	9925658	.	T	C	82.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5389	chrY	9925708	.	G	T	26219.85	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
5390	chrY	9925723	.	T	C	1553.43	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.129;C
5391	chrY	9925724	.	C	A	1549.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.060e
5392	chrY	9925728	.	A	G	25615.78	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
5393	chrY	9925732	.	A	G	19065.29	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
5394	chrY	9925735	.	T	C	29465.25	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
5395	chrY	9925736	.	G	C	24382.25	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
5396	chrY	9925743	.	A	G	4137.01	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-1.522e

5397	chrY	9925750	.	G	A	22084.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5398	chrY	9925765	.	A	G	23063.56	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5399	chrY	9925770	.	C	T	15830.79	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5400	chrY	9925771	.	A	G	20892.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5401	chrY	9925783	.	T	C	236.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.904;C
5402	chrY	9925798	.	A	G	11330.91	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
5403	chrY	9925799	.	G	A	11264.91	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
5404	chrY	9925806	.	C	T	278.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.05;C
5405	chrY	9925811	.	C	A,T	1598.37	PASS	AC=4,8;AF=0.057,0.114;AN=70;BaseQRankSum
5406	chrY	9925813	.	A	G	8170.96	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=1.39;C
5407	chrY	9925815	.	C	G,A	6437.20	PASS	AC=16,1;AF=0.235,0.015;AN=68;BaseQRankSum
5408	chrY	9925819	.	A	G	6337.92	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=1.09;C
5409	chrY	9925849	.	C	A	409.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.85;C
5410	chrY	9925851	.	T	C	2118.57	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.030e
5411	chrY	9925855	.	C	G	1897.08	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.613;C
5412	chrY	9925856	.	A	G	1895.07	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.58;C
5413	chrY	9925863	.	T	G	1570.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-5.840e
5414	chrY	9925867	.	G	A	935.61	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.680e
5415	chrY	9925879	.	T	A	940.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.37;C
5416	chrY	9925882	.	G	C	83.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.901;C
5417	chrY	9925887	.	T	A	1109.60	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.570;C
5418	chrY	9925889	.	G	T	974.50	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.938;C
5419	chrY	9925891	.	A	T	1217.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.05;C
5420	chrY	9925896	.	T	G	68.32	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
5421	chrY	9925899	.	T	A	1405.94	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.945;C
5422	chrY	9925900	.	T	C	1441.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.200e
5423	chrY	9925913	.	C	T	1150.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.990e
5424	chrY	9925935	.	C	G	212.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.884e+
5425	chrY	9925945	.	A	T	206.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-4.700e
5426	chrY	9925954	.	C	T	1047.40	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.120e
5427	chrY	9925960	.	C	G	1114.08	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=2.79;C
5428	chrY	9925961	.	G	A	1348.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.353e+
5429	chrY	9925965	.	A	G	5038.38	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5430	chrY	9925968	.	A	C	5660.21	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
5431	chrY	9925969	.	G	A	372.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.25;C
5432	chrY	9925972	.	T	C	2577.96	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum
5433	chrY	9926022	.	G	A	234.10	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.720;C
5434	chrY	9926023	.	T	A	225.40	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=0.736;C
5435	chrY	9926032	.	G	T	83.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.537e+
5436	chrY	9926039	.	G	A	191.40	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=-7.420e
5437	chrY	9926042	.	T	C	83.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-1.231e+
5438	chrY	9926043	.	G	A	83.39	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.358;C
5439	chrY	9926048	.	G	A	41.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e
5440	chrY	9926056	.	A	T	120.96	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-7.310e
5441	chrY	9926400	.	C	T	31.93	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum
5442	chrY	9926427	.	A	G	199.68	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-2.166e+
5443	chrY	9926429	.	G	A	195.99	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.931e+
5444	chrY	9926435	.	C	T	161.78	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-1.733e+
5445	chrY	9926436	.	A	G	160.52	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-7.150e
5446	chrY	9926439	.	G	T	118.45	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.73;C
5447	chrY	9928950	.	T	C	295.99	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-7.470e
5448	chrY	9928954	.	C	A	294.23	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-7.290e
5449	chrY	9928955	.	A	G	296.84	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-7.200e
5450	chrY	9928990	.	T	G	539.33	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.133e+
5451	chrY	9929013	.	T	C	1146.27	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-4.410e
5452	chrY	9929016	.	C	A	392.41	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.369e+
5453	chrY	9929041	.	T	A	697.68	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-4.200e
5454	chrY	9929042	.	C	A	701.31	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-1.580e
5455	chrY	9929078	.	C	A	37.81	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.231e+
5456	chrY	9929096	.	C	G	1563.80	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum=-7.200e
5457	chrY	9929156	.	T	G	819.98	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-1.844e+
5458	chrY	9929184	.	C	T	655.34	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=0.824;C
5459	chrY	9929214	.	C	T	692.58	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.139;C
5460	chrY	9929223	.	T	C	575.84	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-3.490e
5461	chrY	9929226	.	T	C	545.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.429;C
5462	chrY	9929230	.	A	C	477.83	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.212;C
5463	chrY	9929252	.	A	C	86.26	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=1.53;C
5464	chrY	9929261	.	A	G	246.71	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.741e+
5465	chrY	9929292	.	T	C	2572.36	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-5.500e
5466	chrY	9929301	.	G	A	2917.33	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-5.500e
5467	chrY	9929308	.	C	T	3117.01	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=-6.840e
5468	chrY	9929314	.	G	C	3171.05	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-6.480e
5469	chrY	9929351	.	A	T	2379.97	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=0.058;C
5470	chrY	9929359	.	C	A	2097.94	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=0.922;C
5471	chrY	9929372	.	T	C	1303.15	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=0.262;C
5472	chrY	9929373	.	G	A	1298.79	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=0.731;C

5473	chrY	9929374	.	T	C	1298.02	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=-2.237e
5474	chrY	9929378	.	A	T	1142.74	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=0.00;Cl
5475	chrY	9929379	.	G	C	1146.36	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=0.731;C
5476	chrY	9929440	.	G	T	345.05	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.950;Cl
5477	chrY	9929446	.	G	A	341.98	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=0.736;Cl
5478	chrY	9929908	.	C	G	82.67	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=2.17;Cli
5479	chrY	9929923	.	C	A	138.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.59;Cli
5480	chrY	9929929	.	G	A	132.70	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.75;Cli
5481	chrY	9929932	.	A	G	176.35	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.39;Cli
5482	chrY	9929935	.	C	T	171.27	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.546;Cl
5483	chrY	9929936	.	A	G	231.30	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.804;Cl
5484	chrY	9929945	.	C	G	248.92	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=0.804;Cl
5485	chrY	9929946	.	A	G	245.92	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=0.804;Cl
5486	chrY	9929952	.	G	A	310.85	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-2.740e-
5487	chrY	9929958	.	G	A	320.79	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.370;Cl
5488	chrY	9929969	.	A	C	48.63	PASS	AC=2;AF=0.029;AN=68;DP=982;FS=0.000;Inbre
5489	chrY	9929987	.	T	C	10270.15		my_snp_filter AC=31;AF=0.470;AN=66;Base
5490	chrY	9929998	.	G	T	2734.95	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=1.11;Cl
5491	chrY	9930003	.	C	T	150.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-6.330e-
5492	chrY	9930004	.	C	A	14419.30		my_snp_filter AC=32;AF=0.500;AN=64;Base
5493	chrY	9930008	.	G	A	247.95	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
5494	chrY	9930009	.	G	A	1598.99	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.248;C
5495	chrY	9930013	.	C	G	3028.78	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.053;C
5496	chrY	9930015	.	A	G	18153.63		my_snp_filter AC=33;AF=0.516;AN=64;Base
5497	chrY	9930025	.	A	G	21949.81		PASS AC=35;AF=0.530;AN=66;BaseQRankSum
5498	chrY	9930026	.	C	G	22571.71		PASS AC=35;AF=0.530;AN=66;BaseQRankSum
5499	chrY	9930039	.	G	A	2268.27	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=1.47;Cl
5500	chrY	9930046	.	G	A	1633.70	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.579;C
5501	chrY	9930048	.	G	A	461.21	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.321;Cl
5502	chrY	9930050	.	A	T,G	2307.14	PASS	AC=4,11;AF=0.059,0.162;AN=68;BaseQRankSum
5503	chrY	9930054	.	A	T	10242.16		PASS AC=27;AF=0.386;AN=70;BaseQRankSum
5504	chrY	9930055	.	A	C,G	10772.69		PASS AC=2,26;AF=0.029,0.371;AN=70;Base
5505	chrY	9930057	.	G	A,C	1500.10	PASS	AC=10,5;AF=0.143,0.071;AN=70;BaseQRankSum
5506	chrY	9930060	.	C	A	943.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.087e+
5507	chrY	9930079	.	C	A	8579.01	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.110;C
5508	chrY	9930095	.	C	T	2443.15	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.888;C
5509	chrY	9930096	.	G	A	676.86	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5510	chrY	9930097	.	G	A	679.97	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5511	chrY	9930105	.	G	C	1755.42	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-7.180e
5512	chrY	9930106	.	G	C,A	2911.90	PASS	AC=21,5;AF=0.300,0.071;AN=70;BaseQRankSum
5513	chrY	9930110	.	G	C	6658.30	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.799e
5514	chrY	9930111	.	G	T	83.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5515	chrY	9930114	.	C	A	511.10	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
5516	chrY	9930123	.	C	A	74.22	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5517	chrY	9930129	.	C	T,*	1869.38	PASS	AC=16,6;AF=0.229,0.086;AN=70;BaseQRankSum
5518	chrY	9930139	.	C	T,*	330.40	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQRankSum=
5519	chrY	9930146	.	C	A	4916.17	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.976e
5520	chrY	9930149	.	C	T	1064.47	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=1.23;Cl
5521	chrY	9930156	.	G	C	210.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.19;Cli
5522	chrY	9930160	.	A	G	11371.73		PASS AC=34;AF=0.567;AN=60;BaseQRankSum
5523	chrY	9930163	.	G	A	207.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.546e+
5524	chrY	9930165	.	A	C,G	7202.58	PASS	AC=9,12;AF=0.180,0.240;AN=50;BaseQRankSum
5525	chrY	9930166	.	G	A	931.95	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.441;Cl
5526	chrY	9930167	.	C	T	170.65	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=0.482;Cl
5527	chrY	9930169	.	G	T	9381.63	PASS	AC=31;AF=0.596;AN=52;BaseQRankSum=-5.400e
5528	chrY	9930171	.	G	A,T	301.63	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQRankSum=
5529	chrY	9930174	.	A	G	8321.99	my_snp_filter	AC=29;AF=0.580;AN=50;BaseQRankSum
5530	chrY	9930177	.	T	A	230.55	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.731;Cl
5531	chrY	9930182	.	G	T	485.17	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-7.310e
5532	chrY	9930192	.	T	G	4704.77	my_snp_filter	AC=10;AF=0.278;AN=36;BaseQRankSum
5533	chrY	9930193	.	C	T	964.13	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=-1.015e+
5534	chrY	9930196	.	G	T	34.30	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
5535	chrY	9930204	.	A	G	2916.61	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=0.028;Cl
5536	chrY	9930207	.	A	G	2022.97	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=0.708;Cl
5537	chrY	9930211	.	C	G	1607.78	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=-2.154e+
5538	chrY	9930222	.	T	C	773.69	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=-2.331e+
5539	chrY	9930224	.	C	G	1087.56	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=2.08;Cli
5540	chrY	9930237	.	G	C	1060.51	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQRankSum=
5541	chrY	9930240	.	C	T	53.05	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=2.33;Cli
5542	chrY	9930253	.	C	A	944.91	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQRankSum=
5543	chrY	9930258	.	G	G	650.20	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=1.93;Cli
5544	chrY	9930307	.	A	T	1709.98	my_snp_filter	AC=12;AF=0.182;AN=66;BaseQRankSum
5545	chrY	9930334	.	C	T	2315.83	my_snp_filter	AC=12;AF=0.207;AN=58;BaseQRankSum
5546	chrY	9930338	.	T	G	2326.74	my_snp_filter	AC=12;AF=0.200;AN=60;BaseQRankSum
5547	chrY	9930349	.	C	G	1989.79	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQRankSum
5548	chrY	9930372	.	C	T	1994.89	my_snp_filter	AC=10;AF=0.185;AN=54;BaseQRankSum

5549	chrY	9930380	.	A	G	1654.79	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQRankSum=
5550	chrY	9930387	.	A	G	1005.94	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=-1.187e+
5551	chrY	9930392	.	T	G	679.94	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=-1.423e+
5552	chrY	9930393	.	G	T	643	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=-1.736e+
5553	chrY	9930488	.	C	T	87	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=0.736;Cl
5554	chrY	9930490	.	A	T	65.65	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=0.736;Cl
5555	chrY	9930497	.	T	G	88.95	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=0.727;Cl
5556	chrY	9930537	.	C	A	1580.02	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=-7.360e
5557	chrY	9930540	.	G	A	592.01	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=0.237;Cl
5558	chrY	9930543	.	T	C	1793.68	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=-4.900e
5559	chrY	9930558	.	C	T	750.40	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=1.94;Cli
5560	chrY	9930569	.	C	T	91.20	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=0.743;Cl
5561	chrY	9930570	.	A	G	1486.42	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-2.901e+
5562	chrY	9930577	.	T	A,C	293.85	PASS	AC=2,3;AF=0.037,0.056;AN=54;BaseQRankSum=
5563	chrY	9930582	.	T	C	601.21	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=0.927;Cl
5564	chrY	9930605	.	T	C	1214.70	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=2.61;Cli
5565	chrY	9930607	.	G	A	64.11	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=0.370;Cl
5566	chrY	9930611	.	C	T	171.71	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=2.27;Cli
5567	chrY	9930626	.	C	T	270.78	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=0.040;Cl
5568	chrY	9930637	.	T	G	666.81	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=1.68;Cli
5569	chrY	9930644	.	C	A	583.14	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=0.795;Cl
5570	chrY	9930646	.	T	C	782.34	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=0.00;Cli
5571	chrY	9930650	.	C	A	49.43	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
5572	chrY	9930652	.	A	C	450.67	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=1.26;Cli
5573	chrY	9930654	.	C	A	49.53	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQRankSum=
5574	chrY	9930655	.	G	C	223.69	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=1.95;Cli
5575	chrY	9930713	.	C	G	66.04	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=1.29;Cli
5576	chrY	9930722	.	T	G	195.33	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=0.437;Cl
5577	chrY	9930723	.	C	G	195.97	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=-4.520e-
5578	chrY	9930730	.	A	C	198.69	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=0.710;Cl
5579	chrY	9930731	.	G	A	198.73	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=-9.840e-
5580	chrY	9930758	.	T	C	1722.96	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=1.87;Cli
5581	chrY	9930772	.	T	C	2208.94	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=1.37;Cli
5582	chrY	9930773	.	G	A	2207.04	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=-1.900e-
5583	chrY	9930775	.	C	A	2747.73	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=2.37;Cli
5584	chrY	9930777	.	A	C	2349.76	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=-2.383e+
5585	chrY	9930790	.	C	G	293.41	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=-3.770e-
5586	chrY	9930801	.	A	G	73.57	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
5587	chrY	9930805	.	G	A	296.18	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-1.490e+
5588	chrY	9930807	.	C	G	230.38	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=2.24;Cli
5589	chrY	9930818	.	C	T	6129.84	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=1.03;Cl
5590	chrY	9930823	.	C	T	5929.98	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum=1.03;Cl
5591	chrY	9930830	.	G	C	7106.47	PASS	AC=26;AF=0.419;AN=62;BaseQRankSum=1.23;Cl
5592	chrY	9930843	.	C	G,T	6076.62	PASS	AC=26,4;AF=0.406,0.063;AN=64;BaseQRankSum=
5593	chrY	9930851	.	A	G	1425.01	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=-7.310e
5594	chrY	9930860	.	A	C	717.40	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-3.370e
5595	chrY	9930871	.	C	T	711.68	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-1.991e+
5596	chrY	9930873	.	G	A	714.75	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-1.713e+
5597	chrY	9930875	.	A	C	4953.66	PASS	AC=22;AF=0.367;AN=60;BaseQRankSum=-1.067e
5598	chrY	9930899	.	T	C	3393.83	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-3.820e
5599	chrY	9930903	.	C	A	456.04	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.922;Cl
5600	chrY	9930909	.	C	T	1964.63	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=2.49;Cl
5601	chrY	9930915	.	A	G	38.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.668;Cl
5602	chrY	9930918	.	T	C	3807.30	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=0.529;C
5603	chrY	9930924	.	T	G	3248.54	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=-1.231e
5604	chrY	9930926	.	C	G,A	2702.42	PASS	AC=14,5;AF=0.206,0.074;AN=68;BaseQRankSum=
5605	chrY	9930932	.	C	T	1180.22	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.400e-
5606	chrY	9930933	.	C	G	64.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-4.440e-
5607	chrY	9930934	.	C	G,T	2345.65	PASS	AC=15,4;AF=0.227,0.061;AN=66;BaseQRankSum=
5608	chrY	9930940	.	C	T	659	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.720;Cl
5609	chrY	9930941	.	G	A	33.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
5610	chrY	9930955	.	A	C	275.52	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-4.230e-
5611	chrY	9930967	.	A	G	96.18	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-7.620e-
5612	chrY	9930978	.	C	T	83.27	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.751;Cl
5613	chrY	9931120	.	T	C	33.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.762;Cl
5614	chrY	9931142	.	G	T	7411.93	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum=
5615	chrY	9931146	.	A	G	3598.28	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5616	chrY	9931147	.	T	C	241.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.106e+
5617	chrY	9931150	.	T	A	3336.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5618	chrY	9931155	.	G	A	85.11	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
5619	chrY	9931162	.	G	A	4873.28	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
5620	chrY	9931171	.	T	C	128.52	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.56;Cli
5621	chrY	9931177	.	T	C	13736.88	my_snp_filter	AC=23;AF=0.338;AN=68;Base
5622	chrY	9931178	.	C	T	467.01	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.393e+
5623	chrY	9931187	.	A	G	183.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.720;Cl
5624	chrY	9931193	.	T	C	6743.80	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.220e

5625	chrY	9931194	.	A	G	3337.06	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.01;Cli
5626	chrY	9931201	.	G	C	5545.67	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=4.63;Cl
5627	chrY	9931209	.	T	C	25403.79		my_snp_filter AC=22;AF=0.314;AN=70;Base
5628	chrY	9931216	.	T	C	264.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.57;Cli
5629	chrY	9931224	.	T	C	7666.17	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-9.100e
5630	chrY	9931233	.	T	C	30601.77		my_snp_filter AC=20;AF=0.286;AN=70;Base
5631	chrY	9931259	.	G	A	39142.37		my_snp_filter AC=19;AF=0.279;AN=68;Base
5632	chrY	9931285	.	T	C	7487.91	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.055;C
5633	chrY	9931293	.	C	T	2505.13	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-8.000e-
5634	chrY	9931294	.	T	G	4722.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.688e+
5635	chrY	9931303	.	T	C	44677.35		PASS AC=26;AF=0.406;AN=64;BaseQRankSum
5636	chrY	9931316	.	T	C	12416.04		PASS AC=15;AF=0.221;AN=68;BaseQRankSum
5637	chrY	9931330	.	T	A	53517.29		PASS AC=29;AF=0.453;AN=64;BaseQRankSum
5638	chrY	9931339	.	T	A	4669.01	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-7.080e
5639	chrY	9931347	.	C	T	16814.85		PASS AC=16;AF=0.242;AN=66;BaseQRankSum
5640	chrY	9931357	.	G	A	2220.59	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=1.15;Cl
5641	chrY	9931365	.	T	C,*	11323.38		PASS AC=12,19;AF=0.182,0.288;AN=66;Bas
5642	chrY	9931378	.	A	G	15861.36		PASS AC=25;AF=0.357;AN=70;BaseQRankSum
5643	chrY	9931379	.	G	A	51944.17		PASS AC=32;AF=0.457;AN=70;BaseQRankSum
5644	chrY	9931380	.	T	C	1971.99	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
5645	chrY	9931405	.	C	T	350.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.963;Cl
5646	chrY	9931411	.	A	G	44682.56		PASS AC=31;AF=0.500;AN=62;BaseQRankSum
5647	chrY	9931413	.	C	T	308.52	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5648	chrY	9931428	.	C	T	74613.97		PASS AC=38;AF=0.543;AN=70;BaseQRankSum
5649	chrY	9931444	.	A	C	3598.81	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-8.640e
5650	chrY	9931448	.	G	A	3174.48	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.68;Cl
5651	chrY	9931461	.	C	G	1826.31	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.151e+
5652	chrY	9931467	.	T	A	21510.72		PASS AC=33;AF=0.471;AN=70;BaseQRankSum
5653	chrY	9931469	.	T	A	22745.72		PASS AC=33;AF=0.471;AN=70;BaseQRankSum
5654	chrY	9931470	.	C	T	119241.34		PASS AC=40;AF=0.571;AN=70;BaseQRankSum
5655	chrY	9931478	.	T	C	102791.72		PASS AC=35;AF=0.500;AN=70;BaseQRankSum
5656	chrY	9931484	.	C	T	80.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5657	chrY	9931494	.	C	G	61523.72		PASS AC=35;AF=0.500;AN=70;BaseQRankSum
5658	chrY	9931499	.	G	T	29414.66		PASS AC=33;AF=0.471;AN=70;BaseQRankSum
5659	chrY	9931505	.	T	G	4075.20	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum
5660	chrY	9931511	.	A	G	152.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5661	chrY	9931516	.	T	A	30148.81		PASS AC=33;AF=0.471;AN=70;BaseQRankSum
5662	chrY	9931518	.	A	C	6940.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.855;C
5663	chrY	9931519	.	C	T	7538.08	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.15;Cl
5664	chrY	9931520	.	T	A,C	2844.44	my_snp_filter	AC=13,3;AF=0.186,0.043;AN=70;Base
5665	chrY	9931521	.	T	G	6503.05	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.754e
5666	chrY	9931522	.	T	C	221.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5667	chrY	9931523	.	T	C	107.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5668	chrY	9931528	.	G	T	3929.83	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-7.390e
5669	chrY	9931533	.	A	G	5132.23	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.018e
5670	chrY	9931539	.	T	A	1606.26	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5671	chrY	9931548	.	G	A	141.95	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5672	chrY	9931550	.	A	C	12386.19		PASS AC=16;AF=0.229;AN=70;BaseQRankSum
5673	chrY	9931562	.	G	A	54.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5674	chrY	9931578	.	G	A	1004.23	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5675	chrY	9931580	.	T	C	135.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5676	chrY	9931581	.	C	T	285.67	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
5677	chrY	9931585	.	A	G	8638.19	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-6.590e
5678	chrY	9931598	.	T	G	23368.53		PASS AC=27;AF=0.386;AN=70;BaseQRankSum
5679	chrY	9931606	.	T	G	38390.38		my_snp_filter AC=29;AF=0.500;AN=58;Base
5680	chrY	9931608	.	T	A	37298.38		my_snp_filter AC=29;AF=0.500;AN=58;Base
5681	chrY	9931618	.	C	A	3407.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.070e-
5682	chrY	9931619	.	T	C	2712.69	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.09;Cli
5683	chrY	9931631	.	G	A	1316.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.274;Cl
5684	chrY	9931633	.	T	A	1301	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.050e+
5685	chrY	9931636	.	C	G	7959.40	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.453e
5686	chrY	9931640	.	G	T	9931.26	my_snp_filter	AC=14;AF=0.226;AN=62;BaseQRankSum
5687	chrY	9931650	.	C	T	6978.64	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQRankSum=
5688	chrY	9931661	.	T	G	425.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.023e+
5689	chrY	9931675	.	T	C	44.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.474;Cl
5690	chrY	9931926	.	T	C	184.53	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-4.450e-
5691	chrY	9931927	.	A	G	5276.33	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=-1.289e
5692	chrY	9931935	.	G	T	81.57	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
5693	chrY	9931938	.	C	T	3079.79	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-9.740e
5694	chrY	9931941	.	A	T	2018.84	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-4.310e-
5695	chrY	9931953	.	A	G	15482.55		PASS AC=14;AF=0.259;AN=54;BaseQRankSum
5696	chrY	9931962	.	T	C	505.39	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=0.804;Cl
5697	chrY	9931964	.	G	A	5008.02	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=-1.026e
5698	chrY	9931989	.	T	C	45.10	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-7.360e-
5699	chrY	9931991	.	A	T	5673.89	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum=1.22;Cl
5700	chrY	9931992	.	A	G	7516.29	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=-2.930e

5701	chrY	9931995	.	T	C,G	1682.27	PASS	AC=5,4;AF=0.086,0.069;AN=58;BaseQRankSum=
5702	chrY	9932001	.	A	G	7450.53	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=0.858;C
5703	chrY	9932008	.	T	C	160.81	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
5704	chrY	9932010	.	A	C	1414.35	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=1.49;Cli
5705	chrY	9932019	.	G	T	195.46	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQRankSum=
5706	chrY	9932029	.	G	A	6266.09	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=0.942;C
5707	chrY	9932049	.	C	T	4987.49	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=2.17;Cli
5708	chrY	9932078	.	G	C,*	2368.96	PASS	AC=6,3;AF=0.200,0.100;AN=30;BaseQRankSum=
5709	chrY	9932082	.	T	C	754.37	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=-7.000e-
5710	chrY	9932092	.	A	T	417.09	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=0.894;Cl
5711	chrY	9932094	.	A	T	373.24	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=-6.780e-
5712	chrY	9932098	.	C	G	792.58	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=1.73;Cli
5713	chrY	9932113	.	C	A	2725.98	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=0.073;Cl
5714	chrY	9932125	.	C	T	56.46	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=1.51;Cli
5715	chrY	9932131	.	A	T	2496.65	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=0.141;Cl
5716	chrY	9932136	.	A	T	2725.46	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=1.68;Cli
5717	chrY	9932158	.	A	C	186.19	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=1.20;Cli
5718	chrY	9932159	.	C	T	195.54	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=1.16;Cli
5719	chrY	9932160	.	A	C	2790.35	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-2.154e+
5720	chrY	9932163	.	G	A	236.79	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=2.25;Cli
5721	chrY	9932203	.	T	C	77.58	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-3.580e-
5722	chrY	9932225	.	T	G	118.57	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5723	chrY	9932231	.	G	A	141.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.81;Cli
5724	chrY	9932236	.	A	T	15838.99	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
5725	chrY	9932239	.	A	G	1953.81	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=-9.720e-
5726	chrY	9932240	.	C	T	174.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.700e-
5727	chrY	9932249	.	C	T,A	351.65	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
5728	chrY	9932250	.	T	C	78.71	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5729	chrY	9932259	.	C	T	1461.15	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-4.030e-
5730	chrY	9932261	.	G	C	79.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5731	chrY	9932263	.	A	T	56.88	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5732	chrY	9932296	.	G	A	1463.78	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.773e+
5733	chrY	9932301	.	A	T	1020.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.299e+
5734	chrY	9932303	.	A	T	957.11	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.690e+
5735	chrY	9932313	.	T	C	5642.51	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.698e
5736	chrY	9932323	.	T	C	56.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.865;Cl
5737	chrY	9932329	.	A	T	9161.84	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.041;C
5738	chrY	9932337	.	T	C	7606.84	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.566;C
5739	chrY	9932353	.	T	G	37.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5740	chrY	9932357	.	A	T	7008.21	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=0.572;C
5741	chrY	9932366	.	T	C	105.91	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5742	chrY	9932371	.	C	G	72.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5743	chrY	9932400	.	A	G	34.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5744	chrY	9932408	.	C	T	302.31	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5745	chrY	9932426	.	C	G	68.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.291;Cl
5746	chrY	9932436	.	C	G	371.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-6.230e-
5747	chrY	9932437	.	G	C	5123.86	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum=0.710;C
5748	chrY	9932444	.	G	A	1404.58	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.050;C
5749	chrY	9932450	.	C	A	4180.42	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum=0.735;C
5750	chrY	9932465	.	G	C	1162.44	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5751	chrY	9932471	.	C	T	5964.54	PASS	AC=20;AF=0.400;AN=50;BaseQRankSum=0.346;C
5752	chrY	9932478	.	T	C	2612.93	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.060;C
5753	chrY	9932483	.	A	C	164.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-6.560e-
5754	chrY	9932485	.	C	A	52.24	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5755	chrY	9932492	.	C	A	64.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.110e-
5756	chrY	9932495	.	G	A	892.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.399;Cl
5757	chrY	9932498	.	C	G	267.51	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
5758	chrY	9932504	.	T	G	35003.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
5759	chrY	9932513	.	G	A	1005.11	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
5760	chrY	9932515	.	A	T	832.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.471e+
5761	chrY	9932521	.	A	G	1010.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5762	chrY	9932522	.	G	C	79.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.466e+
5763	chrY	9932524	.	C	T	5656.46	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-8.740e-
5764	chrY	9932557	.	C	T	13567.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
5765	chrY	9932565	.	C	A	1228.98	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.06;Cli
5766	chrY	9932571	.	A	C,T	41817.20	PASS	AC=35,2;AF=0.500,0.029;AN=70;Base
5767	chrY	9932584	.	C	T	1293.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.032;Cl
5768	chrY	9932585	.	T	G	314.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5769	chrY	9932608	.	G	T	35.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5770	chrY	9932616	.	C	A	43.84	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5771	chrY	9932625	.	G	C	14827.84	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
5772	chrY	9932635	.	C	T	2490.97	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.67;Cl
5773	chrY	9932637	.	A	G	94.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.408e+
5774	chrY	9932647	.	C	T	106.02	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
5775	chrY	9932648	.	C	A	108.88	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
5776	chrY	9932651	.	G	T	111.70	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.14;Cli

5777	chrY	9932659	.	C	T	41.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.29;Cli
5778	chrY	9932662	.	A	G	712.44	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=2.74;Cli
5779	chrY	9932756	.	T	G	3148.81	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-1.800e
5780	chrY	9932760	.	G	T	622.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.38;Cli
5781	chrY	9932773	.	C	A	1511.60	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.621;Cl
5782	chrY	9932776	.	A	G	7304.59	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=-3.110e
5783	chrY	9932777	.	G	T	235.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.550e-
5784	chrY	9932790	.	C	T	42.52	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5785	chrY	9932796	.	G	A	890.85	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
5786	chrY	9932807	.	T	A	33.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5787	chrY	9932817	.	C	A	2961.52	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQRankSum
5788	chrY	9932829	.	C	T	1193.08	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
5789	chrY	9932839	.	A	G	97.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5790	chrY	9932853	.	G	T	1148.02	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5791	chrY	9932864	.	T	A	1727.51	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-7.050e
5792	chrY	9932882	.	G	C	1722.15	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.419;C
5793	chrY	9932886	.	T	A	383.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.134;Cl
5794	chrY	9932892	.	C	T	35038.57	PASS	AC=24;AF=0.429;AN=56;BaseQRankSum
5795	chrY	9932899	.	T	A	245.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5796	chrY	9932903	.	A	G	33883.23	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum
5797	chrY	9932905	.	T	C	505.84	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
5798	chrY	9932906	.	C	T	263.33	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
5799	chrY	9932923	.	G	C	1417.74	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.410e+
5800	chrY	9932936	.	T	C	2930.26	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-7.620e
5801	chrY	9932959	.	C	T,*	6017.55	PASS	AC=21,2;AF=0.300,0.029;AN=70;BaseQRankSum
5802	chrY	9932968	.	A	G	4494.21	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-8.320e
5803	chrY	9932971	.	G	T	9281.76	PASS	AC=25;AF=0.431;AN=58;BaseQRankSum=0.727;C
5804	chrY	9932977	.	C	G,T	2788.95	PASS	AC=3,16;AF=0.043,0.229;AN=70;BaseQRankSum
5805	chrY	9932985	.	T	C	3668.80	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.550;C
5806	chrY	9932988	.	A	C	4835.56	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=0.894;C
5807	chrY	9932994	.	A	T	41.42	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
5808	chrY	9933010	.	C	T	487.65	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=0.804;Cl
5809	chrY	9933011	.	A	G	477.28	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=0.804;Cl
5810	chrY	9933012	.	C	G	8542.59	PASS	AC=24;AF=0.632;AN=38;BaseQRankSum=1.12;Cl
5811	chrY	9933036	.	C	T	389.70	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQRankSum=
5812	chrY	9933043	.	T	C	1759.56	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=0.726;Cl
5813	chrY	9933046	.	A	G	1779.26	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=-1.138e+
5814	chrY	9933052	.	G	T,*	873.88	PASS	AC=2,5;AF=0.063,0.156;AN=32;BaseQRankSum=
5815	chrY	9933053	.	T	C,*	2463.23	PASS	AC=6,3;AF=0.188,0.094;AN=32;BaseQRankSum=
5816	chrY	9933068	.	G	A	9866.72	PASS	AC=14;AF=0.412;AN=34;BaseQRankSum=2.00;Cl
5817	chrY	9933087	.	T	C	461.24	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=-6.170e-
5818	chrY	9933091	.	T	C	10383.65	PASS	AC=13;AF=0.361;AN=36;BaseQRankSum
5819	chrY	9933094	.	C	G	425.45	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=-2.439e+
5820	chrY	9933108	.	G	A	557.46	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=-1.361e+
5821	chrY	9933113	.	T	G	277.66	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQRankSum=
5822	chrY	9933118	.	T	C	917.89	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQRankSum=
5823	chrY	9933122	.	G	T	9461.92	PASS	AC=19;AF=0.475;AN=40;BaseQRankSum=0.782;C
5824	chrY	9933123	.	G	C	512.97	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=0.438;Cl
5825	chrY	9933124	.	T	C	189.28	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQRankSum=
5826	chrY	9933126	.	G	A	50.05	PASS	AC=2;AF=0.042;AN=48;DP=999;FS=0.000;Inbre
5827	chrY	9933127	.	T	C	544.56	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=0.245;Cl
5828	chrY	9933138	.	T	C	255.27	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQRankSum=
5829	chrY	9933157	.	A	C	112.63	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
5830	chrY	9933158	.	C	A	112.38	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
5831	chrY	9933163	.	A	T	114.89	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=-6.740e-
5832	chrY	9933171	.	A	G	87.57	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
5833	chrY	9933172	.	A	G	87.46	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
5834	chrY	9933173	.	T	C	979.93	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=0.096;Cl
5835	chrY	9933181	.	G	C	3624.81	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=-6.730e-
5836	chrY	9933182	.	A	G	900.78	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.06;Cli
5837	chrY	9933192	.	G	T,*	5655.97	PASS	AC=9,2;AF=0.145,0.032;AN=62;BaseQRankSum=
5838	chrY	9933194	.	T	C	366.55	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQRankSum=
5839	chrY	9933199	.	G	A	1427.20	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=-1.215e+
5840	chrY	9933205	.	A	C	304.54	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
5841	chrY	9933227	.	A	T	1757.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.452;Cl
5842	chrY	9933234	.	G	C	1065.52	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.311e+
5843	chrY	9933284	.	T	A	1548.56	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-8.700e
5844	chrY	9933305	.	T	A	318.62	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.151;Cl
5845	chrY	9933313	.	C	A	1529.57	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.496;C
5846	chrY	9933342	.	C	T	1536.30	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5847	chrY	9933345	.	C	T	1535.99	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5848	chrY	9933348	.	C	T	175.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.20;Cli
5849	chrY	9933349	.	C	T	244.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.320;Cl
5850	chrY	9933359	.	T	C	326.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.736e+
5851	chrY	9933365	.	T	A	1592.46	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-9.610e-
5852	chrY	9933372	.	T	G	418.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.73;Cli

5853	chrY	9933388	.	T	C	547.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-3.730e-
5854	chrY	9933389	.	A	T	43.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5855	chrY	9933393	.	C	G	2562.79	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-5.820e
5856	chrY	9933400	.	G	A	39.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5857	chrY	9933407	.	T	C	172.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5858	chrY	9933419	.	T	G	197.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5859	chrY	9933423	.	G	A	837.36	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.147;Cl
5860	chrY	9933431	.	T	G	4033.23	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-1.679e
5861	chrY	9933432	.	T	G	150.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5862	chrY	9933440	.	C	T	74.71	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.00;Cli
5863	chrY	9933441	.	A	G	234.83	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-4.170e
5864	chrY	9933448	.	A	G	4170.26	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=-2.005e
5865	chrY	9933478	.	A	C	111.04	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
5866	chrY	9933484	.	G	T	672.89	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=0.433;Cl
5867	chrY	9933489	.	G	A	313.70	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-7.270e-
5868	chrY	9933496	.	T	G	55.86	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQRankSum=
5869	chrY	9933499	.	G	A	731.20	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=0.867;Cl
5870	chrY	9933501	.	T	G	110.77	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-2.619e+
5871	chrY	9933514	.	T	C	1183.29	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=0.239;Cl
5872	chrY	9933517	.	A	G	924.51	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=0.097;C
5873	chrY	9933525	.	T	C	1969.88	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=-4.440e
5874	chrY	9933527	.	A	G	1541.43	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.045;Cl
5875	chrY	9933547	.	T	C	5100.02	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=-7.290e
5876	chrY	9933548	.	G	A	5020.93	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=0.402;C
5877	chrY	9933553	.	G	T	3015.44	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.296;C
5878	chrY	9933562	.	T	C	2328.85	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-7.310e
5879	chrY	9933564	.	G	C	195.63	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5880	chrY	9933566	.	A	G	204.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.441;Cl
5881	chrY	9933586	.	G	A, T	2027	PASS	AC=17, 3;AF=0.250, 0.044;AN=68;BaseQRankSum
5882	chrY	9933599	.	T	G	260.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.276e+
5883	chrY	9933606	.	G	T	2246.34	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-8.680e
5884	chrY	9933624	.	G	C	1633.11	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.990e
5885	chrY	9933651	.	A	G	687.72	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.580e
5886	chrY	9933655	.	G	A	691.70	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.751;C
5887	chrY	9933673	.	C	T	55.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5888	chrY	9933715	.	A	T	671.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.06;Cli
5889	chrY	9933720	.	T	G	734.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.340e-
5890	chrY	9933760	.	T	A	552.49	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.322;Cl
5891	chrY	9933790	.	T	C	77.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.75;Cli
5892	chrY	9933797	.	C	T	77.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.500e-
5893	chrY	9933804	.	C	T	35.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.00;Cli
5894	chrY	9933831	.	G	A	2298.76	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQRankSum
5895	chrY	9933839	.	T	C	3247.46	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQRankSum
5896	chrY	9933854	.	C	T	42.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5897	chrY	9933856	.	G	T	174.71	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
5898	chrY	9933867	.	A	G	18672.79	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
5899	chrY	9933874	.	T	A	3779.89	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.900e
5900	chrY	9933891	.	T	C	88.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5901	chrY	9933910	.	G	A	360.17	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5902	chrY	9933920	.	G	A	34346.41	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5903	chrY	9933939	.	A	C	2398.04	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-8.500e
5904	chrY	9933969	.	T	G	69.18	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5905	chrY	9933972	.	G	A	8040.44	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=0.675;C
5906	chrY	9933981	.	T	C	2153.02	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=0.198;C
5907	chrY	9933998	.	T	A	5929.83	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=0.241;C
5908	chrY	9933999	.	G	A	721.09	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-8.980e-
5909	chrY	9934012	.	A	G	1566.46	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-7.420e
5910	chrY	9934038	.	C	G	5235.90	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum=0.727;C
5911	chrY	9934052	.	G	A	736.94	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=0.762;C
5912	chrY	9934057	.	C	A	77.81	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.620e-
5913	chrY	9934069	.	C	T	273.06	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.67;Cli
5914	chrY	9934093	.	C	G	3830.72	PASS	AC=30;AF=0.517;AN=58;BaseQRankSum=0.736;C
5915	chrY	9934119	.	G	T	36.82	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.720;Cl
5916	chrY	9934126	.	G	A	273.74	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=1.20;Cli
5917	chrY	9934137	.	G	A	297.55	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=0.451;Cl
5918	chrY	9934140	.	G	A	69.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.036;Cl
5919	chrY	9934141	.	C	T	69.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-9.410e-
5920	chrY	9934157	.	A	G	684.30	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-1.603e+
5921	chrY	9934158	.	T	C	65.70	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
5922	chrY	9934203	.	T	C	982.74	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.16;Cli
5923	chrY	9934207	.	G	A	70.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.15;Cli
5924	chrY	9934226	.	T	C	2642.65	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
5925	chrY	9934230	.	T	C	57.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.07;Cli
5926	chrY	9934233	.	G	C	523.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.21;Cli
5927	chrY	9934234	.	C	A	56.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.193;Cl
5928	chrY	9934235	.	A	T	242.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.365;Cl

5929	chrY	9934238	.	C	T	3150.30	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
5930	chrY	9934239	.	G	A	707.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=2.58;Cli
5931	chrY	9934253	.	G	A	43.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5932	chrY	9934255	.	G	T	913.25	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.389;C
5933	chrY	9934273	.	T	A	305.17	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
5934	chrY	9934274	.	A	C	394.65	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.167e+
5935	chrY	9934284	.	T	C	1344.04	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.678e
5936	chrY	9934285	.	G	A	48.38	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5937	chrY	9934286	.	A	T	33.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.380e+
5938	chrY	9934291	.	C	T	2693.82	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-7.200e
5939	chrY	9934293	.	T	A	2678.96	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-6.000e
5940	chrY	9934307	.	T	C	2251.99	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-5.990e
5941	chrY	9934312	.	G	A	5607.68	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-7.470e
5942	chrY	9934364	.	G	T	118.23	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5943	chrY	9934374	.	A	G	404	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.886e+
5944	chrY	9934555	.	A	T	309.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-8.100e+
5945	chrY	9934557	.	C	T	345.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.031e+
5946	chrY	9934567	.	G	A	533.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.105e+
5947	chrY	9934570	.	T	A	733.55	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
5948	chrY	9934571	.	C	G	558.55	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-2.065e+
5949	chrY	9934579	.	C	T	950.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
5950	chrY	9934611	.	C	T	703.26	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.731;Cl
5951	chrY	9934623	.	C	T	386.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.810e-
5952	chrY	9934629	.	C	T	467.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.434;Cl
5953	chrY	9934631	.	G	A	411.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.420e-
5954	chrY	9934639	.	G	A	590.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.00;Cli
5955	chrY	9934654	.	C	T	1610.83	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQRankSum=
5956	chrY	9934655	.	A	G	1340.83	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
5957	chrY	9934681	.	G	T	909.03	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
5958	chrY	9934685	.	T	C	36.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.380e+
5959	chrY	9934686	.	A	G	3318.51	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
5960	chrY	9934687	.	T	C	1189.89	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5961	chrY	9934691	.	G	C	212.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.17;Cli
5962	chrY	9934697	.	G	A	1215.82	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5963	chrY	9934711	.	T	C	633.27	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.217e+
5964	chrY	9934716	.	T	C	52.74	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
5965	chrY	9934720	.	G	A	619.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-9.710e-
5966	chrY	9934727	.	A	G	745.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.63;Cli
5967	chrY	9934735	.	C	T	6321.15	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.343;C
5968	chrY	9934736	.	C	T	35.25	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
5969	chrY	9934748	.	A	G,*	7102.67	PASS	AC=4,20;AF=0.057,0.286;AN=70;BaseQRankSum
5970	chrY	9934749	.	A	G	263.17	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5971	chrY	9934756	.	C	G	76.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5972	chrY	9934758	.	A	G	916.29	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.91;Cli
5973	chrY	9934760	.	G	T	7352.32	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.638e
5974	chrY	9934761	.	G	A	269.13	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
5975	chrY	9934768	.	G	C	60.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5976	chrY	9934772	.	G	T	995.87	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
5977	chrY	9934778	.	A	G	2512.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.50;Cli
5978	chrY	9934787	.	C	T	1545.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=3.07;Cli
5979	chrY	9934789	.	C	T	5135.66	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-1.970e
5980	chrY	9934790	.	G	A	51096.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5981	chrY	9934803	.	G	A	13345.50	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
5982	chrY	9934819	.	C	A	14730.10	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
5983	chrY	9934820	.	C	T	127663.94	PASS	AC=57;AF=0.814;AN=70;BaseQRankSum
5984	chrY	9934825	.	G	A	14286.40	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
5985	chrY	9934842	.	C	T	19035.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
5986	chrY	9934843	.	C	A	82.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
5987	chrY	9934845	.	T	A	495.76	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
5988	chrY	9934847	.	A	C	2251.68	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.626;Cl
5989	chrY	9934877	.	C	T	228.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
5990	chrY	9934897	.	G	A	51330.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
5991	chrY	9934902	.	G	T	5848.74	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.370;C
5992	chrY	9934917	.	A	G	5044.68	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-2.850e
5993	chrY	9934926	.	A	T	1333.96	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.280e-
5994	chrY	9934934	.	A	C	2575	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.050;C
5995	chrY	9934935	.	A	T	1456.80	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.260e-
5996	chrY	9934940	.	C	T	64.31	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
5997	chrY	9934955	.	C	T	25132.74	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
5998	chrY	9934956	.	T	G	25097.74	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
5999	chrY	9934957	.	C	T	69153.33	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6000	chrY	9934961	.	A	T	17293.31	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
6001	chrY	9934964	.	A	T	1623.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.14;Cli
6002	chrY	9934965	.	G	T	1608.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.40;Cli
6003	chrY	9934972	.	A	T	1706.54	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.142;C
6004	chrY	9934980	.	A	C	726.80	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum

6005	chrY	9934985	.	T	C	21600.46	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6006	chrY	9934990	.	A	G	3594.96	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-7.820e
6007	chrY	9935001	.	G	A	45251.90	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6008	chrY	9935004	.	T	G	1239.61	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-8.200e
6009	chrY	9935005	.	T	C	1220.96	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.670;C
6010	chrY	9935035	.	G	A	50.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6011	chrY	9935051	.	T	C	37107.27	my_snp_filter	AC=25;AF=0.403;AN=62;Base
6012	chrY	9935056	.	C	T	96.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6013	chrY	9935071	.	G	A	9688.12	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=4.07;Cl
6014	chrY	9935074	.	G	A	34906.74	my_snp_filter	AC=25;AF=0.368;AN=68;Base
6015	chrY	9935076	.	G	A	2667.91	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=4.81;Cli
6016	chrY	9935083	.	T	G	12682.09	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
6017	chrY	9935097	.	A	C	176.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6018	chrY	9935105	.	T	C	162.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6019	chrY	9935110	.	T	C	346.35	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.432e+
6020	chrY	9935117	.	G	A	5420.70	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.354e+
6021	chrY	9935119	.	C	T	649.35	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-8.730e-
6022	chrY	9935136	.	C	T	23447.23	my_snp_filter	AC=30;AF=0.429;AN=70;Base
6023	chrY	9935153	.	T	C	2932.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.414e+
6024	chrY	9935166	.	A	C	637.88	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.444e+
6025	chrY	9935176	.	C	T	9847.49	my_snp_filter	AC=14;AF=0.219;AN=64;BaseQRankSum
6026	chrY	9935190	.	G	C	8710.40	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
6027	chrY	9935192	.	A	G	1265.07	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-5.700e-
6028	chrY	9935198	.	C	T	265.02	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
6029	chrY	9935215	.	T	G	5766.31	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
6030	chrY	9935219	.	T	C	5382.57	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
6031	chrY	9935226	.	G	A	1635.44	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
6032	chrY	9935245	.	G	A	2204.91	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6033	chrY	9935299	.	C	A	2355.82	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6034	chrY	9935332	.	A	G	4062.78	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6035	chrY	9935336	.	A	G	4022.76	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6036	chrY	9935344	.	G	A	370.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-6.510e-
6037	chrY	9935347	.	T	A	2167.85	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6038	chrY	9935349	.	A	G	2171.02	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6039	chrY	9935360	.	C	A	745.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.715;Cl
6040	chrY	9935363	.	T	C	93.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.026e+
6041	chrY	9935369	.	T	C	97.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.026e+
6042	chrY	9935419	.	A	G	151.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.415;Cl
6043	chrY	9935422	.	A	G	154.66	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.616e+
6044	chrY	9935434	.	G	A	322.80	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-7.360e-
6045	chrY	9935630	.	A	C	71.30	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-1.495e+
6046	chrY	9935641	.	A	T	67.09	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.04;Cli
6047	chrY	9935882	.	G	T	149.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-4.680e-
6048	chrY	9935902	.	C	T	97.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.722;Cl
6049	chrY	9935903	.	A	G	194.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-2.208e+
6050	chrY	9935908	.	G	C	194.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.798e+
6051	chrY	9935929	.	T	A	123.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-3.510e-
6052	chrY	9935934	.	G	A	823.13	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.570e-
6053	chrY	9935953	.	A	G	478.52	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.620e-
6054	chrY	9935960	.	G	A	1014.16	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.352e+
6055	chrY	9935972	.	T	C	1046.54	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.733e+
6056	chrY	9935974	.	T	A	111.41	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6057	chrY	9935982	.	A	T	456.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.340e-
6058	chrY	9935992	.	A	G	1312.59	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=-7.360e-
6059	chrY	9936011	.	G	A	368.62	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.387e+
6060	chrY	9936014	.	T	A	1856.64	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=0.426;C
6061	chrY	9936015	.	T	C	235.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.231e+
6062	chrY	9936034	.	T	C	1334.76	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=-5.770e-
6063	chrY	9936042	.	T	C,G	1012.02	PASS	AC=6,3;AF=0.086,0.043;AN=70;BaseQRankSum=
6064	chrY	9936052	.	T	C	1242.46	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-1.853e+
6065	chrY	9936063	.	C	G	289.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.038;Cl
6066	chrY	9936067	.	G	A	292.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.240e+
6067	chrY	9936083	.	T	G	448.24	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.218;Cl
6068	chrY	9936095	.	T	A	245.69	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=0.493;Cl
6069	chrY	9936118	.	T	G	380.45	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.00;Cli
6070	chrY	9936142	.	G	A	853.32	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.00;Cli
6071	chrY	9936143	.	C	T	1983.63	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
6072	chrY	9936150	.	A	G	30.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
6073	chrY	9936159	.	A	G	1114.44	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
6074	chrY	9936163	.	C	T	33.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
6075	chrY	9936165	.	G	A	33.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
6076	chrY	9936177	.	C	T	32.63	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
6077	chrY	9936182	.	C	A	44.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6078	chrY	9936201	.	T	A	6599.86	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
6079	chrY	9936212	.	T	C	5675.87	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
6080	chrY	9936228	.	A	T	9924.55	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum

6081	chrY	9936236	.	C	T	140.84	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6082	chrY	9936239	.	C	T	1972.79	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-8.300e
6083	chrY	9936281	.	T	C	4294.23	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQRankSum
6084	chrY	9936297	.	C	G	29293.72	my_snp_filter	AC=35;AF=0.500;AN=70;Base
6085	chrY	9936300	.	G	A	29482.72	my_snp_filter	AC=35;AF=0.500;AN=70;Base
6086	chrY	9936329	.	C	A	12496.73	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
6087	chrY	9936335	.	C	T	60.43	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6088	chrY	9936338	.	T	A	14106.02	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6089	chrY	9936357	.	T	A	15011.97	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6090	chrY	9936369	.	T	G	1674.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.248;Cl
6091	chrY	9936370	.	T	A	1673.91	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-6.900e
6092	chrY	9936379	.	T	C	1723.86	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.735;Cl
6093	chrY	9936398	.	T	C,*	13795.99	PASS	AC=26,5;AF=0.371,0.071;AN=70;Base
6094	chrY	9936411	.	A	G	1429.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.298e+
6095	chrY	9936412	.	C	A	134.78	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6096	chrY	9936420	.	T	G	5870.97	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-1.336e
6097	chrY	9936432	.	G	A	12662.42	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6098	chrY	9936433	.	G	A	479.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6099	chrY	9936436	.	T	A	24532.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6100	chrY	9936443	.	T	C	18458.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6101	chrY	9936449	.	T	C,G	19418.73	PASS	AC=33,2;AF=0.471,0.029;AN=70;Base
6102	chrY	9936450	.	G	A	11660.92	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6103	chrY	9936488	.	A	C,T	20509.46	PASS	AC=26,2;AF=0.464,0.036;AN=56;Base
6104	chrY	9936490	.	A	G	426.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.175e+
6105	chrY	9936493	.	C	A	1370.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.24;Cli
6106	chrY	9936495	.	C	T	1451.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.398e+
6107	chrY	9936498	.	T	C	2174.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.091;Cl
6108	chrY	9936501	.	G	A	12084.63	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
6109	chrY	9936504	.	T	G	174.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.775e+
6110	chrY	9936508	.	T	C	11314.04	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
6111	chrY	9936510	.	T	A	2411.21	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.800e-
6112	chrY	9936512	.	C	T	1305.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.633;Cl
6113	chrY	9936519	.	T	C	5696.05	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=-1.991e
6114	chrY	9936520	.	G	C	613.03	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQRankSum
6115	chrY	9936521	.	T	C	4464.65	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=0.727;C
6116	chrY	9936522	.	G	A,C	6292.15	PASS	AC=15,4;AF=0.221,0.059;AN=68;BaseQRankSum
6117	chrY	9936524	.	G	A	7690.60	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=0.358;C
6118	chrY	9936525	.	A	G	10306.62	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
6119	chrY	9936527	.	C	T	2169.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-9.920e-
6120	chrY	9936539	.	T	C	10355.66	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum
6121	chrY	9936546	.	G	A	6581.44	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=2.51;Cl
6122	chrY	9936547	.	A	T	9977.21	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=0.382;C
6123	chrY	9936556	.	T	C	888.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-3.325e+
6124	chrY	9936563	.	C	T	4468.53	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6125	chrY	9936566	.	A	G	4513.84	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6126	chrY	9936569	.	A	G	295.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.323;Cl
6127	chrY	9936573	.	A	G	1040.52	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6128	chrY	9936586	.	A	G	407.79	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.179e
6129	chrY	9936615	.	A	T	200.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.00;Cli
6130	chrY	9936639	.	G	A	14284.38	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6131	chrY	9936647	.	A	G	15673.38	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
6132	chrY	9936655	.	G	T	30.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6133	chrY	9936664	.	T	A	5028.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.985;C
6134	chrY	9936665	.	C	G	70.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.09;Cli
6135	chrY	9936670	.	C	A	20066.23	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6136	chrY	9936682	.	G	C	449.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.24;Cli
6137	chrY	9936683	.	T	C	3389.74	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.29;Cl
6138	chrY	9936695	.	T	C	1667.22	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.43;Cli
6139	chrY	9936698	.	A	G	3491.30	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-2.290e
6140	chrY	9936706	.	G	A	19201.97	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6141	chrY	9936708	.	C	G	5232.24	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.533;C
6142	chrY	9936734	.	G	A	529.91	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6143	chrY	9936735	.	T	A	6367.33	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-4.740e
6144	chrY	9936740	.	G	C	1126.12	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.300e-
6145	chrY	9936749	.	T	A	38.97	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6146	chrY	9936754	.	G	A	6308.77	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=0.067;C
6147	chrY	9936760	.	C	A	1187.21	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.271e
6148	chrY	9936761	.	C	A	1200.88	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-3.470e
6149	chrY	9936797	.	C	T	2130.86	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-3.580e
6150	chrY	9936816	.	C	A	2297.08	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.480;C
6151	chrY	9936818	.	A	T,C	3571.44	PASS	AC=19,5;AF=0.317,0.083;AN=60;BaseQRankSum
6152	chrY	9936819	.	G	A	73.10	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.956;Cl
6153	chrY	9936825	.	T	C	231.16	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.884e+
6154	chrY	9936830	.	A	C	1045.37	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.804;Cl
6155	chrY	9936831	.	A	G	610.29	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-7.200e-
6156	chrY	9936850	.	T	G	156.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.779;Cl

6157	chrY	9936852	.	A	C	154.01	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.11;Cli
6158	chrY	9936969	.	G	A	214.45	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.92;Cli
6159	chrY	9936976	.	G	A	208.52	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.934;Cl
6160	chrY	9936977	.	G	C	180.57	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.95;Cli
6161	chrY	9936978	.	T	C	182.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=2.45;Cli
6162	chrY	9936979	.	G	T	470.28	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
6163	chrY	9936984	.	C	T	292.09	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-4.820e-
6164	chrY	9937003	.	T	C	327.58	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-5.640e-
6165	chrY	9937018	.	C	G	428.67	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-7.360e-
6166	chrY	9937022	.	G	A	428.93	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.618e+
6167	chrY	9937028	.	A	C	416.38	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-2.377e+
6168	chrY	9937029	.	G	C	1040.65	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.783;C
6169	chrY	9937032	.	T	C	2259.23	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-6.350e
6170	chrY	9937036	.	C	G,A	2384.16	PASS	AC=7,13;AF=0.103,0.191;AN=68;BaseQRankSum
6171	chrY	9937044	.	T	C	752.88	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-5.510e
6172	chrY	9937051	.	A	G	403.84	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.175e+
6173	chrY	9937060	.	A	C	302.19	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-2.478e+
6174	chrY	9937066	.	T	C	1491.46	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=-1.159e
6175	chrY	9937069	.	T	C	1481.03	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=-1.324e
6176	chrY	9937070	.	G	T	970.88	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=0.045;C
6177	chrY	9937075	.	A	G	902.45	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-1.599e
6178	chrY	9937081	.	C	T	891.21	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-8.250e
6179	chrY	9937093	.	A	G	3292.70	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-1.109e
6180	chrY	9937095	.	G	A	381.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-7.940e-
6181	chrY	9937097	.	A	C	3171.03	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.351;C
6182	chrY	9937130	.	A	G	554.53	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-9.250e
6183	chrY	9937280	.	C	A	38.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6184	chrY	9937284	.	T	C	885.57	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.517;C
6185	chrY	9937296	.	A	G	900.09	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-4.800e
6186	chrY	9937341	.	A	C	5711.38	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=-1.571e
6187	chrY	9937343	.	A	G	696.73	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.203e+
6188	chrY	9937352	.	T	G	6252.64	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-1.306e
6189	chrY	9937359	.	A	G	555.64	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.532e
6190	chrY	9937387	.	T	G	2840.65	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-7.680e
6191	chrY	9937409	.	T	G	1843.70	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-7.900e
6192	chrY	9937415	.	G	C	57.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.720e-
6193	chrY	9937419	.	G	T	2075.48	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.408;C
6194	chrY	9937433	.	G	T	3432.34	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
6195	chrY	9937435	.	A	G	116.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.959;Cl
6196	chrY	9937436	.	T	A	259.24	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6197	chrY	9937485	.	C	A,G	3532.94	my_snp_filter	AC=10,13;AF=0.143,0.186;AN=70;Bas
6198	chrY	9937503	.	C	T	48.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6199	chrY	9937510	.	C	T	769.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-3.660e-
6200	chrY	9937511	.	A	G	2142.35	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.267e
6201	chrY	9937555	.	C	T	73.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.53;Cli
6202	chrY	9937557	.	C	T	125.64	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.888;Cl
6203	chrY	9937568	.	C	T	444.73	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.847;Cl
6204	chrY	9937576	.	C	G,T	529.69	my_snp_filter	AC=1,6;AF=0.014,0.086;AN=70;BaseQ
6205	chrY	9937754	.	G	A	3970.24	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQRankSum
6206	chrY	9937765	.	T	G	31.74	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.00;Cli
6207	chrY	9937781	.	C	T	480.48	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.922;Cl
6208	chrY	9937791	.	C	T	545.14	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-7.420e
6209	chrY	9937796	.	A	G	3389.94	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.086e
6210	chrY	9937809	.	G	A	40.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-7.420e-
6211	chrY	9937844	.	A	T	57.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.380e+
6212	chrY	9937851	.	G	G	19216.07	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
6213	chrY	9937864	.	C	T	9232.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=4.78;Cl
6214	chrY	9937866	.	C	A	8908.26	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=4.67;Cl
6215	chrY	9937867	.	A	G	7337.41	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-7.940e
6216	chrY	9937872	.	T	C	18787.18	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
6217	chrY	9937879	.	C	A	5524.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.872;Cl
6218	chrY	9937889	.	G	A,C	10090.82	PASS	AC=15,7;AF=0.227,0.106;AN=66;Base
6219	chrY	9937898	.	C	T	5496.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.99;Cl
6220	chrY	9937911	.	T	A	5278.59	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.053;C
6221	chrY	9937922	.	T	C	6657.08	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=-1.164e
6222	chrY	9937929	.	A	G	50.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6223	chrY	9937951	.	A	G	268.49	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6224	chrY	9937953	.	G	A,T	16232.14	PASS	AC=25,24;AF=0.357,0.343;AN=70;Bas
6225	chrY	9937955	.	A	G	69.83	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6226	chrY	9937967	.	G	C	99.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6227	chrY	9937977	.	C	A	16640.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6228	chrY	9937985	.	A	G	17442.92	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6229	chrY	9937995	.	A	T	44850.12	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6230	chrY	9938017	.	C	T	572.27	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6231	chrY	9938018	.	C	G	8127.20	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=0.100;C
6232	chrY	9938027	.	G	A	2203.86	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum

6233	chrY	9938079	.	C	A	639.20	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.044e+
6234	chrY	9938080	.	A	G	646.51	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.594e+
6235	chrY	9938083	.	T	C	311.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.155;Cl
6236	chrY	9938089	.	C	A	611.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.866e+
6237	chrY	9938097	.	A	G	841.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.626e+
6238	chrY	9938099	.	A	T	290.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.076;Cl
6239	chrY	9938100	.	T	C	9532.13	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-1.880e
6240	chrY	9938101	.	G	C	7701.31	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=1.77;Cl
6241	chrY	9938113	.	G	C	267.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.60;Cli
6242	chrY	9938115	.	C	T	13071.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
6243	chrY	9938118	.	C	T	1706.60	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-8.670e
6244	chrY	9938121	.	T	C	2054.64	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.637e
6245	chrY	9938122	.	G	A	165.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.26;Cli
6246	chrY	9938134	.	C	T	12620.81	my_snp_filter	AC=32;AF=0.457;AN=70;Base
6247	chrY	9938155	.	C	A	4525.33	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQRankSum
6248	chrY	9938166	.	G	A	1488.68	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
6249	chrY	9938250	.	T	C	64.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6250	chrY	9938254	.	T	C	67.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6251	chrY	9938273	.	C	A	103.21	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.15;Cli
6252	chrY	9938274	.	T	G	104.47	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-9.450e-
6253	chrY	9938304	.	G	C	589.34	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6254	chrY	9938337	.	G	A	285.37	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.538;Cl
6255	chrY	9938349	.	C	G	78.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6256	chrY	9938367	.	C	T	122.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.83;Cli
6257	chrY	9938381	.	G	A	127.04	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.19;Cli
6258	chrY	9938390	.	A	G	84.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.734e+
6259	chrY	9938506	.	T	C	37.34	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6260	chrY	9938509	.	A	G	37.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6261	chrY	9938517	.	T	C	45.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.890e-
6262	chrY	9938522	.	T	A	35.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6263	chrY	9938527	.	T	A	95.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.000e+
6264	chrY	9938531	.	C	A	111.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.230e-
6265	chrY	9938545	.	C	T	1731.29	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.542e+
6266	chrY	9938551	.	C	T	534.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.66;Cli
6267	chrY	9938552	.	A	G	2098.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.519e+
6268	chrY	9938556	.	A	G	410.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.27;Cli
6269	chrY	9938562	.	C	A	82.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6270	chrY	9938564	.	A	G	3451.29	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.07;Cli
6271	chrY	9938567	.	C	G	138.96	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
6272	chrY	9938572	.	T	C	1612.48	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=2.33;Cli
6273	chrY	9938574	.	T	C	2780.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=2.58;Cli
6274	chrY	9938579	.	T	C	1463.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.63;Cli
6275	chrY	9938581	.	G	C	204.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6276	chrY	9938590	.	C	A	10114.63	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
6277	chrY	9938591	.	G	A	2821.21	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=2.20;Cl
6278	chrY	9938594	.	C	T	1579.74	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.123;Cl
6279	chrY	9938596	.	A	G	15372.98	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
6280	chrY	9938602	.	T	A	823.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.733;Cl
6281	chrY	9938606	.	C	T	7656.28	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=1.92;Cl
6282	chrY	9938613	.	C	T	6094.22	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.311e
6283	chrY	9938622	.	G	C	8688.81	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.952e
6284	chrY	9938632	.	T	G	162	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6285	chrY	9938638	.	C	T	9228.78	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.751;C
6286	chrY	9938640	.	G	A	168.78	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6287	chrY	9938644	.	C	A	1041.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.369;C
6288	chrY	9938652	.	A	G	10223.90	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
6289	chrY	9938664	.	A	G,*	1060.41	PASS	AC=4,8;AF=0.057,0.114;AN=70;BaseQRankSum
6290	chrY	9938665	.	C	G,*	1059.74	PASS	AC=4,8;AF=0.057,0.114;AN=70;BaseQRankSum
6291	chrY	9938671	.	G	A	1232.12	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.133e
6292	chrY	9938672	.	A	T	1232.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.509e
6293	chrY	9938682	.	G	T	1136.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.222;Cl
6294	chrY	9938686	.	C	T	321.44	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6295	chrY	9938707	.	A	G	8130.65	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQRankSum
6296	chrY	9938712	.	C	T	1129.77	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6297	chrY	9938713	.	G	A	2016.92	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=2.85;Cli
6298	chrY	9938714	.	T	C	8052.43	my_snp_filter	AC=16;AF=0.235;AN=68;BaseQRankSum
6299	chrY	9938715	.	G	A	5013.81	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=1.92;Cl
6300	chrY	9938718	.	T	C	8205.11	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQRankSum
6301	chrY	9938719	.	G	A	3382.90	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=1.93;Cli
6302	chrY	9938725	.	T	A	1707.86	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6303	chrY	9938726	.	G	A	2918.96	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.410;Cl
6304	chrY	9938727	.	T	G	546.87	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-9.330e-
6305	chrY	9938730	.	C	G	129.29	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
6306	chrY	9938731	.	C	A	6033.19	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
6307	chrY	9938734	.	A	T	47.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.07;Cli
6308	chrY	9938741	.	T	C	269.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.55;Cli

6309	chrY	9938743	.	C	T	325.25	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.294;C
6310	chrY	9938746	.	T	G	5857.54	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-3.650e
6311	chrY	9938748	.	C	T	447.66	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6312	chrY	9938752	.	C	T	4654.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-6.000e
6313	chrY	9938769	.	T	C	15182.31	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
6314	chrY	9938776	.	A	G	3934.37	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-1.271e
6315	chrY	9938784	.	C	T	183.77	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-3.480e-
6316	chrY	9938785	.	T	G	182.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.550e-
6317	chrY	9938790	.	C	A	26771.08	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum
6318	chrY	9938797	.	G	T	28413.36	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum
6319	chrY	9938811	.	G	A	89.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6320	chrY	9938826	.	T	C	8942.72	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.111;C
6321	chrY	9938837	.	G	A	38.15	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6322	chrY	9938851	.	A	T,C	53557.90	PASS	AC=34,11;AF=0.486,0.157;AN=70;Bas
6323	chrY	9938855	.	A	T	103.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.940e+
6324	chrY	9938868	.	T	A,*	10651.09	PASS	AC=27,1;AF=0.386,0.014;AN=70;Base
6325	chrY	9938875	.	C	T	33484.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6326	chrY	9938876	.	C	T	24989.86	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6327	chrY	9938878	.	C	T	3943.13	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-2.120e
6328	chrY	9938879	.	C	T	21563.04	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6329	chrY	9938883	.	C	A	15312.03	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
6330	chrY	9938884	.	C	A	15305.91	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
6331	chrY	9938894	.	C	G	4161.62	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.00;C
6332	chrY	9938895	.	C	T	4123.82	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-5.220e
6333	chrY	9938896	.	A	G	4046.96	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-3.200e
6334	chrY	9938898	.	G	A	29105.77	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6335	chrY	9938913	.	T	C,A	35053.76	PASS	AC=34,1;AF=0.486,0.014;AN=70;Base
6336	chrY	9938917	.	C	T	15747.79	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
6337	chrY	9938927	.	G	A	25397.28	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
6338	chrY	9938933	.	A	C	417.94	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6339	chrY	9938935	.	G	A	14894.69	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
6340	chrY	9938944	.	C	G	54416.21	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
6341	chrY	9938947	.	C	T	20207.06	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6342	chrY	9938948	.	G	T	78.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.320e-
6343	chrY	9938960	.	T	A	17064.67	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
6344	chrY	9938962	.	C	A,G	52157.69	PASS	AC=9,33;AF=0.129,0.471;AN=70;Base
6345	chrY	9938963	.	G	A	127.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6346	chrY	9938966	.	G	T	13537.26	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
6347	chrY	9938968	.	T	C	20186.24	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6348	chrY	9938969	.	G	A	2735.51	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.07;C
6349	chrY	9938978	.	A	G	47.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6350	chrY	9938979	.	G	A	2668.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.286;C
6351	chrY	9938980	.	G	A	113.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.730e-
6352	chrY	9938982	.	T	C	50953.76	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
6353	chrY	9938987	.	T	C	723.18	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.117;C
6354	chrY	9938993	.	G	T	12441.28	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
6355	chrY	9939001	.	G	A	5102.55	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.100e
6356	chrY	9939002	.	T	A,G	21413.92	PASS	AC=10,25;AF=0.143,0.357;AN=70;Bas
6357	chrY	9939006	.	G	C	122.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.919;C
6358	chrY	9939007	.	C	T	99.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6359	chrY	9939008	.	G	T,A	4750.12	PASS	AC=22,1;AF=0.314,0.014;AN=70;BaseQRankSum
6360	chrY	9939012	.	C	G	794.02	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6361	chrY	9939020	.	C	T	99.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6362	chrY	9939027	.	G	A	283.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6363	chrY	9939050	.	C	T	489.24	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6364	chrY	9939054	.	A	G	34.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6365	chrY	9939055	.	G	T	86.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.480e-
6366	chrY	9939057	.	T	C	728.74	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6367	chrY	9939063	.	G	A	10846.56	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6368	chrY	9939064	.	C	G	660.25	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6369	chrY	9939065	.	C	G	8673.34	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-6.920e
6370	chrY	9939078	.	A	G	1083.03	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.217e
6371	chrY	9939085	.	A	G	974.84	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-6.150e
6372	chrY	9939086	.	T	G	67402.01	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum
6373	chrY	9939087	.	C	G	67273.24	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum
6374	chrY	9939101	.	A	G	7575.61	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.136;C
6375	chrY	9939106	.	C	T,A	2456.80	PASS	AC=16,3;AF=0.229,0.043;AN=70;BaseQRankSum
6376	chrY	9939111	.	T	C	3273.90	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-5.920e
6377	chrY	9939116	.	G	A	48.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.670e-
6378	chrY	9939117	.	T	A	9848.86	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=0.352;C
6379	chrY	9939118	.	G	A	2870.16	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-7.520e
6380	chrY	9939119	.	G	A	53.32	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6381	chrY	9939127	.	A	T	4998.94	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-2.590e
6382	chrY	9939128	.	G	A	3102.35	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-2.080e
6383	chrY	9939130	.	A	G	64883.50	PASS	AC=31;AF=0.500;AN=62;BaseQRankSum
6384	chrY	9939136	.	A	C	72194.63	PASS	AC=33;AF=0.516;AN=64;BaseQRankSum

6385	chrY	9939159	.	G	A	3228.29	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.602;C
6386	chrY	9939169	.	C	A,T	1417.36	my_snp_filter	AC=11,7;AF=0.157,0.100;AN=70;Base
6387	chrY	9939182	.	G	T	398.99	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6388	chrY	9939183	.	A	G	408.50	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.500e-
6389	chrY	9939191	.	G	A	159.58	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6390	chrY	9939200	.	C	T	151.41	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6391	chrY	9939202	.	A	G	153.59	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6392	chrY	9939204	.	A	C	159.80	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6393	chrY	9939206	.	T	C	26398.10	PASS	AC=28;AF=0.467;AN=60;BaseQRankSum
6394	chrY	9939207	.	G	A	3708.78	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-9.070e
6395	chrY	9939208	.	G	A	264.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6396	chrY	9939214	.	G	A	2457.64	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.484;C
6397	chrY	9939215	.	C	G	148.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.377e+
6398	chrY	9939217	.	G	A	145.41	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6399	chrY	9939222	.	C	T	309.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.930e-
6400	chrY	9939223	.	C	T	3741.40	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.476e
6401	chrY	9939225	.	G	C	3260.87	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-5.187e
6402	chrY	9939227	.	G	C	145.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6403	chrY	9939232	.	T	C	21108.39	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum
6404	chrY	9939242	.	T	C	1666.21	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.561e
6405	chrY	9939260	.	G	A	8296.18	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum=
6406	chrY	9939265	.	G	C	926.70	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.32;Cli
6407	chrY	9939268	.	T	C,A	905.09	PASS	AC=6,1;AF=0.088,0.015;AN=68;BaseQRankSum=
6408	chrY	9939271	.	C	T	5283.53	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
6409	chrY	9939272	.	A	G	7897.20	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQRankSum
6410	chrY	9939278	.	G	A	56.93	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
6411	chrY	9939282	.	G	C	7479.38	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
6412	chrY	9939315	.	A	G	3582.89	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.680e
6413	chrY	9939318	.	C	T	213.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-8.290e-
6414	chrY	9939336	.	A	G	5458.97	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
6415	chrY	9939365	.	G	A	85.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.383;Cl
6416	chrY	9939366	.	C	A	7077.81	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
6417	chrY	9939378	.	A	G	11077.11	my_snp_filter	AC=60;AF=0.857;AN=70;Base
6418	chrY	9939388	.	A	G	8651.50	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-5.400e
6419	chrY	9939398	.	C	T	5668.95	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6420	chrY	9939408	.	G	A	3366.11	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-1.640e
6421	chrY	9939414	.	C	T	3441.59	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-8.690e
6422	chrY	9939425	.	T	C	8055.95	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-2.100e
6423	chrY	9939432	.	A	G	72.48	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6424	chrY	9939436	.	T	C	8178.33	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.727;C
6425	chrY	9939438	.	T	C	12086.47	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
6426	chrY	9939445	.	C	G	1333.78	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6427	chrY	9939447	.	C	T	12022.27	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
6428	chrY	9939453	.	C	T	977.94	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6429	chrY	9939454	.	T	C	1771.01	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-1.980e-
6430	chrY	9939455	.	G	T	13112	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=0.595;C
6431	chrY	9939470	.	T	C	16998.38	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum
6432	chrY	9939471	.	C	G	2151.57	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-1.257e
6433	chrY	9939475	.	C	G	577.43	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6434	chrY	9939476	.	G	A	911.61	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-8.770e
6435	chrY	9939499	.	A	G	47.58	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6436	chrY	9939506	.	G	A	29856.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6437	chrY	9939507	.	C	T	700.63	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6438	chrY	9939511	.	A	T	712.21	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6439	chrY	9939530	.	T	G	32614.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6440	chrY	9939538	.	T	A	284.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.661;Cl
6441	chrY	9939542	.	C	T	92.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6442	chrY	9939584	.	C	G	1323.64	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.94;Cli
6443	chrY	9939585	.	T	G	1932.43	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.238;Cl
6444	chrY	9939598	.	T	C	3571.62	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=0.322;C
6445	chrY	9939619	.	T	C	21390.05	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum
6446	chrY	9939620	.	T	C	2602.74	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.07;Cli
6447	chrY	9939623	.	G	C	2592.83	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.377e+
6448	chrY	9939631	.	A	T	2630.76	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.190e-
6449	chrY	9939634	.	C	G	2669.89	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6450	chrY	9939647	.	A	G	2308.61	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=0.224;Cl
6451	chrY	9939652	.	T	C	12952.67	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6452	chrY	9939699	.	A	T	264.02	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.550;Cl
6453	chrY	9939706	.	A	G	270.25	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.38;Cli
6454	chrY	9939711	.	C	T	5150.58	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=1.16;Cl
6455	chrY	9939713	.	T	C	16787.76	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum
6456	chrY	9939715	.	T	C,G,A	6680.71	PASS	AC=23,7,2;AF=0.338,0.103,0.029;AN=68;Base
6457	chrY	9939719	.	T	C	1888.95	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-6.600e
6458	chrY	9939732	.	A	G	21955.67	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
6459	chrY	9939743	.	A	T	182.31	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6460	chrY	9939758	.	C	G,T	761.73	PASS	AC=2,8;AF=0.029,0.114;AN=70;BaseQRankSum=

6461	chrY	9939780	.	C	T	326.88	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6462	chrY	9939789	.	C	A	24924.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
6463	chrY	9939798	.	T	A,*	9430.29	PASS	AC=30,2;AF=0.429,0.029;AN=70;BaseQRankSum=
6464	chrY	9939802	.	T	C	310.10	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6465	chrY	9939816	.	C	G	59839.16	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum=
6466	chrY	9939838	.	C	T	93.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6467	chrY	9939855	.	T	C	16260.63	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
6468	chrY	9939859	.	T	A	24529.28	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
6469	chrY	9939866	.	G	T	2772.21	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-8.300e
6470	chrY	9939869	.	G	A	44972.67	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
6471	chrY	9939878	.	G	A	20433.84	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
6472	chrY	9939879	.	G	A	56.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.48;Cli
6473	chrY	9939884	.	A	C	11369.15	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
6474	chrY	9939897	.	T	C	32.86	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.358;Cl
6475	chrY	9939898	.	T	G	275.09	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
6476	chrY	9939905	.	C	A	23082.21	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
6477	chrY	9939910	.	T	C	10163.04	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
6478	chrY	9939916	.	G	A	545.22	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.46;Cli
6479	chrY	9939934	.	T	C	7806.39	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=-8.120e
6480	chrY	9939942	.	A	G	354.93	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=0.900;Cl
6481	chrY	9939947	.	A	C	412.15	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQRankSum=
6482	chrY	9939949	.	G	T	6507.15	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=1.89;Cl
6483	chrY	9939960	.	T	A	5808.08	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=2.03;Cl
6484	chrY	9939964	.	G	A	5244.85	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=0.804;C
6485	chrY	9939979	.	A	G	2911.63	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
6486	chrY	9939981	.	T	C	2961.13	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
6487	chrY	9940003	.	A	G	317.44	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=1.25;Cli
6488	chrY	9940004	.	A	G	3069.81	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=-1.197e
6489	chrY	9940028	.	C	T	250.25	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=0.529;Cl
6490	chrY	9940033	.	T	C	1488.98	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=1.16;Cli
6491	chrY	9940038	.	T	C	4967.68	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
6492	chrY	9940045	.	T	C	1661.28	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.57;Cli
6493	chrY	9940052	.	C	A	6152	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
6494	chrY	9940071	.	C	T	8526.07	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.550;C
6495	chrY	9940086	.	A	T	730.34	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.290e
6496	chrY	9940094	.	A	T	4660	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.16;Cl
6497	chrY	9940106	.	T	C	5308.25	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-4.723e
6498	chrY	9940107	.	T	G	5476.06	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-3.510e
6499	chrY	9940123	.	G	A	5468.49	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.200e
6500	chrY	9940130	.	T	A	5381.19	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.311;C
6501	chrY	9940133	.	C	A	772.99	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
6502	chrY	9940159	.	G	A	10087.17	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
6503	chrY	9940167	.	T	C	27132.08	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
6504	chrY	9940177	.	C	T	26842.29	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
6505	chrY	9940183	.	G	T	5414.79	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.02;Cl
6506	chrY	9940186	.	A	G	421.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.067;Cl
6507	chrY	9940197	.	C	G	880.37	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6508	chrY	9940215	.	T	C	2638.62	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.107e
6509	chrY	9940258	.	G	C	963.14	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.155;C
6510	chrY	9940262	.	C	T	668.21	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.07;Cli
6511	chrY	9940263	.	C	G	6333.38	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-3.220e
6512	chrY	9940267	.	T	C	37.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.358;Cl
6513	chrY	9940270	.	T	C	247.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.573;Cl
6514	chrY	9940272	.	G	A	154.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6515	chrY	9940275	.	T	C	1026.64	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6516	chrY	9940278	.	C	T	6256.36	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
6517	chrY	9940279	.	T	G	3801.05	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.580e
6518	chrY	9940281	.	G	T	253.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.06;Cli
6519	chrY	9940284	.	C	T,G	4024.18	PASS	AC=10,3;AF=0.143,0.043;AN=70;BaseQRankSum=
6520	chrY	9940287	.	A	T	632.32	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.550;Cl
6521	chrY	9940294	.	G	A	515.58	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-9.220e-
6522	chrY	9940302	.	T	A	3820.30	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=0.791;C
6523	chrY	9940305	.	G	C	192.62	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.296;Cl
6524	chrY	9940307	.	A	G	192.71	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.358;Cl
6525	chrY	9940324	.	A	T	1213.07	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=1.81;Cli
6526	chrY	9940332	.	T	A	823.17	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=1.78;Cli
6527	chrY	9940406	.	C	T	154.81	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=0.572;Cl
6528	chrY	9940442	.	C	A	838.50	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
6529	chrY	9940443	.	A	T	981.87	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.036;C
6530	chrY	9940460	.	G	T	595.98	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.851;Cl
6531	chrY	9940472	.	A	G	7207.06	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.493;C
6532	chrY	9940483	.	A	G	13442.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
6533	chrY	9940484	.	G	A	357.55	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6534	chrY	9940489	.	C	T,A	35442.96	PASS	AC=27,33;AF=0.386,0.471;AN=70;Bas
6535	chrY	9940505	.	C	T	425.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.026e+
6536	chrY	9940521	.	C	T	20087.39	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=

6537	chrY	9940541	.	T	A	22057.67	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
6538	chrY	9940543	.	T	G	40180.38	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6539	chrY	9940551	.	G	A	22521.70	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
6540	chrY	9940553	.	A	G	285.57	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
6541	chrY	9940558	.	C	T	22711.97	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
6542	chrY	9940587	.	A	T	30093.61	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum
6543	chrY	9940592	.	T	A	37.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.361;C
6544	chrY	9940597	.	A	T	1333.40	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.691e+
6545	chrY	9940599	.	A	T	53333.52	PASS	AC=39;AF=0.574;AN=68;BaseQRankSum
6546	chrY	9940600	.	A	G	1230.95	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.890e
6547	chrY	9940602	.	A	T	549	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
6548	chrY	9940613	.	T	G	1371.57	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-7.960e-
6549	chrY	9940615	.	T	C	61517.18	PASS	AC=54;AF=0.794;AN=68;BaseQRankSum
6550	chrY	9940616	.	C	A	59032.51	PASS	AC=39;AF=0.629;AN=62;BaseQRankSum
6551	chrY	9940627	.	A	G	4533.68	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=1.04;C
6552	chrY	9940641	.	C	T	44433.20	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum
6553	chrY	9940647	.	A	G	22864.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6554	chrY	9940651	.	T	C	4193.39	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-3.410e
6555	chrY	9940657	.	A	G	96587.98	PASS	AC=45;AF=0.643;AN=70;BaseQRankSum
6556	chrY	9940668	.	C	A	2263.60	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.725;C
6557	chrY	9940671	.	C	A	158.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
6558	chrY	9940674	.	C	A	248.52	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
6559	chrY	9940681	.	G	A	10770.11	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
6560	chrY	9940684	.	C	T	346.75	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
6561	chrY	9940687	.	T	C	185.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
6562	chrY	9940691	.	A	G	731.71	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
6563	chrY	9940698	.	C	A	670.60	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
6564	chrY	9940701	.	A	G	215.04	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
6565	chrY	9940724	.	G	A	669.54	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
6566	chrY	9940731	.	G	C	31799.76	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6567	chrY	9940742	.	T	C	43068.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6568	chrY	9940743	.	A	G	11944.97	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
6569	chrY	9940744	.	G	A	43293.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6570	chrY	9940765	.	C	T	108.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
6571	chrY	9940790	.	T	C	9210.92	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-2.400e
6572	chrY	9940801	.	T	C	219.13	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
6573	chrY	9940821	.	C	G	90125.26	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum
6574	chrY	9940827	.	T	G	54.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
6575	chrY	9940833	.	A	G	834.60	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6576	chrY	9940850	.	A	G	3798.49	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.156e
6577	chrY	9940859	.	T	A	5354.64	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-2.240e
6578	chrY	9940872	.	C	A	42151.54	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
6579	chrY	9940888	.	T	C	7494.59	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.727;C
6580	chrY	9940896	.	T	A	5772.91	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-5.350e-
6581	chrY	9940906	.	C	T	37991.11	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6582	chrY	9940908	.	G	A	38164.04	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6583	chrY	9940915	.	G	A	34746.76	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6584	chrY	9940951	.	C	T	3560.56	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.771;C
6585	chrY	9940961	.	C	G	4269.39	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.835e
6586	chrY	9940967	.	T	C	3835.55	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.034e
6587	chrY	9940970	.	G	A	39655.06	PASS	AC=29;AF=0.483;AN=60;BaseQRankSum
6588	chrY	9940971	.	G	T	118.34	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.78;Cli
6589	chrY	9940975	.	C	T	868.44	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
6590	chrY	9940976	.	A	T,G	33311.97	PASS	AC=25,10;AF=0.431,0.172;AN=58;Bas
6591	chrY	9940997	.	C	G	2584.27	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.519;C
6592	chrY	9941007	.	A	G	3911.56	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.331;C
6593	chrY	9941008	.	G	A	3351.09	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.893;C
6594	chrY	9941012	.	A	C	27951.64	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6595	chrY	9941014	.	C	G	1124.24	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.028;C
6596	chrY	9941018	.	G	A	29506.64	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6597	chrY	9941033	.	C	T	3998.13	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=2.40;C
6598	chrY	9941034	.	A	G	43655.79	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6599	chrY	9941042	.	C	T	890.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.818;C
6600	chrY	9941043	.	A	G,T	2694.42	PASS	AC=6,5;AF=0.086,0.071;AN=70;BaseQRankSum
6601	chrY	9941044	.	T	C	7082.52	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.403;C
6602	chrY	9941057	.	G	T	303.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.56;Cli
6603	chrY	9941061	.	A	G	9556.51	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.150e
6604	chrY	9941072	.	A	G,T	7083.03	PASS	AC=16,9;AF=0.229,0.129;AN=70;BaseQRankSum
6605	chrY	9941073	.	G	C	3775.01	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.040e
6606	chrY	9941077	.	G	T	3701.12	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.350;C
6607	chrY	9941082	.	C	G	14466.11	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum
6608	chrY	9941083	.	T	C	3808.45	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.530;C
6609	chrY	9941089	.	A	G	16376.51	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
6610	chrY	9941096	.	T	C	78927.79	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6611	chrY	9941100	.	T	C	33310.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6612	chrY	9941103	.	T	C	1718.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.04;Cli

6613	chrY	9941115	.	A	G	25546.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6614	chrY	9941120	.	G	T	63249.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6615	chrY	9941122	.	G	C	2929.94	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.552e+
6616	chrY	9941137	.	G	A	8611.43	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-5.710e
6617	chrY	9941138	.	A	G	13359.80	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6618	chrY	9941139	.	C	G	33252.94	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6619	chrY	9941140	.	A	G	1153.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6620	chrY	9941154	.	T	C	20239.80	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6621	chrY	9941168	.	G	A	22440.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6622	chrY	9941183	.	G	A	1925.16	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
6623	chrY	9941190	.	G	A	1956.07	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
6624	chrY	9941204	.	C	A	175.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6625	chrY	9941213	.	A	G	9408.65	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-4.020e
6626	chrY	9941217	.	A	G	102456.39	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6627	chrY	9941230	.	G	T	86532.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6628	chrY	9941236	.	C	T	15491.47	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6629	chrY	9941247	.	T	G	1382.87	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6630	chrY	9941248	.	C	G	1389.84	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
6631	chrY	9941256	.	G	T	13561.75	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6632	chrY	9941264	.	T	C	29807.67	my_snp_filter	AC=34;AF=0.500;AN=68;Base
6633	chrY	9941265	.	G	A	54.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.540e-
6634	chrY	9941271	.	G	C	2037.76	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.987;C
6635	chrY	9941272	.	T	A	77.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.200e-
6636	chrY	9941274	.	A	C	1667.55	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=1.04;Cl
6637	chrY	9941293	.	G	T	211.79	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6638	chrY	9941298	.	T	C	7391.77	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6639	chrY	9941300	.	A	G	7363.98	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6640	chrY	9941304	.	G	A	1000.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.910e+
6641	chrY	9941332	.	G	A	630.94	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.564;Cl
6642	chrY	9941333	.	G	A	634	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.591;Cl
6643	chrY	9941347	.	C	T	78.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6644	chrY	9941348	.	C	T	78.95	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6645	chrY	9941367	.	A	C	31.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6646	chrY	9941429	.	C	T	2727.01	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=3.39;Cli
6647	chrY	9941433	.	T	C,A	2320.66	PASS	AC=8,1;AF=0.114,0.014;AN=70;BaseQRankSum=
6648	chrY	9941463	.	C	A	5677.44	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=1.19;Cl
6649	chrY	9941479	.	A	C	8104.85	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.037;C
6650	chrY	9941536	.	T	C	355.50	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6651	chrY	9941538	.	T	G	25734.82	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6652	chrY	9941551	.	T	A	3710.23	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-7.650e
6653	chrY	9941559	.	A	C	26792.54	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6654	chrY	9941576	.	A	T	53	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6655	chrY	9941579	.	G	A	42.69	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6656	chrY	9941580	.	T	C	5661.02	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-6.780e
6657	chrY	9941581	.	C	T,A	607.41	my_snp_filter	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
6658	chrY	9941589	.	C	T	28721.28	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
6659	chrY	9941591	.	T	C	4402.98	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.752e
6660	chrY	9941592	.	T	C	258.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6661	chrY	9941598	.	A	G	3874.14	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.92;Cli
6662	chrY	9941600	.	G	A	155.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6663	chrY	9941617	.	C	T	171.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6664	chrY	9941621	.	A	G	3431.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=3.18;Cli
6665	chrY	9941634	.	G	A	1003.88	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6666	chrY	9941635	.	T	C	1013.02	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6667	chrY	9941642	.	C	T	36598.55	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum
6668	chrY	9941645	.	A	G	1083.49	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6669	chrY	9941646	.	A	G	405.94	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.442e+
6670	chrY	9941652	.	T	G	95.27	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6671	chrY	9941667	.	C	T	4260.96	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=0.070;C
6672	chrY	9941682	.	T	C	353.63	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6673	chrY	9941684	.	T	A	61.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6674	chrY	9941694	.	G	T	12829.03	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6675	chrY	9941699	.	C	A	71.87	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6676	chrY	9941711	.	A	G	3154.37	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.540e
6677	chrY	9941715	.	A	G	3144.54	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.276e
6678	chrY	9941716	.	T	C	394.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.760e-
6679	chrY	9941718	.	G	A	18225.37	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6680	chrY	9941724	.	G	A	3095.42	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-3.210e
6681	chrY	9941725	.	G	A	426.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.322;Cl
6682	chrY	9941728	.	C	A	384.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.04;Cli
6683	chrY	9941730	.	G	C	269.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.566;Cl
6684	chrY	9941736	.	T	C	13562.73	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6685	chrY	9941750	.	A	G	7201.43	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.322;C
6686	chrY	9941753	.	T	C	678.53	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.550e
6687	chrY	9941755	.	C	G	11020.50	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
6688	chrY	9941758	.	A	G	10616.20	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum

6689	chrY	9941770	.	T	C	8729.01	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.107e
6690	chrY	9941771	.	G	T	908.47	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.38;Cli
6691	chrY	9941783	.	A	G	6714.97	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.801;C
6692	chrY	9941788	.	A	T	1723.22	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.480e
6693	chrY	9941802	.	G	T,*	6947.56	PASS	AC=23,3;AF=0.338,0.044;AN=68;BaseQRankSum
6694	chrY	9941822	.	G	C,A	31681.28	PASS	AC=31,10;AF=0.443,0.143;AN=70;Bas
6695	chrY	9941827	.	T	C	419.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-7.100e-
6696	chrY	9941829	.	A	G	30737.11	PASS	AC=25;AF=0.500;AN=50;BaseQRankSum
6697	chrY	9941832	.	C	T	48.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6698	chrY	9941837	.	C	G	3759.04	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-3.010e
6699	chrY	9941838	.	C	T	111.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.460e-
6700	chrY	9941848	.	A	G	8138.57	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-2.107e
6701	chrY	9941853	.	T	G	5110.53	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.009e
6702	chrY	9941854	.	T	C	8168.27	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.32;Cl
6703	chrY	9941860	.	T	A	8308.35	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-4.750e
6704	chrY	9941865	.	A	G	4082.89	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-7.420e
6705	chrY	9941869	.	C	T	8393.61	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.98;Cl
6706	chrY	9941879	.	T	C	37.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6707	chrY	9941884	.	T	G	1009.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.490e-
6708	chrY	9941885	.	C	G,A	10800.26	PASS	AC=10,7;AF=0.147,0.103;AN=68;Base
6709	chrY	9941887	.	T	C	927.94	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6710	chrY	9941888	.	A	G	857.30	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6711	chrY	9941907	.	A	G	1022.49	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.240e
6712	chrY	9941915	.	G	A	5372.16	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-9.620e
6713	chrY	9941917	.	A	G	7641.60	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-4.280e
6714	chrY	9941920	.	A	G	22911.79	PASS	AC=20;AF=0.526;AN=38;BaseQRankSum
6715	chrY	9941928	.	A	C	97.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.630;Cl
6716	chrY	9941939	.	C	G	164.13	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6717	chrY	9941944	.	T	A	107.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.43;Cli
6718	chrY	9941951	.	C	T	150.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.021e+
6719	chrY	9941952	.	C	A	131.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.153;Cl
6720	chrY	9941954	.	T	A	156.01	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=0.882;Cl
6721	chrY	9941955	.	T	A	2890.30	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=-5.020e-
6722	chrY	9941963	.	A	G	157.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.992;Cl
6723	chrY	9941973	.	C	T	874.81	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-3.720e-
6724	chrY	9941974	.	A	G	976.73	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=-5.720e-
6725	chrY	9941986	.	C	T	744.76	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=2.05;Cli
6726	chrY	9942005	.	T	G	34.18	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-4.800e-
6727	chrY	9942216	.	C	T	308.19	PASS	AC=2;AF=0.111;AN=18;DP=131;FS=0.000;MLEAC
6728	chrY	9942300	.	G	T	30.34	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
6729	chrY	9942320	.	T	G	190.90	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=0.00;Cli
6730	chrY	9942332	.	T	C	319	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-3.500e-
6731	chrY	9942333	.	G	A	316	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-1.550e+
6732	chrY	9942352	.	T	C	1026.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-1.510e-
6733	chrY	9942353	.	G	C	311.83	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-9.100e-
6734	chrY	9942357	.	C	T	407.26	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-7.140e-
6735	chrY	9942358	.	G	A	706.65	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=2.48;Cli
6736	chrY	9942360	.	C	T	294.89	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=0.505;Cl
6737	chrY	9942368	.	G	A	32.01	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
6738	chrY	9942373	.	A	C,T,G	1541.97	PASS	AC=1,3,2;AF=0.071,0.214,0.143;AN=14;BaseQ
6739	chrY	9942379	.	C	G	2176.51	PASS	AC=6;AF=0.500;AN=12;BaseQRankSum=-2.388e+
6740	chrY	9942383	.	A	T	337.59	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=0.203;Cl
6741	chrY	9942385	.	G	A	40.51	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
6742	chrY	9942391	.	T	C	306.22	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=-1.552e+
6743	chrY	9942396	.	A	G	292.05	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=-1.246e+
6744	chrY	9942408	.	G	A	778.24	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=-8.240e-
6745	chrY	9942417	.	C	T	44.68	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
6746	chrY	9942423	.	G	A	732.68	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=-9.460e-
6747	chrY	9942428	.	A	C	38.57	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
6748	chrY	9942430	.	A	T	827.02	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=-3.570e-
6749	chrY	9942433	.	A	G	741.20	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=-2.364e+
6750	chrY	9942445	.	A	G	827.52	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=0.158;Cl
6751	chrY	9942446	.	G	T	523.52	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=0.023;Cl
6752	chrY	9942452	.	C	T	47.59	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=0.749;Cl
6753	chrY	9942475	.	G	C	2506.03	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum=1.22;Cl
6754	chrY	9942477	.	T	C	400.63	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-8.530e-
6755	chrY	9942500	.	A	G	248.05	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=0.805;Cl
6756	chrY	9942515	.	G	A	442.74	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=0.869;Cl
6757	chrY	9942524	.	T	G	181.68	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=-1.246e+
6758	chrY	9942599	.	A	T	85.67	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=1.26;Cli
6759	chrY	9942602	.	C	T	2169.21	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=1.64;Cli
6760	chrY	9942603	.	T	G	296.99	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=-7.440e-
6761	chrY	9942637	.	C	T	1391.43	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQRankSum=
6762	chrY	9942658	.	A	G	1383.60	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQRankSum=
6763	chrY	9942665	.	A	G	357.81	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
6764	chrY	9942668	.	T	C	859.44	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=

6765	chrY	9942669	.	A	G	197.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.471e+
6766	chrY	9942671	.	C	G	173.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.100e-
6767	chrY	9942673	.	A	G	542.65	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6768	chrY	9942677	.	G	T	196.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.040e+
6769	chrY	9942684	.	T	A	3380.63	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.800e-
6770	chrY	9942698	.	A	G	809.41	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6771	chrY	9942704	.	C	T	297.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-8.500e-
6772	chrY	9942712	.	C	G	2043.22	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-3.110e
6773	chrY	9942726	.	A	G	795.82	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.336e+
6774	chrY	9942731	.	T	A	963.71	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.12;Cli
6775	chrY	9942758	.	G	C	37.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.736;Cl
6776	chrY	9942770	.	C	A,G	401.31	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQRankSum=
6777	chrY	9942774	.	G	T	183.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.420e-
6778	chrY	9942789	.	T	A	446.64	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.08;Cli
6779	chrY	9942802	.	T	C	645.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.780e-
6780	chrY	9942822	.	T	A	1325.92	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.240e+
6781	chrY	9942850	.	T	C	6362.88	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=0.755;Cl
6782	chrY	9942851	.	G	A	6376.88	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=0.108;Cl
6783	chrY	9942876	.	T	G	784.31	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQRankSum=
6784	chrY	9942899	.	A	C	1799.99	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQRankSum=
6785	chrY	9942922	.	C	A	1688.75	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
6786	chrY	9942949	.	T	A	1121.58	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
6787	chrY	9942955	.	C	T	516.65	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.777;Cl
6788	chrY	9942979	.	C	T	815.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.20;Cli
6789	chrY	9942985	.	C	T	475.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.00;Cli
6790	chrY	9942986	.	A	G	473.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.95;Cli
6791	chrY	9942987	.	C	A	409.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.75;Cli
6792	chrY	9942990	.	A	G	279.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.778;Cl
6793	chrY	9943004	.	A	G	363.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.441;Cl
6794	chrY	9943009	.	G	A	368.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.140;Cl
6795	chrY	9943020	.	A	G	671.13	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.529;C
6796	chrY	9943046	.	G	T	160.38	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6797	chrY	9943059	.	T	C	5866.96	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-1.099e
6798	chrY	9943072	.	G	C	6299.88	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.168;C
6799	chrY	9943104	.	C	T	6288.16	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-5.300e
6800	chrY	9943132	.	C	T	5079.37	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.181;C
6801	chrY	9943135	.	A	G	3552.68	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-7.200e
6802	chrY	9943144	.	T	A	2886.13	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=0.204;C
6803	chrY	9943151	.	C	G	79.08	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-9.100e-
6804	chrY	9943152	.	C	G	78.93	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.691;Cl
6805	chrY	9943166	.	T	A	804.78	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-2.500e
6806	chrY	9943201	.	G	A	2158.34	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQRankSum=
6807	chrY	9943212	.	C	T	2119.83	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQRankSum=
6808	chrY	9943259	.	C	A	425.38	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=1.64;Cli
6809	chrY	9943263	.	T	G	284.57	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-2.117e+
6810	chrY	9943266	.	A	C	216.04	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
6811	chrY	9943288	.	G	A	36.81	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
6812	chrY	9943294	.	C	T	49.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-4.670e-
6813	chrY	9943299	.	C	A	103.20	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.345e+
6814	chrY	9943359	.	G	A	70.97	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.495e+
6815	chrY	9943364	.	A	C	72.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.495e+
6816	chrY	9943456	.	C	T	618.05	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6817	chrY	9943471	.	A	T	3978.60	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
6818	chrY	9943475	.	T	C	4466.62	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQRankSum=
6819	chrY	9943488	.	C	T	10731.16	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQRankSum=
6820	chrY	9943489	.	C	G	10789.45	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQRankSum=
6821	chrY	9943512	.	G	A	19496.99	my_snp_filter	AC=30;AF=0.469;AN=64;BaseQRankSum=
6822	chrY	9943530	.	T	C	28425.76	my_snp_filter	AC=32;AF=0.516;AN=62;BaseQRankSum=
6823	chrY	9943532	.	G	C	6054.03	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=-1.045e
6824	chrY	9943538	.	G	T	185.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6825	chrY	9943539	.	G	C	37.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
6826	chrY	9943540	.	T	G	31367.71	my_snp_filter	AC=32;AF=0.516;AN=62;BaseQRankSum=
6827	chrY	9943545	.	G	A	153.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.620e-
6828	chrY	9943551	.	G	A	109.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6829	chrY	9943563	.	G	C	3864.71	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
6830	chrY	9943573	.	A	T	3487.53	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6831	chrY	9943574	.	A	C	403.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-5.340e-
6832	chrY	9943584	.	C	T	9309.70	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=-1.458e
6833	chrY	9943585	.	T	C	7787.40	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=-2.430e
6834	chrY	9943589	.	G	A	7953.78	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=-1.004e
6835	chrY	9943600	.	G	C	4179.28	my_snp_filter	AC=10;AF=0.167;AN=60;BaseQRankSum=
6836	chrY	9943607	.	T	C	1019.46	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-3.640e
6837	chrY	9943608	.	A	G	1055.48	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.700e-
6838	chrY	9943620	.	A	G	9251.24	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-2.282e
6839	chrY	9943622	.	C	G	6904.23	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.740e-
6840	chrY	9943626	.	A	T	7177.60	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=

6841	chrY	9943632	.	A	C	29219.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6842	chrY	9943633	.	G	A	11236.64	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6843	chrY	9943642	.	G	T	1021.86	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-5.200e
6844	chrY	9943649	.	G	A	33105.74	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6845	chrY	9943650	.	G	A	1973.79	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.196;C
6846	chrY	9943655	.	C	A	66.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6847	chrY	9943657	.	T	G	66.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6848	chrY	9943664	.	C	A	4496.09	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.852;C
6849	chrY	9943666	.	G	T	1532.11	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.401;C
6850	chrY	9943670	.	A	G	1916.64	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.46;C1
6851	chrY	9943671	.	G	A	4747.26	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-2.050e
6852	chrY	9943692	.	T	C	270.47	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6853	chrY	9943699	.	G	T	11082.01	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
6854	chrY	9943700	.	T	A	324.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.318;C1
6855	chrY	9943708	.	C	T	13794.74	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6856	chrY	9943716	.	G	A	13131.77	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
6857	chrY	9943723	.	G	A	9790.05	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.934;C
6858	chrY	9943724	.	C	A	1293.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.150e-
6859	chrY	9943729	.	G	T	31085.74	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6860	chrY	9943740	.	G	C	10227.48	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
6861	chrY	9943748	.	A	G	80976.94	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6862	chrY	9943751	.	T	A	1418.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.236;C1
6863	chrY	9943753	.	G	A	32512.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6864	chrY	9943754	.	G	A	18050.77	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6865	chrY	9943768	.	G	A	538.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.170e-
6866	chrY	9943771	.	G	A	32992.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6867	chrY	9943779	.	T	A	13018.70	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
6868	chrY	9943796	.	C	T	12554.74	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
6869	chrY	9943801	.	A	C	41372.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
6870	chrY	9943804	.	C	G	109.30	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.00;Cli
6871	chrY	9943829	.	C	A	580.65	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6872	chrY	9943830	.	A	T	576.02	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
6873	chrY	9943831	.	C	A	2020.78	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.747;C1
6874	chrY	9943838	.	G	A	594.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6875	chrY	9943846	.	A	T	74832.13	PASS	AC=35;AF=0.530;AN=66;BaseQRankSum
6876	chrY	9943853	.	T	G	386.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6877	chrY	9943866	.	G	A,C	68639.76	PASS	AC=27,11;AF=0.409,0.167;AN=66;Bas
6878	chrY	9943876	.	C	T	25505.06	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
6879	chrY	9943878	.	G	A	22690.34	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
6880	chrY	9943880	.	A	G	333.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6881	chrY	9943888	.	A	G,T,*	41333.62	PASS	AC=25,12,1;AF=0.379,0.182,0.015;A
6882	chrY	9943890	.	A	G,*	7736.30	PASS	AC=4,5;AF=0.061,0.076;AN=66;BaseQRankSum=
6883	chrY	9943910	.	G	A,*	4828.82	PASS	AC=4,6;AF=0.057,0.086;AN=70;BaseQRankSum=
6884	chrY	9943921	.	C	T	22448.13	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6885	chrY	9943925	.	G	A,*	8911.59	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQRankSum=
6886	chrY	9943946	.	C	A,*	6736.57	PASS	AC=18,3;AF=0.257,0.043;AN=70;BaseQRankSum=
6887	chrY	9943958	.	T	C,*	19986.68	PASS	AC=17,12;AF=0.243,0.171;AN=70;Bas
6888	chrY	9943965	.	A	G	397.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6889	chrY	9943966	.	G	C	3800.93	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
6890	chrY	9943975	.	A	T	3122.08	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6891	chrY	9943978	.	G	A	660.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6892	chrY	9943997	.	C	A	3875.80	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum
6893	chrY	9943999	.	A	T	345.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6894	chrY	9944010	.	G	A	42807.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6895	chrY	9944021	.	C	T	265.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
6896	chrY	9944024	.	T	C	51556.53	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6897	chrY	9944027	.	C	T	167.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
6898	chrY	9944032	.	G	A	18530.54	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
6899	chrY	9944034	.	T	G	58241.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6900	chrY	9944043	.	G	A	10395.63	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
6901	chrY	9944052	.	C	T	44390.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6902	chrY	9944061	.	T	G	42530.17	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
6903	chrY	9944063	.	G	T	13295.68	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
6904	chrY	9944066	.	A	G	51736.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6905	chrY	9944077	.	C	T	3942.59	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum
6906	chrY	9944086	.	G	C	3064.02	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6907	chrY	9944098	.	G	T	2495.03	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6908	chrY	9944102	.	A	G	8523.98	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-9.100e
6909	chrY	9944104	.	A	T	226.53	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6910	chrY	9944112	.	G	A	1487.54	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6911	chrY	9944113	.	A	T	13842.11	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
6912	chrY	9944114	.	C	A	2671.63	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.271;C
6913	chrY	9944116	.	T	A	13327.18	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
6914	chrY	9944120	.	C	T	17603.14	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
6915	chrY	9944121	.	A	G	52594.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6916	chrY	9944126	.	A	G	42.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=

6917	chrY	9944127	.	C	A	4365.61	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-1.900e
6918	chrY	9944128	.	A	C	36012.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6919	chrY	9944132	.	T	G	1070.19	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
6920	chrY	9944134	.	T	G	2900	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQRankSum
6921	chrY	9944135	.	G	A	6144.54	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-4.110e
6922	chrY	9944145	.	C	G	3035.10	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum
6923	chrY	9944146	.	C	A	3007.27	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.12;Cl
6924	chrY	9944147	.	A	G	37022.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
6925	chrY	9944161	.	C	A	119.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
6926	chrY	9944162	.	A	G	1029.51	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
6927	chrY	9944168	.	C	T	1554.86	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=1.56;Cl
6928	chrY	9944169	.	A	G	49846.56	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
6929	chrY	9944186	.	G	A	619.87	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
6930	chrY	9944199	.	G	A	4785.99	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.100;C
6931	chrY	9944200	.	G	A	1855.96	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-1.027e
6932	chrY	9944214	.	A	G	22091.52	my_snp_filter	AC=26;AF=0.406;AN=64;Base
6933	chrY	9944218	.	C	T	21329.28	my_snp_filter	AC=26;AF=0.382;AN=68;Base
6934	chrY	9944224	.	C	G,A	14811.52	my_snp_filter	AC=3,16;AF=0.045,0.242;AN
6935	chrY	9944225	.	C	T	288.75	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
6936	chrY	9944232	.	T	G	630.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.284;Cl
6937	chrY	9944235	.	G	A	648.33	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.931;Cl
6938	chrY	9944244	.	T	C	10669.76	my_snp_filter	AC=10;AF=0.143;AN=70;Base
6939	chrY	9944250	.	T	C	9738.66	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
6940	chrY	9944254	.	G	A	2510.78	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.560e-
6941	chrY	9944271	.	A	T	3812.10	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.641;Cl
6942	chrY	9944276	.	C	A	7253.91	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.78;Cl
6943	chrY	9944289	.	C	G	2641.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.828e+
6944	chrY	9944290	.	C	G	665.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-3.218e+
6945	chrY	9944294	.	T	G	13908.49	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6946	chrY	9944302	.	T	G	13229.89	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6947	chrY	9944310	.	G	A	621.78	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
6948	chrY	9944331	.	T	C	16926.31	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6949	chrY	9944334	.	C	A	892.56	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6950	chrY	9944339	.	G	T	102.54	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6951	chrY	9944340	.	A	G	16925.38	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6952	chrY	9944342	.	C	T	895.72	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6953	chrY	9944346	.	T	G	102.41	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6954	chrY	9944349	.	T	C	889.82	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
6955	chrY	9944363	.	A	G	15117.51	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
6956	chrY	9944382	.	C	A	2502.69	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.980e-
6957	chrY	9944387	.	C	A	16998.67	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6958	chrY	9944391	.	G	C	1713.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.713e+
6959	chrY	9944395	.	A	G	16888.18	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
6960	chrY	9944396	.	A	G	521.87	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6961	chrY	9944410	.	C	T	41.63	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
6962	chrY	9944425	.	A	T	75.83	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
6963	chrY	9944438	.	T	A	136.18	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.00;Cli
6964	chrY	9944445	.	G	A	102.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.26;Cli
6965	chrY	9944459	.	A	C	1316.76	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQRankSum=
6966	chrY	9944477	.	T	C	977.38	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-4.360e-
6967	chrY	9944492	.	C	G	857.47	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.411e+
6968	chrY	9944496	.	C	T	686.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.00;Cli
6969	chrY	9944502	.	A	G	12965.90	my_snp_filter	AC=16;AF=0.258;AN=62;Base
6970	chrY	9944517	.	C	A	157.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.091;Cl
6971	chrY	9944521	.	A	C,T	19110.69	my_snp_filter	AC=21,2;AF=0.389,0.037;AN
6972	chrY	9944527	.	G	T	191.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-8.300e-
6973	chrY	9944533	.	T	G	23226.25	my_snp_filter	AC=25;AF=0.481;AN=52;Base
6974	chrY	9944537	.	A	C,T	22667.15	my_snp_filter	AC=23,2;AF=0.442,0.038;AN
6975	chrY	9944541	.	C	T	344.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.459;Cl
6976	chrY	9944559	.	C	T,A	6385.33	PASS	AC=9,4;AF=0.129,0.057;AN=70;BaseQRankSum=
6977	chrY	9944561	.	C	A	4235.27	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=3.88;Cl
6978	chrY	9944564	.	A	T	14555.39	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6979	chrY	9944566	.	C	A	1352.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-2.720e-
6980	chrY	9944567	.	T	C	1365.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-3.070e+
6981	chrY	9944573	.	G	T,A	18248.54	PASS	AC=5,30;AF=0.071,0.429;AN=70;Base
6982	chrY	9944582	.	C	T	17623.24	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
6983	chrY	9944583	.	C	A	10989.56	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
6984	chrY	9944586	.	T	A	221.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
6985	chrY	9944596	.	A	T	772.26	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.040e
6986	chrY	9944603	.	G	C	3849.10	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.445e+
6987	chrY	9944613	.	T	G	421.65	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.790e-
6988	chrY	9944628	.	G	A	1369.08	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.580e
6989	chrY	9944639	.	G	C	9207.20	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=-1.050e
6990	chrY	9944650	.	C	T	855.66	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
6991	chrY	9944654	.	G	T	892.12	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
6992	chrY	9944655	.	C	A	813.73	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum

6993	chrY	9944656	.	A	G	89068.83	PASS	AC=56;AF=0.800;AN=70;BaseQRankSum
6994	chrY	9944669	.	C	A	3354.23	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQRankSum
6995	chrY	9944685	.	T	A	74.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
6996	chrY	9944691	.	C	T	571.65	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum
6997	chrY	9944722	.	A	C	2293.33	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
6998	chrY	9944736	.	C	T	147.60	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
6999	chrY	9944738	.	C	A	21842.89	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
7000	chrY	9944740	.	G	A	123968.31	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum
7001	chrY	9944749	.	T	C	21468.21	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7002	chrY	9944766	.	G	C	29348.13	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
7003	chrY	9944768	.	A	C	224.14	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
7004	chrY	9944773	.	A	T	29017.03	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
7005	chrY	9944779	.	A	C	83634.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
7006	chrY	9944789	.	A	G	13826.12	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
7007	chrY	9944790	.	G	T	13742.55	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
7008	chrY	9944792	.	C	A	87274.68	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum
7009	chrY	9944793	.	A	T	24627.18	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum
7010	chrY	9944795	.	T	G	14262.51	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7011	chrY	9944800	.	G	T,A	21032.24	PASS	AC=23,4;AF=0.329,0.057;AN=70;Base
7012	chrY	9944810	.	A	T	14671.80	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
7013	chrY	9944813	.	G	T	105.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.131e+
7014	chrY	9944815	.	C	T	12659.86	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
7015	chrY	9944817	.	C	T	26241.68	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7016	chrY	9944820	.	C	T	12450.68	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
7017	chrY	9944830	.	C	T	15245.53	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
7018	chrY	9944832	.	A	C	5296.70	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-9.410e
7019	chrY	9944833	.	G	C	1459.38	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.00;Cli
7020	chrY	9944843	.	C	T	1356.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.445;Cl
7021	chrY	9944849	.	G	A	9295.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.34;Cli
7022	chrY	9944855	.	C	T	14976.20	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
7023	chrY	9944862	.	T	C,A	63136.09	PASS	AC=28,13;AF=0.400,0.186;AN=70;Bas
7024	chrY	9944881	.	T	C	16034.48	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
7025	chrY	9944883	.	T	G	3958.76	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.230e
7026	chrY	9944896	.	T	A	22733.49	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
7027	chrY	9944899	.	C	T,A	81870.85	PASS	AC=34,8;AF=0.486,0.114;AN=70;Base
7028	chrY	9944900	.	G	T	22388.55	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
7029	chrY	9944904	.	T	C	14408.80	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
7030	chrY	9944912	.	T	A,C	13865.83	PASS	AC=20,5;AF=0.286,0.071;AN=70;Base
7031	chrY	9944916	.	G	A	2396.45	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.660e
7032	chrY	9944917	.	A	G	1836.58	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7033	chrY	9944926	.	T	G	4476.42	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum
7034	chrY	9944951	.	C	T	351.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.080e-
7035	chrY	9944955	.	G	A	5812.92	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
7036	chrY	9944956	.	A	T	25288.12	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7037	chrY	9944963	.	G	A	2378.17	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7038	chrY	9944973	.	A	G	136575.09	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum
7039	chrY	9944979	.	G	A	140146.45	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum
7040	chrY	9944987	.	A	G	141186.82	PASS	AC=43;AF=0.614;AN=70;BaseQRankSum
7041	chrY	9944991	.	A	T	316.58	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7042	chrY	9944994	.	A	G	36776.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7043	chrY	9945008	.	C	A,G	9215.42	PASS	AC=4,23;AF=0.057,0.329;AN=70;BaseQRankSum
7044	chrY	9945016	.	C	T	2928.43	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7045	chrY	9945017	.	C	G	2973.39	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7046	chrY	9945018	.	C	T	3029.29	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7047	chrY	9945022	.	T	C	1281.47	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
7048	chrY	9945024	.	C	T	124.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7049	chrY	9945028	.	T	C	64.27	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7050	chrY	9945040	.	A	T	76466.86	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
7051	chrY	9945049	.	G	A	114.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7052	chrY	9945050	.	C	A	101.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7053	chrY	9945054	.	C	G	150.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.314;Cl
7054	chrY	9945065	.	T	C	1816.11	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
7055	chrY	9945066	.	G	T	17288.74	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
7056	chrY	9945073	.	C	A	119.38	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7057	chrY	9945078	.	C	G	5339.33	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.941;C
7058	chrY	9945083	.	T	C	42362.93	PASS	AC=34;AF=0.500;AN=70;BaseQRankSum
7059	chrY	9945086	.	A	G	28036.91	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7060	chrY	9945094	.	T	C	78544.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
7061	chrY	9945095	.	C	T	6316.01	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-6.710e
7062	chrY	9945101	.	C	A	58389.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
7063	chrY	9945123	.	A	G	7584.96	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.141e
7064	chrY	9945130	.	T	C,A	49944.88	PASS	AC=32,1;AF=0.457,0.014;AN=70;Base
7065	chrY	9945138	.	C	T	6066.74	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.873;C
7066	chrY	9945156	.	T	A	43714.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
7067	chrY	9945157	.	G	C	6311.38	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-2.592e
7068	chrY	9945162	.	A	T	25020.18	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum

7069	chrY	9945172	.	A	G	20457.93	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7070	chrY	9945185	.	T	A	3441.79	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
7071	chrY	9945190	.	C	G	22369.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
7072	chrY	9945199	.	G	A	3770.77	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
7073	chrY	9945212	.	C	A	21806.17	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
7074	chrY	9945244	.	A	C,*	14812.56	PASS	AC=10,15;AF=0.143,0.214;AN=70;Bas
7075	chrY	9945261	.	A	T	12197.80	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
7076	chrY	9945265	.	C	A	888.15	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.199;C
7077	chrY	9945276	.	A	T	11627.98	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
7078	chrY	9945280	.	T	C	839.85	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
7079	chrY	9945281	.	A	G	11133.19	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
7080	chrY	9945287	.	A	G	56.20	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7081	chrY	9945299	.	G	A	3838.16	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum
7082	chrY	9945311	.	C	T	99.22	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7083	chrY	9945325	.	A	C	82524.28	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum
7084	chrY	9945330	.	G	A	12263.59	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
7085	chrY	9945336	.	A	G	410.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.452;Cl
7086	chrY	9945337	.	T	C	33999.73	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7087	chrY	9945339	.	G	C	2481.73	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
7088	chrY	9945343	.	T	C	224.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.546;Cl
7089	chrY	9945346	.	T	C	6992.50	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.645e
7090	chrY	9945356	.	G	T	33194.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7091	chrY	9945357	.	T	C	1161.09	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.00;Cl
7092	chrY	9945360	.	G	A	2784.14	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.103;C
7093	chrY	9945364	.	A	G	3801.09	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-3.470e
7094	chrY	9945373	.	T	C	132.07	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7095	chrY	9945385	.	G	T	325.01	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.18;Cli
7096	chrY	9945390	.	C	T	5637.23	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-1.980e
7097	chrY	9945396	.	A	G	41.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.358;Cl
7098	chrY	9945398	.	A	C	3615.49	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=0.035;Cl
7099	chrY	9945402	.	A	C	35.39	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=-7.200e-
7100	chrY	9945412	.	C	A	16490.03	PASS	AC=11;AF=0.275;AN=40;BaseQRankSum
7101	chrY	9945414	.	C	T	21573.97	my_snp_filter	AC=11;AF=0.306;AN=36;Base
7102	chrY	9945416	.	T	C	9196.46	my_snp_filter	AC=9;AF=0.237;AN=38;BaseQRankSum=
7103	chrY	9945419	.	G	A	20357.95	my_snp_filter	AC=11;AF=0.306;AN=36;Base
7104	chrY	9945422	.	G	A	1989.70	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=-2.220e-
7105	chrY	9945443	.	A	C	10816.66	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
7106	chrY	9945445	.	T	C	1274.16	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=2.24;Cli
7107	chrY	9945452	.	T	C	79.90	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
7108	chrY	9945458	.	A	G,T	237.39	my_snp_filter	AC=1,3;AF=0.022,0.065;AN=46;BaseQ
7109	chrY	9945464	.	T	G	1075.95	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=0.796;Cl
7110	chrY	9945467	.	C	T	1347.85	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=-6.330e-
7111	chrY	9945474	.	G	T	5694.67	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=-4.209e+
7112	chrY	9945482	.	A	T	150.22	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQRankSum=
7113	chrY	9945494	.	G	T	188.60	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQRankSum=
7114	chrY	9945502	.	C	T	1011.43	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=-5.510e-
7115	chrY	9945521	.	T	A	376.97	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=0.396;Cl
7116	chrY	9945528	.	C	T	329.95	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.867;Cl
7117	chrY	9945565	.	G	A	1702.26	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
7118	chrY	9945596	.	T	C	287.03	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.87;Cli
7119	chrY	9945604	.	C	G	49.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-8.190e-
7120	chrY	9945636	.	A	G	2216.29	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-6.750e-
7121	chrY	9945645	.	T	A	2774.59	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=-5.440e-
7122	chrY	9945681	.	G	C	5489.42	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
7123	chrY	9945683	.	A	G	37.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
7124	chrY	9945689	.	A	T	543.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.220e-
7125	chrY	9945707	.	A	T	1022.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.411;Cl
7126	chrY	9945722	.	C	A	7043.69	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.60;Cl
7127	chrY	9945727	.	C	T	1140.02	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-8.750e-
7128	chrY	9945732	.	G	A	7273.03	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.076e
7129	chrY	9945739	.	T	G	1151.05	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.09;Cli
7130	chrY	9945743	.	G	T	1141.05	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.725;Cl
7131	chrY	9945744	.	G	T	1142.63	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.109e+
7132	chrY	9945756	.	G	T	1163.57	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-2.810e-
7133	chrY	9945759	.	T	A	1809.51	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-5.920e-
7134	chrY	9945763	.	G	A	12548.38	my_snp_filter	AC=19;AF=0.288;AN=66;Base
7135	chrY	9945768	.	A	T	7068.78	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=0.736;C
7136	chrY	9945777	.	A	G	6226.17	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.269;C
7137	chrY	9945810	.	A	C	290.04	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.245;Cl
7138	chrY	9945813	.	T	A	302.87	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=2.07;Cli
7139	chrY	9945815	.	A	G	5486.43	my_snp_filter	AC=13;AF=0.217;AN=60;BaseQRankSum
7140	chrY	9945822	.	C	A,G	1130.45	PASS	AC=5,1;AF=0.086,0.017;AN=58;BaseQRankSum=
7141	chrY	9945824	.	T	G	270.62	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=3.09;Cli
7142	chrY	9945826	.	C	T	2054.12	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=0.804;Cl
7143	chrY	9945832	.	T	C	5258.69	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQRankSum=
7144	chrY	9945837	.	C	T	675.26	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=2.25;Cli

7145	chrY	9945838	.	G	A	4413.30	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQRankSum
7146	chrY	9945840	.	A	G	122.14	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=1.78;Cli
7147	chrY	9945856	.	C	T	8505.28	my_snp_filter	AC=10;AF=0.217;AN=46;BaseQRankSum
7148	chrY	9945874	.	A	G	10740.16	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
7149	chrY	9945904	.	T	C	210.60	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQRankSum=
7150	chrY	9945983	.	A	G	21532.35	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
7151	chrY	9946003	.	T	A	19831.29	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
7152	chrY	9946014	.	T	A	25138.06	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
7153	chrY	9946026	.	C	T	25663.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum
7154	chrY	9946031	.	T	C	23705.29	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
7155	chrY	9946053	.	C	G	4221.29	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=0.430;Cl
7156	chrY	9946059	.	G	C	14475.82	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
7157	chrY	9946062	.	A	G	922.84	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=-2.595e+
7158	chrY	9946088	.	C	G	20123	PASS	AC=13;AF=0.591;AN=22;BaseQRankSum=1.76;Cl
7159	chrY	9946089	.	T	A	15883.68	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
7160	chrY	9946094	.	T	C	16079.71	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
7161	chrY	9946096	.	C	A	128.12	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQRankSum=
7162	chrY	9946102	.	T	C	1452.32	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=1.15;Cli
7163	chrY	9946103	.	G	A	16442.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
7164	chrY	9946113	.	A	T	13773.08	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
7165	chrY	9946118	.	T	G	18247.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
7166	chrY	9946128	.	T	G	112.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
7167	chrY	9946132	.	G	A	11748.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
7168	chrY	9946145	.	C	G	263.70	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
7169	chrY	9946147	.	A	G	1719.23	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=-1.814e+
7170	chrY	9946167	.	T	G	423.29	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
7171	chrY	9946170	.	C	T	6366.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-8.990e-
7172	chrY	9946179	.	C	A	524.17	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
7173	chrY	9946198	.	C	T	144.33	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
7174	chrY	9946206	.	A	T	433.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
7175	chrY	9946217	.	T	C	843.50	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
7176	chrY	9946220	.	C	T	837.52	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
7177	chrY	9946225	.	G	C	1078.73	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=
7178	chrY	9946228	.	T	C	975.65	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=-6.454e+
7179	chrY	9946232	.	T	A	2745.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=-2.157e+
7180	chrY	9946241	.	A	C	120.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
7181	chrY	9946246	.	A	C	14548.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
7182	chrY	9946251	.	G	A	595.78	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
7183	chrY	9946252	.	C	T	985.13	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=
7184	chrY	9946254	.	G	A	2227.43	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=4.00;Cli
7185	chrY	9946261	.	G	C	8608.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=4.22;Cli
7186	chrY	9946262	.	T	C	615.31	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQRankSum=
7187	chrY	9946264	.	A	G	26486.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
7188	chrY	9946266	.	T	C	3961.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=2.97;Cli
7189	chrY	9946280	.	T	A	3819.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-4.026e+
7190	chrY	9946297	.	A	T	117.72	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
7191	chrY	9946313	.	C	T	14307.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
7192	chrY	9946318	.	G	T	13231.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
7193	chrY	9946336	.	C	T	8444.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQRankSum=
7194	chrY	9946341	.	A	G	476.67	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=-2.445e+
7195	chrY	9946346	.	A	G	519.21	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=-2.910e-
7196	chrY	9946347	.	A	G	115.43	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=
7197	chrY	9946352	.	C	T	544.81	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=1.19;Cli
7198	chrY	9946362	.	G	A	144.01	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=
7199	chrY	9946384	.	G	T	211.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.853e+
7200	chrY	9946389	.	A	T	211.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-1.529e+
7201	chrY	9946401	.	C	A	152.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.227;Cl
7202	chrY	9946405	.	C	T	107.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=1.75;Cli
7203	chrY	9946408	.	T	C	62.87	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=0.269;Cl
7204	chrY	9946536	.	A	C	1674.18	PASS	AC=6;AF=0.333;AN=18;DP=164;FS=0.000;MLEAC
7205	chrY	9946738	.	A	T	140.88	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
7206	chrY	9946766	.	G	C	513.17	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-2.344e+
7207	chrY	9946769	.	T	C	514.69	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-1.714e+
7208	chrY	9946785	.	T	C	221.04	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-3.400e-
7209	chrY	9946831	.	C	T	145.53	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQRankSum=
7210	chrY	9947100	.	G	A	46.09	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
7211	chrY	9947114	.	T	C	42.78	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
7212	chrY	9947139	.	G	C	162.04	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=-6.450e-
7213	chrY	9947140	.	G	A	43.70	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
7214	chrY	9947148	.	A	C	1916.41	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=-1.528e+
7215	chrY	9947151	.	A	G	1794	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=-7.300e-
7216	chrY	9947167	.	C	T	118.20	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQRankSum=
7217	chrY	9947179	.	G	C	33.92	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
7218	chrY	9947208	.	T	A	337.68	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQRankSum=
7219	chrY	9947215	.	C	G	2110.42	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=1.93;Cli
7220	chrY	9947234	.	T	C	1632.40	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=0.415;Cl

7221	chrY	9947236	.	T	C	562.63	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=0.071;Cl
7222	chrY	9947237	.	T	C	1231.92	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=0.028;Cl
7223	chrY	9947250	.	C	T	938.17	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=0.942;Cl
7224	chrY	9947258	.	G	T	96.06	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
7225	chrY	9947259	.	T	C	296.21	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.21;Cl
7226	chrY	9947675	.	G	A	1778.95	PASS	AC=6;AF=0.300;AN=20;DP=194;FS=0.000;Inbre
7227	chrY	9948348	.	C	T	79.50	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-2.068e+
7228	chrY	9948349	.	A	G	79.41	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=-6.890e-
7229	chrY	9948397	.	T	A	72.93	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
7230	chrY	9948400	.	C	T	123.25	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-1.256e+
7231	chrY	9948457	.	G	A	43.73	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-7.200e-
7232	chrY	9949426	.	A	G	132.64	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=0.00;Cli
7233	chrY	9949436	.	A	T	52.34	PASS	AC=2;AF=0.067;AN=30;DP=252;FS=0.000;Inbre
7234	chrY	9949438	.	T	G	184.11	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=-7.760e-
7235	chrY	9949440	.	G	T	52.34	PASS	AC=2;AF=0.071;AN=28;DP=249;FS=0.000;Inbre
7236	chrY	9949477	.	G	A	58.69	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQRankSum=
7237	chrY	9949478	.	C	G	113.71	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQRankSum=
7238	chrY	9949507	.	G	C	177.13	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=0.819;Cl
7239	chrY	9949521	.	T	A	96.85	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.819;Cl
7240	chrY	9949524	.	A	G	129.46	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.98;Cli
7241	chrY	9949526	.	G	A	47.53	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
7242	chrY	9949528	.	C	A	48.71	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
7243	chrY	9949529	.	A	G	50.39	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
7244	chrY	9949761	.	C	A	687.59	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=-1.612e+
7245	chrY	9949766	.	T	C	656.99	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=-2.838e+
7246	chrY	9949779	.	A	G	1019.25	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=-4.069e+
7247	chrY	9949782	.	C	G	1061.75	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=-1.826e+
7248	chrY	9949791	.	C	T	1085.45	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=-1.699e+
7249	chrY	9949798	.	A	T	1918.63	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-1.484e+
7250	chrY	9949800	.	G	A	738.77	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=0.680;Cl
7251	chrY	9949818	.	A	G	3526.46	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
7252	chrY	9949823	.	C	A	688.24	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-1.114e+
7253	chrY	9949827	.	T	A	733.39	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-6.440e-
7254	chrY	9949828	.	C	G	798.67	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.733e+
7255	chrY	9949831	.	C	G	3913.76	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7256	chrY	9949845	.	G	T	67.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7257	chrY	9949846	.	G	A	284.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.985e+
7258	chrY	9949858	.	A	G	2232.73	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
7259	chrY	9949865	.	G	A	238.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.400e-
7260	chrY	9949866	.	C	A	630.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.635;Cl
7261	chrY	9949873	.	G	A	2455.16	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
7262	chrY	9949883	.	G	C	646.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-3.830e-
7263	chrY	9949890	.	A	T,G	812.96	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQRankSum=
7264	chrY	9949891	.	C	G	654.11	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.897;Cl
7265	chrY	9949910	.	A	G	3084.94	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.641e+
7266	chrY	9949917	.	T	A	2305.61	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7267	chrY	9949927	.	G	A	2172.29	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7268	chrY	9949933	.	C	T	846.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.749;Cl
7269	chrY	9949938	.	G	T	3495.92	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=2.77;Cl
7270	chrY	9949943	.	C	T	266.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.667e+
7271	chrY	9949944	.	A	G	3338.09	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.635e+
7272	chrY	9949957	.	T	G	2809.56	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.222;Cl
7273	chrY	9949962	.	T	C	1142.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.700;Cl
7274	chrY	9949969	.	T	C	2874.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.68;Cli
7275	chrY	9949975	.	G	T	1218.34	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.303;Cl
7276	chrY	9949977	.	T	G	3421.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.33;Cl
7277	chrY	9949988	.	A	G	4203.89	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-9.210e-
7278	chrY	9949991	.	G	A	4186.85	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.830e-
7279	chrY	9949992	.	G	T	264.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.860e-
7280	chrY	9949996	.	A	C	264.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.96;Cli
7281	chrY	9949999	.	C	A	45.41	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7282	chrY	9950000	.	G	A	1698.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.924;Cl
7283	chrY	9950014	.	C	A	1217.66	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.300e-
7284	chrY	9950018	.	T	G	1211.68	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.918;Cl
7285	chrY	9950026	.	C	T	1134.84	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.540e-
7286	chrY	9950031	.	T	C	709.04	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.627;Cl
7287	chrY	9950032	.	G	T	712.76	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.306;Cl
7288	chrY	9950035	.	C	T	1011.94	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.322;Cl
7289	chrY	9950036	.	G	A,C	2734.68	PASS	AC=1,7;AF=0.015,0.103;AN=68;BaseQRankSum=
7290	chrY	9950070	.	C	G	333.82	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-6.280e-
7291	chrY	9950095	.	A	G	1672.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.538;Cl
7292	chrY	9950099	.	C	T	798.03	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.00;Cli
7293	chrY	9950103	.	T	A	1538.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.094;Cl
7294	chrY	9950106	.	G	A	1522.19	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.24;Cli
7295	chrY	9950132	.	G	A	55.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7296	chrY	9950143	.	T	A	3741.32	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.370e-

7297	chrY	9950148	.	C	A	3524.26	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.171;Cli
7298	chrY	9950152	.	C	T	3169.55	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.449e+
7299	chrY	9950159	.	A	G,T	2323.07	PASS	AC=8,1;AF=0.114,0.014;AN=70;BaseQRankSum=
7300	chrY	9950176	.	G	A	211.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.285e+
7301	chrY	9950179	.	G	A	1189.54	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.36;Cli
7302	chrY	9950180	.	C	G	1552.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.396;Cli
7303	chrY	9950187	.	T	A	1128.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.586e+
7304	chrY	9950190	.	C	G	1448.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-4.560e-
7305	chrY	9950196	.	T	G	1321.46	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.485e+
7306	chrY	9950208	.	G	C	1943.34	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=2.11;Cli
7307	chrY	9950211	.	T	C	286.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.26;Cli
7308	chrY	9950214	.	G	A	1531.93	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.61;Cli
7309	chrY	9950222	.	C	T,A	1286.13	PASS	AC=3,3;AF=0.047,0.047;AN=64;BaseQRankSum=
7310	chrY	9950223	.	A	G	2691.86	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.37;Cli
7311	chrY	9950225	.	A	C	3395.90	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-7.520e-
7312	chrY	9950247	.	A	G	1373.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.706e+
7313	chrY	9950256	.	A	T	1196.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.25;Cli
7314	chrY	9950258	.	G	A	1083.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-9.230e-
7315	chrY	9950266	.	T	C	9921.47	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.193;Cli
7316	chrY	9950267	.	C	T	602.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.385e+
7317	chrY	9950270	.	C	A	3785.62	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.708e+
7318	chrY	9950276	.	T	C	10053.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
7319	chrY	9950277	.	G	A	6975.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.33;Cli
7320	chrY	9950285	.	G	C	7713.54	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=4.63;Cli
7321	chrY	9950302	.	G	T	130.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.259;Cli
7322	chrY	9950328	.	T	C	13555.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
7323	chrY	9950330	.	C	T	40.84	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7324	chrY	9950332	.	G	T	270.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7325	chrY	9950335	.	G	T	273.04	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
7326	chrY	9950337	.	C	T	1349.28	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.883;Cli
7327	chrY	9950338	.	C	G	8761.80	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-2.371e+
7328	chrY	9950344	.	C	A	302.19	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
7329	chrY	9950345	.	C	T	1944.73	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.345e+
7330	chrY	9950350	.	A	C	1959.67	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.02;Cli
7331	chrY	9950352	.	T	G	11340.27	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
7332	chrY	9950356	.	G	T	82.89	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
7333	chrY	9950358	.	C	T	4152.67	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=1.27;Cli
7334	chrY	9950359	.	A	G	5745.70	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.530;Cli
7335	chrY	9950378	.	A	T	3400.97	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.46;Cli
7336	chrY	9950382	.	A	C	1017.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.796;Cli
7337	chrY	9950384	.	T	A	2344.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.75;Cli
7338	chrY	9950396	.	A	C	1587.20	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
7339	chrY	9950406	.	G	A	770.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.321;Cli
7340	chrY	9950409	.	T	C	1437.02	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
7341	chrY	9950416	.	A	G	382.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.36;Cli
7342	chrY	9950419	.	A	G	2118.02	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
7343	chrY	9950425	.	A	G	2647.40	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=-3.120e-
7344	chrY	9950432	.	A	G	54.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.890e+
7345	chrY	9950457	.	A	C	10933.21	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
7346	chrY	9950470	.	G	A	13916.85	my_snp_filter	AC=17;AF=0.250;AN=68;BaseQRankSum=
7347	chrY	9950472	.	G	C	4745.54	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-3.465e+
7348	chrY	9950474	.	A	G	4551.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.212e+
7349	chrY	9950476	.	A	G	14593.43	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
7350	chrY	9950483	.	C	G	32.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.50;Cli
7351	chrY	9950484	.	C	T	2079.03	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-3.343e+
7352	chrY	9950503	.	C	T	13353.55	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
7353	chrY	9950504	.	A	G	17786.37	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
7354	chrY	9950506	.	G	A	67.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.510e-
7355	chrY	9950510	.	G	A	70.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.898;Cli
7356	chrY	9950511	.	G	T	6007.65	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.537e+
7357	chrY	9950520	.	C	A,T	17496.57	PASS	AC=28,5;AF=0.400,0.071;AN=70;BaseQRankSum=
7358	chrY	9950524	.	C	T	17235.36	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
7359	chrY	9950526	.	G	T	6343.84	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.088e+
7360	chrY	9950542	.	G	A	41648.51	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
7361	chrY	9950550	.	G	A	11941.46	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
7362	chrY	9950551	.	C	T	16095.59	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
7363	chrY	9950561	.	G	A	977.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-8.520e-
7364	chrY	9950568	.	C	A	15136.72	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
7365	chrY	9950572	.	G	T,A	45808.74	PASS	AC=34,5;AF=0.486,0.071;AN=70;BaseQRankSum=
7366	chrY	9950573	.	G	A	204.64	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.736;Cli
7367	chrY	9950583	.	C	T	1259.65	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-9.060e-
7368	chrY	9950584	.	T	C	53674.85	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
7369	chrY	9950585	.	C	A	777.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-9.970e-
7370	chrY	9950600	.	C	T	23256.81	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
7371	chrY	9950601	.	G	A	496.44	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
7372	chrY	9950607	.	T	A	8219.20	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-4.850e-

7373	chrY	9950612	.	G	T	57057.88	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
7374	chrY	9950614	.	G	C	194.47	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7375	chrY	9950625	.	A	C	14170.83	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
7376	chrY	9950638	.	T	A	158.35	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-4.450e-
7377	chrY	9950641	.	G	T	156.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.290e-
7378	chrY	9950643	.	T	C	53135.68	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum=
7379	chrY	9950644	.	G	A	25623.30	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
7380	chrY	9950651	.	C	T	14444.68	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
7381	chrY	9950665	.	C	T	20949.80	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
7382	chrY	9950667	.	G	T	2703.58	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.053;C
7383	chrY	9950671	.	T	C	57253.52	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=
7384	chrY	9950672	.	T	C	2145.82	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.566;C
7385	chrY	9950673	.	G	C	254.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.550;Cl
7386	chrY	9950674	.	C	T	59466.68	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
7387	chrY	9950677	.	C	T	2272.26	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=0.658;C
7388	chrY	9950681	.	C	T,*	23676.45	PASS	AC=1,23;AF=0.015,0.348;AN=66;Base
7389	chrY	9950699	.	C	A	30155.68	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
7390	chrY	9950703	.	C	T	74057	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=0.260;C
7391	chrY	9950731	.	T	C	30174.75	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
7392	chrY	9950734	.	A	G	83666.87	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
7393	chrY	9950736	.	G	T	1457.59	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.54;Cli
7394	chrY	9950752	.	T	C	21237.73	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
7395	chrY	9950760	.	A	C	84900.94	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
7396	chrY	9950770	.	G	A	52698.19	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
7397	chrY	9950778	.	C	T	2211.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.532e+
7398	chrY	9950781	.	G	A	2905.66	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7399	chrY	9950783	.	C	T	2344.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.049;Cl
7400	chrY	9950789	.	A	G	74453.44	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
7401	chrY	9950790	.	T	G	2845.16	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
7402	chrY	9950799	.	A	G	30433.40	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
7403	chrY	9950805	.	G	A	96477.22	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
7404	chrY	9950806	.	A	G	34723.74	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
7405	chrY	9950815	.	C	A,T	43425.94	PASS	AC=24,13;AF=0.343,0.186;AN=70;Bas
7406	chrY	9950820	.	G	A	13400.17	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
7407	chrY	9950859	.	A	G	4796.11	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.453;C
7408	chrY	9950862	.	T	G	94980.95	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
7409	chrY	9950889	.	G	T	236.31	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
7410	chrY	9950890	.	G	A	13120.27	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
7411	chrY	9950897	.	G	T	4068.67	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.900e-
7412	chrY	9950899	.	G	A	95132.04	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
7413	chrY	9950902	.	G	A	398.20	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
7414	chrY	9950905	.	G	A	734.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.685;Cl
7415	chrY	9950915	.	A	G	34294.88	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
7416	chrY	9950916	.	C	A	25360.77	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
7417	chrY	9950927	.	G	C	97361.90	PASS	AC=39;AF=0.574;AN=68;BaseQRankSum=
7418	chrY	9950938	.	A	C,T,*	27753.55	PASS	AC=19,5,7;AF=0.297,0.078,0.109;AN
7419	chrY	9950939	.	A	G	17925.73	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=
7420	chrY	9950946	.	G	A,T	26981.76	PASS	AC=20,1;AF=0.286,0.014;AN=70;Base
7421	chrY	9950951	.	G	A	26608.71	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
7422	chrY	9950953	.	G	A	120.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-6.190e-
7423	chrY	9950959	.	T	G	111232.48	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum=
7424	chrY	9950965	.	C	G	25397.44	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
7425	chrY	9950974	.	C	T	6900.77	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.96;Cl
7426	chrY	9950993	.	A	G	210.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
7427	chrY	9950994	.	A	T	6142.81	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-6.310e
7428	chrY	9950995	.	A	G	19328.84	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
7429	chrY	9950999	.	A	T	109723.20	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
7430	chrY	9951000	.	C	T	243.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7431	chrY	9951026	.	A	G	15593.16	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
7432	chrY	9951028	.	A	G	103346.91	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
7433	chrY	9951038	.	G	A	610.44	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7434	chrY	9951042	.	G	A	32419.04	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
7435	chrY	9951044	.	C	T	19097.87	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
7436	chrY	9951051	.	C	G	6004.10	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-7.290e
7437	chrY	9951059	.	T	C,A	1747.84	PASS	AC=2,6;AF=0.029,0.088;AN=68;BaseQRankSum=
7438	chrY	9951074	.	C	T	510.68	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
7439	chrY	9951075	.	A	G	15789.73	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
7440	chrY	9951076	.	C	T	6848.67	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=3.75;Cl
7441	chrY	9951081	.	T	C	89359.06	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum=
7442	chrY	9951085	.	T	C	20702.65	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
7443	chrY	9951108	.	T	C	16323.61	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
7444	chrY	9951110	.	G	A	79226.59	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum=
7445	chrY	9951118	.	A	G	77195.03	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
7446	chrY	9951129	.	T	C	16305.97	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
7447	chrY	9951135	.	C	A	465.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.240e-
7448	chrY	9951138	.	A	G	13743.24	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=

7449	chrY	9951143	.	G	T	13852.68	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
7450	chrY	9951145	.	C	A	26860.77	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
7451	chrY	9951146	.	C	T	10919.16	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
7452	chrY	9951149	.	A	C	2049.96	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
7453	chrY	9951152	.	G	A	77136.40	PASS	AC=38;AF=0.576;AN=66;BaseQRankSum
7454	chrY	9951155	.	C	T	25567.27	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
7455	chrY	9951160	.	C	A	77948.05	PASS	AC=40;AF=0.588;AN=68;BaseQRankSum
7456	chrY	9951164	.	C	T	245.93	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.217;Cl
7457	chrY	9951173	.	T	C	691.65	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-5.320e-
7458	chrY	9951180	.	C	G	16968.41	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
7459	chrY	9951194	.	A	C	9067.18	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=0.452;C
7460	chrY	9951196	.	C	G	228.73	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-4.060e-
7461	chrY	9951197	.	A	T	149.96	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=0.978;Cl
7462	chrY	9951205	.	G	A	27580.54	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum
7463	chrY	9951211	.	A	C	463.03	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum
7464	chrY	9951221	.	A	G	7572.03	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-3.550e-
7465	chrY	9951226	.	A	G	9251.05	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=-9.220e-
7466	chrY	9951233	.	A	G	13603.47	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum
7467	chrY	9951247	.	C	T	1858.23	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQRankSum
7468	chrY	9951303	.	C	T	13748.94	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum
7469	chrY	9951304	.	T	C	78951.92	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum
7470	chrY	9951321	.	A	G	24071.56	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
7471	chrY	9951342	.	G	A	1444.19	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
7472	chrY	9951346	.	C	T	1378.47	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
7473	chrY	9951359	.	T	A	77022.80	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
7474	chrY	9951364	.	A	T	76967.34	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
7475	chrY	9951370	.	A	C	67956.45	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
7476	chrY	9951383	.	C	G	1306.97	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
7477	chrY	9951394	.	G	A	21074.09	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
7478	chrY	9951396	.	A	G	28825.01	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
7479	chrY	9951397	.	C	T	81854.69	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
7480	chrY	9951401	.	C	T	18836	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=2.02;Cl
7481	chrY	9951402	.	T	C	81538.28	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
7482	chrY	9951406	.	C	A	2424.91	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7483	chrY	9951417	.	T	C	1916.71	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum
7484	chrY	9951421	.	C	T	21025.22	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
7485	chrY	9951424	.	A	G	2749.74	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7486	chrY	9951425	.	G	T	2130.99	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum
7487	chrY	9951429	.	C	T	2750.47	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7488	chrY	9951430	.	A	G	33.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.922;Cl
7489	chrY	9951436	.	C	G	553.08	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-2.640e-
7490	chrY	9951437	.	T	C	6892.37	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.747;C
7491	chrY	9951438	.	T	C	2344.65	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum
7492	chrY	9951463	.	C	A,G	15553.53	PASS	AC=15,5;AF=0.221,0.074;AN=68;Base
7493	chrY	9951471	.	A	G	33.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.380e+
7494	chrY	9951480	.	G	A	9417.90	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.19;Cl
7495	chrY	9951485	.	T	A	9321.02	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.351;C
7496	chrY	9951489	.	A	T	15593.77	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
7497	chrY	9951493	.	A	T	735.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.731;Cl
7498	chrY	9951494	.	A	G	742.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.509;Cl
7499	chrY	9951503	.	T	G	49385.26	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
7500	chrY	9951505	.	A	C	9166.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-5.062e
7501	chrY	9951514	.	C	T	288.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7502	chrY	9951515	.	T	G	8728.98	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-7.070e
7503	chrY	9951521	.	T	C	270.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7504	chrY	9951523	.	T	A	57751.56	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum
7505	chrY	9951531	.	G	C	18008.71	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum
7506	chrY	9951532	.	G	A	18113.64	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
7507	chrY	9951537	.	T	A	7403.32	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-8.330e
7508	chrY	9951545	.	A	G	7269.72	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-2.685e
7509	chrY	9951547	.	A	T	110.95	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum
7510	chrY	9951552	.	A	G	7037.60	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-6.437e
7511	chrY	9951555	.	T	C	12266.12	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
7512	chrY	9951560	.	T	A	47145.21	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum
7513	chrY	9951562	.	T	G	14534.21	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
7514	chrY	9951570	.	A	C	44007.99	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum
7515	chrY	9951576	.	A	G	6272.38	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-2.682e+
7516	chrY	9951577	.	C	T	203.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
7517	chrY	9951601	.	G	C	51296.72	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
7518	chrY	9951610	.	T	C	6014.50	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.424;Cl
7519	chrY	9951613	.	T	C	57399.52	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
7520	chrY	9951614	.	T	A	49.85	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.198;Cl
7521	chrY	9951622	.	G	T	6284.72	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-7.380e-
7522	chrY	9951637	.	A	T	6814.96	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-1.377e
7523	chrY	9951640	.	A	C	10514.80	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum
7524	chrY	9951642	.	T	A	10589.98	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum

7525	chrY	9951644	.	T	A	30587.36	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum
7526	chrY	9951652	.	A	C	6594.63	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-2.154e
7527	chrY	9951667	.	A	G	1376.15	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
7528	chrY	9951668	.	C	T	17408.88	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
7529	chrY	9951677	.	A	G,C	73348.52	PASS	AC=27,3;AF=0.482,0.054;AN=56;Base
7530	chrY	9951686	.	A	G	40108.20	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum
7531	chrY	9951689	.	A	G	13970.63	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum
7532	chrY	9951690	.	T	C	1745.21	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
7533	chrY	9951713	.	C	T	74567.97	PASS	AC=18;AF=0.474;AN=38;BaseQRankSum
7534	chrY	9951714	.	C	T	25125.68	PASS	AC=14;AF=0.304;AN=46;BaseQRankSum
7535	chrY	9951715	.	G	A	26873.32	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum
7536	chrY	9951723	.	A	T	24011.37	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum
7537	chrY	9951729	.	A	G,T	65474.76	PASS	AC=17,1;AF=0.425,0.025;AN=40;Base
7538	chrY	9951731	.	A	G	456.36	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQRankSum=
7539	chrY	9951733	.	A	T	2980.86	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=-5.752e+
7540	chrY	9951752	.	A	G	1825.77	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQRankSum=
7541	chrY	9951765	.	T	A	1669.90	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQRankSum=
7542	chrY	9951775	.	G	A	132.94	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQRankSum=
7543	chrY	9951785	.	A	T	10275.54	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
7544	chrY	9951786	.	G	C	26690.28	PASS	AC=17;AF=0.425;AN=40;BaseQRankSum
7545	chrY	9951787	.	C	T	217.25	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQRankSum=
7546	chrY	9951792	.	G	C	1178.59	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=-1.641e+
7547	chrY	9951794	.	A	G	9927.01	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=-2.502e+
7548	chrY	9951798	.	A	C	6087.80	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=-7.660e-
7549	chrY	9951801	.	A	T	1269.45	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=0.619;Cl
7550	chrY	9951804	.	A	G	988.36	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
7551	chrY	9951805	.	G	T	154.33	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
7552	chrY	9951807	.	G	T	300.30	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQRankSum=
7553	chrY	9951808	.	G	A	259.80	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQRankSum=
7554	chrY	9951811	.	C	T	186.31	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQRankSum=
7555	chrY	9951813	.	A	G	7709.41	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=-1.520e-
7556	chrY	9951819	.	A	C	175.27	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=-2.189e+
7557	chrY	9951833	.	A	G	34.20	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
7558	chrY	9951834	.	A	T	34.02	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
7559	chrY	9951859	.	A	G	10419.94	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
7560	chrY	9951860	.	T	A	10486.81	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
7561	chrY	9951870	.	C	A	12523.27	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum=
7562	chrY	9951880	.	C	G,A	13446.81	PASS	AC=3,9;AF=0.058,0.173;AN=52;BaseQ
7563	chrY	9951884	.	A	G	48.42	PASS	AC=2;AF=0.040;AN=50;DP=1768;FS=0.000;Inbr
7564	chrY	9951888	.	T	C	16494.16	PASS	AC=16;AF=0.421;AN=38;BaseQRankSum
7565	chrY	9951896	.	A	G	33.38	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=0.922;Cl
7566	chrY	9951897	.	C	T	15264.82	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
7567	chrY	9951910	.	A	G	44.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.360e-
7568	chrY	9951912	.	C	G	6492.76	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-1.787e+
7569	chrY	9951918	.	T	A	43.96	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.360e-
7570	chrY	9951921	.	C	T	43.91	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-7.360e-
7571	chrY	9951939	.	G	T	2125.58	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.555;Cl
7572	chrY	9951945	.	A	G	10248.26	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum
7573	chrY	9951956	.	A	G	136.54	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
7574	chrY	9951960	.	G	T	26984.76	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
7575	chrY	9951972	.	T	G	96604.81	PASS	AC=50;AF=0.781;AN=64;BaseQRankSum
7576	chrY	9951980	.	G	A	13445.90	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
7577	chrY	9951982	.	C	T	22424.04	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum
7578	chrY	9951983	.	G	A	255.72	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
7579	chrY	9952011	.	A	C	5652.55	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=-1.231e
7580	chrY	9952014	.	A	T	22251.46	PASS	AC=29;AF=0.453;AN=64;BaseQRankSum
7581	chrY	9952026	.	G	C	630.59	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
7582	chrY	9952038	.	A	T	23052.33	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
7583	chrY	9952050	.	T	G	527.67	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
7584	chrY	9952060	.	C	G	26443.38	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
7585	chrY	9952066	.	G	A	57402.72	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
7586	chrY	9952074	.	A	G	93412.49	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum
7587	chrY	9952082	.	A	G	538.02	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
7588	chrY	9952085	.	G	A	89238.89	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum
7589	chrY	9952119	.	C	A	2471.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=3.12;Cli
7590	chrY	9952122	.	G	A	1024.89	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=2.81;Cli
7591	chrY	9952126	.	C	T	3847.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=5.10;Cli
7592	chrY	9952138	.	G	A	173.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7593	chrY	9952144	.	T	G	38636.32	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7594	chrY	9952145	.	T	A	41730.08	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7595	chrY	9952152	.	A	G	48169.04	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7596	chrY	9952154	.	G	A	1085.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.785;Cl
7597	chrY	9952157	.	T	A	154.10	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7598	chrY	9952159	.	C	A	1071.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=3.69;Cli
7599	chrY	9952161	.	C	A	47247.66	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum
7600	chrY	9952162	.	T	C	3032.39	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-6.500e-

7601	chrY	9952164	.	A	T	30704.64	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7602	chrY	9952171	.	T	G	11143.43	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
7603	chrY	9952198	.	G	C	22928.31	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum
7604	chrY	9952215	.	C	T	51	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum
7605	chrY	9952217	.	A	C	53180.43	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum
7606	chrY	9952221	.	C	A	53.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
7607	chrY	9952233	.	A	T	7093.72	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-7.290e
7608	chrY	9952236	.	G	T	9861.15	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-7.470e
7609	chrY	9952246	.	A	T	13666.70	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
7610	chrY	9952250	.	T	C	154.86	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-4.800e
7611	chrY	9952251	.	C	T	33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.166e+
7612	chrY	9952260	.	G	T	78.15	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
7613	chrY	9952267	.	T	C	32825.07	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
7614	chrY	9952268	.	C	A	11940.19	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
7615	chrY	9952275	.	A	T,G	17286.34	PASS	AC=13,4;AF=0.191,0.059;AN=68;Base
7616	chrY	9952290	.	T	A	58343.09	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7617	chrY	9952291	.	G	A	4491.21	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.837;Cl
7618	chrY	9952303	.	G	A	61434.87	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
7619	chrY	9952345	.	C	T	78332.86	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
7620	chrY	9952350	.	A	G	2146.87	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.066e
7621	chrY	9952353	.	C	G	92.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.935;Cl
7622	chrY	9952363	.	G	A	86.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
7623	chrY	9952399	.	G	A	6263.81	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.222;C
7624	chrY	9952403	.	T	C	33714.17	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7625	chrY	9952407	.	T	A	136518.13	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum
7626	chrY	9952415	.	C	G	35723.90	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
7627	chrY	9952416	.	G	A	91562.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
7628	chrY	9952417	.	A	C	151.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7629	chrY	9952420	.	T	G	18986.55	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
7630	chrY	9952422	.	C	A	7749.67	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=2.05;Cl
7631	chrY	9952426	.	C	T	8983.39	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.199;C
7632	chrY	9952436	.	A	T	201.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
7633	chrY	9952446	.	T	C	7034.92	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.460e
7634	chrY	9952447	.	G	A	7237.40	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.977;C
7635	chrY	9952448	.	C	G	33219.64	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7636	chrY	9952453	.	A	T	7113.72	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.161;C
7637	chrY	9952469	.	G	A	35602.48	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7638	chrY	9952470	.	C	T,A	8216.10	PASS	AC=11,12;AF=0.157,0.171;AN=70;BaseQRankSu
7639	chrY	9952474	.	C	G,T	19428.74	PASS	AC=32,3;AF=0.457,0.043;AN=70;Base
7640	chrY	9952481	.	A	C	1196.84	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-4.230e
7641	chrY	9952483	.	A	G	34522.93	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7642	chrY	9952492	.	A	G	5169.23	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum
7643	chrY	9952494	.	A	G	5166.29	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum
7644	chrY	9952497	.	A	G,T	101099.71	PASS	AC=41,3;AF=0.603,0.044;AN=68;Base
7645	chrY	9952498	.	G	A	14352.20	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
7646	chrY	9952504	.	C	A	28794.32	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum
7647	chrY	9952510	.	G	T	4621.29	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
7648	chrY	9952514	.	A	T	703.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7649	chrY	9952528	.	C	T	5798.89	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.952e
7650	chrY	9952535	.	T	C	14279.93	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum
7651	chrY	9952537	.	C	T	14365.16	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum
7652	chrY	9952543	.	T	C	334.21	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum
7653	chrY	9952544	.	G	A	11568.64	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum
7654	chrY	9952545	.	G	T	2661.08	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum
7655	chrY	9952546	.	T	G	16438.08	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum
7656	chrY	9952551	.	C	T	558.98	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.406;Cl
7657	chrY	9952552	.	A	G	561.44	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-7.360e-
7658	chrY	9952558	.	C	A	92578.48	PASS	AC=37;AF=0.638;AN=58;BaseQRankSum
7659	chrY	9952565	.	A	G	57269.38	PASS	AC=30;AF=0.500;AN=60;BaseQRankSum
7660	chrY	9952574	.	G	C	9724.37	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=-1.493e
7661	chrY	9952597	.	G	A	9875.45	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=0.297;Cl
7662	chrY	9952611	.	C	A	6781.44	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=2.74;Cl
7663	chrY	9952613	.	C	T	8304.23	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=-1.455e+
7664	chrY	9952617	.	T	C	66598.37	PASS	AC=27;AF=0.750;AN=36;BaseQRankSum
7665	chrY	9952621	.	T	A	29475.37	PASS	AC=13;AF=0.295;AN=44;BaseQRankSum
7666	chrY	9952624	.	T	C	931.25	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=-1.322e+
7667	chrY	9952636	.	G	A	28604.69	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum
7668	chrY	9952638	.	G	T	5676.40	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=-2.612e+
7669	chrY	9952642	.	T	C	54912.69	PASS	AC=17;AF=0.654;AN=26;BaseQRankSum
7670	chrY	9952643	.	C	T	16574.62	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum
7671	chrY	9952644	.	G	A	5245.45	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=2.22;Cli
7672	chrY	9952647	.	G	C	6611.21	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=0.581;Cl
7673	chrY	9952652	.	T	C	34252.74	PASS	AC=11;AF=0.306;AN=36;BaseQRankSum
7674	chrY	9952653	.	G	A	12168.83	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum
7675	chrY	9952654	.	G	A	4192.88	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=-8.260e-
7676	chrY	9952663	.	A	C	8827.40	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=-1.900e-

7677	chrY	9952664	.	G	A	8603.11	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=-2.541e+
7678	chrY	9952667	.	C	T	2716.26	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=-1.175e+
7679	chrY	9952674	.	T	A,G	5566.54	PASS	AC=5,4;AF=0.179,0.143;AN=28;BaseQRankSum=
7680	chrY	9952676	.	G	A	30951.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
7681	chrY	9952688	.	T	G	34063.07	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
7682	chrY	9952689	.	C	T	5699.68	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=-6.890e-
7683	chrY	9952695	.	T	G	13732.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
7684	chrY	9952698	.	T	C	41259.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
7685	chrY	9952699	.	G	A	8380.23	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=1.92;Cli
7686	chrY	9952707	.	G	A	2887.70	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=6.33;Cli
7687	chrY	9952711	.	C	G	1697.84	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-3.040e+
7688	chrY	9952720	.	A	T	31643.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
7689	chrY	9952723	.	C	T	1663	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=0.590;Cl
7690	chrY	9952729	.	A	T	38088.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
7691	chrY	9952731	.	A	T	399.13	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
7692	chrY	9952735	.	A	G,*	2759.37	PASS	AC=5,3;AF=0.192,0.115;AN=26;BaseQRankSum=
7693	chrY	9952737	.	T	G	34927.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
7694	chrY	9952739	.	A	G	32491.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
7695	chrY	9952748	.	G	A	4881.24	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=-9.840e-
7696	chrY	9952752	.	C	T	748.05	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQRankSum=
7697	chrY	9952756	.	T	C	1901.66	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=-4.679e+
7698	chrY	9952757	.	A	G	31250.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
7699	chrY	9952759	.	T	C	1484.58	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=2.29;Cli
7700	chrY	9952760	.	C	A	1882.57	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQRankSum=
7701	chrY	9952765	.	G	C	40550.06	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
7702	chrY	9952770	.	T	C	41396.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
7703	chrY	9952771	.	G	A	32857.07	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
7704	chrY	9952785	.	G	A	1166.49	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQRankSum=
7705	chrY	9952786	.	G	A	33343.64	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
7706	chrY	9952790	.	A	G	1685.23	my_snp_filter	AC=6;AF=0.130;AN=46;BaseQRankSum=
7707	chrY	9952800	.	C	T	5731.90	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=0.295;Cl
7708	chrY	9952802	.	T	A	1775.98	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQRankSum=
7709	chrY	9952814	.	G	T	39706.08	PASS	AC=15;AF=0.395;AN=38;BaseQRankSum=
7710	chrY	9952817	.	G	C	1380.85	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQRankSum=
7711	chrY	9952843	.	A	C	20964.10	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum=
7712	chrY	9952849	.	A	G	41126.03	PASS	AC=15;AF=0.313;AN=48;BaseQRankSum=
7713	chrY	9952886	.	C	T	15673.08	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum=
7714	chrY	9952930	.	C	A	32.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.572;Cl
7715	chrY	9952940	.	A	T	1873.27	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-6.440e-
7716	chrY	9952947	.	C	A	15884.35	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
7717	chrY	9952951	.	T	A	1831.47	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-2.590e-
7718	chrY	9952969	.	T	G	11355.40	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
7719	chrY	9952980	.	C	T,A	9850	my_snp_filter	AC=1,9;AF=0.016,0.141;AN=64;BaseQ
7720	chrY	9952985	.	C	A	682.62	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.14;Cli
7721	chrY	9952986	.	A	C	8018.34	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
7722	chrY	9952991	.	G	A	7720.80	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQRankSum=
7723	chrY	9953037	.	T	C	11549.53	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
7724	chrY	9953039	.	T	C	81.27	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
7725	chrY	9953040	.	A	T	11988.04	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
7726	chrY	9953056	.	T	C	642.54	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=2.12;Cli
7727	chrY	9953059	.	C	T	19011.48	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
7728	chrY	9953080	.	A	T	541.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7729	chrY	9953088	.	C	T	523.78	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7730	chrY	9953093	.	A	C	24473.93	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=
7731	chrY	9953114	.	C	G	63.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.78;Cli
7732	chrY	9953162	.	C	T	39.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.750e-
7733	chrY	9953177	.	A	G	200.87	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
7734	chrY	9953201	.	A	C	171.98	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
7735	chrY	9953202	.	T	C	17967.71	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
7736	chrY	9953211	.	G	A	28169.58	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
7737	chrY	9953212	.	T	C	4379.21	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-1.606e
7738	chrY	9953220	.	G	T	2699.58	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.091;C
7739	chrY	9953230	.	T	C	75.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7740	chrY	9953249	.	A	G	98.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7741	chrY	9953250	.	T	C	721.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.355e+
7742	chrY	9953251	.	G	T	4763.83	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.694;C
7743	chrY	9953252	.	A	T	6554.44	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.071;C
7744	chrY	9953255	.	A	T	19781.78	PASS	AC=28;AF=0.438;AN=64;BaseQRankSum=
7745	chrY	9953259	.	C	G	5832.05	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.736;C
7746	chrY	9953281	.	T	G	18884.11	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
7747	chrY	9953298	.	T	A	2852.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-5.540e
7748	chrY	9953320	.	A	G	5097.71	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.032;Cl
7749	chrY	9953323	.	C	T	3687.03	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.118;C
7750	chrY	9953327	.	T	A	5368.21	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.751;Cl
7751	chrY	9953336	.	G	A	12981.18	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
7752	chrY	9953344	.	G	C	39058.53	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=

7753	chrY	9953347	.	T	C	1891.25	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-4.503e+
7754	chrY	9953349	.	A	T	39127.56	PASS	AC=13;AF=0.271;AN=48;BaseQRankSum
7755	chrY	9953359	.	G	A	22223.07	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
7756	chrY	9953367	.	G	A	39113.46	PASS	AC=13;AF=0.361;AN=36;BaseQRankSum
7757	chrY	9953368	.	A	G	5659.33	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=-1.461e+
7758	chrY	9953381	.	C	T	25075.69	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
7759	chrY	9953388	.	A	G	41219	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=0.740;C
7760	chrY	9953398	.	C	G	26755.38	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum
7761	chrY	9953401	.	A	C	1477.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.45;Cli
7762	chrY	9953418	.	C	G	5769.02	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.00;Cl
7763	chrY	9953423	.	T	A	456.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.530e+
7764	chrY	9953426	.	G	T	2408.33	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.259;C
7765	chrY	9953428	.	G	A	1616.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.790e-
7766	chrY	9953429	.	C	T	494.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.900e-
7767	chrY	9953433	.	C	T	1695.63	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.700e-
7768	chrY	9953437	.	A	C	21928.88	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
7769	chrY	9953463	.	A	T	73347.96	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
7770	chrY	9953467	.	C	G	64486.01	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
7771	chrY	9953471	.	G	T	66124.62	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
7772	chrY	9953478	.	C	G	723.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7773	chrY	9953492	.	T	G	57841.09	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7774	chrY	9953493	.	C	T	981.46	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.783;Cl
7775	chrY	9953494	.	C	T	901.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7776	chrY	9953495	.	C	G	143.60	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7777	chrY	9953496	.	C	T	34139.25	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
7778	chrY	9953503	.	T	C	107.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7779	chrY	9953504	.	T	C	17410.61	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7780	chrY	9953513	.	G	T	32370.76	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
7781	chrY	9953527	.	G	A	2551.26	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
7782	chrY	9953536	.	G	C	109.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7783	chrY	9953538	.	T	C	1383.03	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-3.530e-
7784	chrY	9953543	.	C	T	3683.40	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
7785	chrY	9953564	.	C	T	139486.66	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
7786	chrY	9953568	.	A	C	140696.91	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
7787	chrY	9953579	.	T	C	143738.79	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
7788	chrY	9953582	.	C	T	2049.16	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7789	chrY	9953587	.	A	G	7033.23	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.548;C
7790	chrY	9953589	.	A	G,C	136709.41	PASS	AC=34,6;AF=0.486,0.086;AN=70;Base
7791	chrY	9953601	.	A	G	86786.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
7792	chrY	9953602	.	C	G	2231.42	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
7793	chrY	9953607	.	T	A	18542.04	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
7794	chrY	9953614	.	C	T	122952.56	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
7795	chrY	9953616	.	C	A	19820.48	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7796	chrY	9953622	.	G	A	11562.47	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
7797	chrY	9953637	.	A	T	465.70	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
7798	chrY	9953647	.	A	G	18458.86	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
7799	chrY	9953650	.	A	T	152797.39	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum
7800	chrY	9953658	.	A	G	12104.96	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
7801	chrY	9953668	.	C	A	10761.02	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
7802	chrY	9953669	.	T	C	156068.01	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
7803	chrY	9953674	.	C	T	12493.76	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
7804	chrY	9953681	.	C	A	11191.08	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
7805	chrY	9953691	.	G	C	154690.10	PASS	AC=43;AF=0.614;AN=70;BaseQRankSum
7806	chrY	9953705	.	T	G	17746.93	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
7807	chrY	9953749	.	A	C	151847.41	PASS	AC=42;AF=0.656;AN=64;BaseQRankSum
7808	chrY	9953771	.	C	T	149484.12	PASS	AC=39;AF=0.609;AN=64;BaseQRankSum
7809	chrY	9953780	.	G	A	30524.85	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum
7810	chrY	9953788	.	A	G	136588.16	PASS	AC=36;AF=0.563;AN=64;BaseQRankSum
7811	chrY	9953789	.	T	C	128562.73	PASS	AC=36;AF=0.563;AN=64;BaseQRankSum
7812	chrY	9953801	.	G	C	4618.26	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.770e
7813	chrY	9953803	.	G	A	22485.05	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum
7814	chrY	9953805	.	T	C	384.70	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
7815	chrY	9953816	.	A	T	7900.24	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.461;C
7816	chrY	9953829	.	A	G	8641.32	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-2.154e
7817	chrY	9953833	.	T	G	81087.53	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum
7818	chrY	9953844	.	G	T	8569.24	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.158;C
7819	chrY	9953855	.	A	G	8187.72	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=2.22;Cl
7820	chrY	9953868	.	G	A	11295.04	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
7821	chrY	9953869	.	T	C	347.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
7822	chrY	9953874	.	G	T,A	8640.10	PASS	AC=9,2;AF=0.129,0.029;AN=70;BaseQRankSum
7823	chrY	9953884	.	T	C	55338.80	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum
7824	chrY	9953885	.	G	T	55371.81	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum
7825	chrY	9953893	.	G	A	53678.92	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
7826	chrY	9953898	.	G	T	9874.21	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-3.745e
7827	chrY	9953903	.	T	G	693.22	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum
7828	chrY	9953907	.	T	G	51145.84	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum

7829	chrY	9953908	.	G	C	17575.69	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
7830	chrY	9953910	.	C	T	12205.68	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum
7831	chrY	9953911	.	G	A	9199.15	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=1.18;Cli
7832	chrY	9953951	.	A	T	66982.98	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum
7833	chrY	9953956	.	C	G	3073.96	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.198;C
7834	chrY	9953960	.	A	G	66004.39	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum
7835	chrY	9953962	.	T	A,C	4634.98	PASS	AC=11,10;AF=0.157,0.143;AN=70;BaseQRankSu
7836	chrY	9953969	.	T	C	8873.13	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.102e
7837	chrY	9953986	.	G	T	26894.35	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
7838	chrY	9953993	.	C	T	55957.59	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum
7839	chrY	9954009	.	C	T	16128.13	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
7840	chrY	9954013	.	G	C,T	504.71	my_snp_filter	AC=7,3;AF=0.100,0.043;AN=70;BaseQ
7841	chrY	9954021	.	G	T	53312.69	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum
7842	chrY	9954028	.	G	T	44083.66	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum
7843	chrY	9954043	.	A	G	11342.08	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
7844	chrY	9954048	.	C	T	53503.76	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum
7845	chrY	9954051	.	G	A	4698.41	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.29;Cl
7846	chrY	9954052	.	G	T	11227.43	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
7847	chrY	9954053	.	G	T	4005.01	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.490;C
7848	chrY	9954070	.	A	G,*	16788.63	PASS	AC=14,1;AF=0.212,0.015;AN=66;Base
7849	chrY	9954087	.	T	G	12970.05	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum
7850	chrY	9954095	.	G	A	2529.17	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.751;C
7851	chrY	9954099	.	C	A	16940.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
7852	chrY	9954102	.	G	T	8529.80	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.158;C
7853	chrY	9954107	.	C	T	42.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7854	chrY	9954123	.	T	C	54170.61	PASS	AC=26;AF=0.481;AN=54;BaseQRankSum
7855	chrY	9954130	.	G	A	45.57	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=1.32;Cli
7856	chrY	9954131	.	T	A	882.60	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQRankSum=
7857	chrY	9954134	.	C	T	56838.05	PASS	AC=27;AF=0.519;AN=52;BaseQRankSum
7858	chrY	9954143	.	A	C	56.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.290e-
7859	chrY	9954179	.	A	C	5144.50	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-6.230e
7860	chrY	9954197	.	T	A	53796.72	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum
7861	chrY	9954198	.	G	C	5805.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.320e
7862	chrY	9954208	.	T	C	2222.51	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.116;C
7863	chrY	9954210	.	T	A	5634.68	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.869e
7864	chrY	9954222	.	A	G	5257.20	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-5.163e
7865	chrY	9954228	.	C	T	3611.56	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-9.590e
7866	chrY	9954233	.	C	A	37647.91	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum
7867	chrY	9954235	.	C	A	37244.95	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum
7868	chrY	9954236	.	G	T	36643.95	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum
7869	chrY	9954238	.	A	C	5285.32	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.757e
7870	chrY	9954243	.	C	G	197.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.00;Cli
7871	chrY	9954247	.	T	C	5009.84	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.382;C
7872	chrY	9954258	.	C	A	2045.12	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.08;Cli
7873	chrY	9954265	.	A	T	4511.61	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-4.110e
7874	chrY	9954269	.	C	T	31011.94	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum
7875	chrY	9954273	.	G	T	631.54	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.067;Cl
7876	chrY	9954279	.	T	C	30381.15	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum
7877	chrY	9954280	.	C	A,T	4677.13	PASS	AC=10,5;AF=0.156,0.078;AN=64;BaseQRankSum
7878	chrY	9954289	.	G	A	1241.72	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.731;C
7879	chrY	9954304	.	C	T	60.31	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
7880	chrY	9954322	.	C	G,A	28124.61	PASS	AC=29,3;AF=0.414,0.043;AN=70;Base
7881	chrY	9954335	.	A	G	2552.37	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.092;C
7882	chrY	9954364	.	T	A	211.24	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7883	chrY	9954366	.	G	A	3985.18	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.00;Cl
7884	chrY	9954377	.	A	G	32492.59	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum
7885	chrY	9954383	.	C	T	107.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7886	chrY	9954386	.	C	A	191.35	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
7887	chrY	9954392	.	C	T	5123.63	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.900e
7888	chrY	9954407	.	G	A	36389.73	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum
7889	chrY	9954416	.	G	C	533.33	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
7890	chrY	9954418	.	A	G	369.89	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
7891	chrY	9954435	.	G	A	3651.20	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-5.620e
7892	chrY	9954436	.	C	A	606.53	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.540e
7893	chrY	9954438	.	T	C	2820.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=2.11;Cl
7894	chrY	9954443	.	C	A,T	787.63	my_snp_filter	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
7895	chrY	9954472	.	G	A	1000.02	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.130e-
7896	chrY	9954479	.	A	G	5983.30	my_snp_filter	AC=10;AF=0.500;AN=20;BaseQRankSum
7897	chrY	9954481	.	A	T	896.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-7.960e-
7898	chrY	9954491	.	C	T	139.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7899	chrY	9954500	.	G	C	3518.50	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQRankSum=
7900	chrY	9954513	.	C	T	1764.41	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQRankSum=
7901	chrY	9954517	.	A	G	954.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.66;Cli
7902	chrY	9954526	.	T	G	743.99	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=0.020;Cl
7903	chrY	9954692	.	T	G	318.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.648;Cl
7904	chrY	9954696	.	A	G	440.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.45;Cli

7905	chrY	9954700	.	G	A	482.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.01;Cli
7906	chrY	9954701	.	G	A	482.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.990;Cl
7907	chrY	9954750	.	T	G	5638.95	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.857;C
7908	chrY	9954751	.	G	A	5663.81	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.26;Cl
7909	chrY	9954759	.	C	T	4063.28	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.760e
7910	chrY	9954766	.	G	C	7645.77	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.935e
7911	chrY	9954775	.	A	C	7538.80	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=8.000e-
7912	chrY	9954778	.	T	A	7871.05	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=0.945;C
7913	chrY	9954828	.	T	C	44.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
7914	chrY	9954831	.	A	G	33.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.198;Cl
7915	chrY	9954840	.	G	A	34.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.922;Cl
7916	chrY	9954841	.	A	C	3769.85	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.666e-
7917	chrY	9954843	.	C	T	31.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.198;Cl
7918	chrY	9954849	.	A	G	41.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.720;Cl
7919	chrY	9954859	.	T	C	7089.95	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQRankSum=
7920	chrY	9954862	.	T	G	361.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.700e-
7921	chrY	9954866	.	G	C	7209.57	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum=
7922	chrY	9954880	.	A	G	294.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.23;Cli
7923	chrY	9954899	.	A	T	32.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e-
7924	chrY	9954914	.	A	G,C	2230.06	my_snp_filter	AC=8,12;AF=0.118,0.176;AN=68;Base
7925	chrY	9954946	.	T	C	7982.53	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-3.700e-
7926	chrY	9954955	.	G	A	2074.89	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.711;C
7927	chrY	9954956	.	G	A	100.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.741;Cl
7928	chrY	9954960	.	T	C	130.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.754;Cl
7929	chrY	9954963	.	T	C	130.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.470e-
7930	chrY	9954966	.	T	G	10805.41	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
7931	chrY	9954979	.	G	A	72.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.080e-
7932	chrY	9954983	.	G	C	12877.95	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
7933	chrY	9954998	.	G	T	19730.87	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
7934	chrY	9955005	.	G	T	262.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.227;Cl
7935	chrY	9955014	.	C	T	3040.85	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.40;Cl
7936	chrY	9955035	.	G	C	2091.59	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.230;C
7937	chrY	9955045	.	C	A	3268.61	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.44;Cl
7938	chrY	9955051	.	T	G	2366.03	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-5.560e
7939	chrY	9955053	.	G	C	229.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.102;Cl
7940	chrY	9955054	.	G	A	8125.24	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=0.648;C
7941	chrY	9955079	.	C	G	14559.84	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
7942	chrY	9955088	.	C	A	9048.70	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.910e
7943	chrY	9955104	.	G	A	11095.61	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
7944	chrY	9955116	.	C	T	956.67	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.510e-
7945	chrY	9955122	.	T	C	11146.25	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
7946	chrY	9955145	.	T	C	5925.19	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-5.200e
7947	chrY	9955147	.	A	C,G	7212.67	PASS	AC=11,6;AF=0.157,0.086;AN=70;BaseQRankSum
7948	chrY	9955148	.	A	G	2101.03	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.361;C
7949	chrY	9955149	.	C	T	2207.44	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.71;Cl
7950	chrY	9955161	.	T	C	1597.70	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.057;C
7951	chrY	9955177	.	G	A	5031.56	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.296;C
7952	chrY	9955186	.	A	G	1743.79	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.655e
7953	chrY	9955192	.	T	C	2947.65	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-1.790e
7954	chrY	9955193	.	T	G	1662.03	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-2.035e
7955	chrY	9955227	.	C	G	23207.46	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
7956	chrY	9955236	.	T	C	12533.13	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
7957	chrY	9955246	.	A	T	24774.04	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
7958	chrY	9955258	.	T	A	5072.43	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.036e
7959	chrY	9955274	.	T	C	7731.81	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=-3.700e
7960	chrY	9955277	.	T	A	1449.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.297;Cl
7961	chrY	9955278	.	T	C	49.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7962	chrY	9955300	.	G	A	13119.20	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
7963	chrY	9955310	.	G	C	94.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7964	chrY	9955314	.	A	G	262.83	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
7965	chrY	9955317	.	G	A	12904.67	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
7966	chrY	9955341	.	G	A	38.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
7967	chrY	9955342	.	T	C	48.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.578;Cl
7968	chrY	9955347	.	C	T	235.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
7969	chrY	9955350	.	C	A	383.44	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
7970	chrY	9955375	.	C	T	3950.59	my_snp_filter	AC=27;AF=0.386;AN=70;BaseQRankSum=
7971	chrY	9955388	.	A	T	120.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.397;Cl
7972	chrY	9955401	.	T	G	1447.47	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
7973	chrY	9955411	.	C	T	961.05	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
7974	chrY	9955432	.	A	C	310.09	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
7975	chrY	9955722	.	C	T	826.14	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
7976	chrY	9955748	.	A	G	33.76	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
7977	chrY	9955791	.	C	T	1317.52	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQRankSum=
7978	chrY	9955816	.	T	C	1068.98	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQRankSum=
7979	chrY	9955820	.	T	C	861.50	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQRankSum=
7980	chrY	9955822	.	C	G	875.46	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQRankSum=

7981	chrY	9955851	.	A	G	38.68	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=0.651;C
7982	chrY	9955863	.	A	G	144.88	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=-2.740e-
7983	chrY	9955906	.	T	A	38.16	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum=
7984	chrY	9955921	.	A	G	870.56	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=-2.155e+
7985	chrY	9955949	.	A	C	3517.31	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=-1.304e-
7986	chrY	9955962	.	C	T	261.14	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-5.960e-
7987	chrY	9955964	.	A	C	3439.22	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=0.736;C
7988	chrY	9955981	.	T	G	3933.55	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.198;C
7989	chrY	9956007	.	A	T	131.34	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7990	chrY	9956010	.	A	G	73.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
7991	chrY	9956020	.	C	A,*	5839.05	PASS	AC=12,12;AF=0.171,0.171;AN=70;BaseQRankSu
7992	chrY	9956022	.	C	T,*	6055.68	PASS	AC=12,12;AF=0.171,0.171;AN=70;BaseQRankSu
7993	chrY	9956039	.	G	A,T	1160.41	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQRankSum=
7994	chrY	9956049	.	T	C	7944.49	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.00;C
7995	chrY	9956050	.	A	C	76.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
7996	chrY	9956055	.	A	C	63.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.200e-
7997	chrY	9956079	.	T	G	4966.67	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=-2.200e-
7998	chrY	9956081	.	C	T	365.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-9.320e-
7999	chrY	9956086	.	A	G	5319.69	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=0.178;C
8000	chrY	9956087	.	C	A	1123.75	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.371;C
8001	chrY	9956089	.	G	A	3649.19	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=1.57;C
8002	chrY	9956097	.	T	C	221.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.417e+
8003	chrY	9956099	.	C	T	221.45	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.116;C
8004	chrY	9956109	.	C	A	1370.85	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.477;C
8005	chrY	9956125	.	C	T	435.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.130e-
8006	chrY	9956126	.	A	G	571.18	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.250e-
8007	chrY	9956129	.	T	G	6184.17	PASS	AC=19;AF=0.380;AN=50;BaseQRankSum=-7.200e-
8008	chrY	9956141	.	T	C	129.94	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.746e+
8009	chrY	9956149	.	G	A	4897.74	PASS	AC=15;AF=0.341;AN=44;BaseQRankSum=-7.370e-
8010	chrY	9956151	.	A	G	136.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.05;C
8011	chrY	9956153	.	T	C	4754.29	PASS	AC=14;AF=0.304;AN=46;BaseQRankSum=-3.260e-
8012	chrY	9956160	.	C	T	4559.27	PASS	AC=14;AF=0.318;AN=44;BaseQRankSum=0.00;C
8013	chrY	9956165	.	T	C	5087.11	PASS	AC=15;AF=0.326;AN=46;BaseQRankSum=0.566;C
8014	chrY	9956173	.	C	T	152.93	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=0.893;C
8015	chrY	9956176	.	G	C	155.37	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-1.733e+
8016	chrY	9956186	.	A	C	2866.46	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=-1.286e-
8017	chrY	9956188	.	C	T	271.51	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=0.037;C
8018	chrY	9956199	.	A	G	2128.46	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=-2.760e+
8019	chrY	9956202	.	G	C,*	1897.14	PASS	AC=4,4;AF=0.118,0.118;AN=34;BaseQRankSum=
8020	chrY	9956203	.	A	C	1924.77	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=-1.495e+
8021	chrY	9956214	.	T	C	2813.91	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=0.876;C
8022	chrY	9956228	.	G	A	2582.38	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=-1.095e+
8023	chrY	9956232	.	A	G	2882.22	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=-8.390e-
8024	chrY	9956233	.	C	A	107.11	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=-8.830e-
8025	chrY	9956236	.	G	C	105.39	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=2.37;C
8026	chrY	9956263	.	G	A	368.74	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=-1.086e+
8027	chrY	9956269	.	C	A	568.21	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-5.790e-
8028	chrY	9956272	.	C	T	567.98	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=1.22;C
8029	chrY	9956306	.	C	A	104.78	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.22;C
8030	chrY	9956308	.	A	G	104.12	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.731;C
8031	chrY	9956329	.	C	G	112.17	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=-7.310e-
8032	chrY	9956339	.	C	A	161.32	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=0.747;C
8033	chrY	9956357	.	C	T	401.35	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=0.937;C
8034	chrY	9956360	.	C	A	405.62	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=1.37;C
8035	chrY	9956395	.	A	G	163.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.750e-
8036	chrY	9956402	.	G	T,C	378.82	PASS	AC=4,6;AF=0.063,0.094;AN=64;BaseQRankSum=
8037	chrY	9956442	.	T	A	16130.30	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
8038	chrY	9956445	.	C	T	16245.16	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
8039	chrY	9956463	.	C	G	5449.40	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-6.700e-
8040	chrY	9956471	.	G	A	2910.73	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-1.120e+
8041	chrY	9956472	.	T	C	2965.63	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.445e+
8042	chrY	9956481	.	T	G	2853.04	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.231e-
8043	chrY	9956489	.	A	G	73.61	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8044	chrY	9956520	.	T	C	77.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.034e+
8045	chrY	9956521	.	G	T	76.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.248;C
8046	chrY	9956522	.	G	T	41.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.03;C
8047	chrY	9956533	.	C	T	11859.20	my_snp_filter	AC=10;AF=0.147;AN=68;Base
8048	chrY	9956548	.	G	A	228.21	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8049	chrY	9956573	.	A	C	4249.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-6.600e-
8050	chrY	9956575	.	T	A	14563.12	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
8051	chrY	9956584	.	T	C	15781.43	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
8052	chrY	9956585	.	G	A	16143.52	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
8053	chrY	9956592	.	C	G	794.74	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8054	chrY	9956601	.	T	C	7044	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
8055	chrY	9956605	.	G	A	20896.67	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
8056	chrY	9956608	.	C	G	21330.87	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ

8057	chrY	9956610	.	G	C	2769.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.458e+
8058	chrY	9956612	.	C	T	966.45	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8059	chrY	9956613	.	C	T	879.94	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8060	chrY	9956632	.	A	T	5069.11	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.777e+
8061	chrY	9956636	.	A	G	879.59	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
8062	chrY	9956640	.	T	C	5954.99	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=0.070;Cl
8063	chrY	9956658	.	C	T	1386.33	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=1.49;Cli
8064	chrY	9956665	.	C	T	30602.09	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
8065	chrY	9956678	.	A	G	6077.63	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.851e
8066	chrY	9956692	.	G	A	25160.90	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
8067	chrY	9956705	.	G	C	61304.68	PASS	AC=27;AF=0.482;AN=56;BaseQRankSum
8068	chrY	9956706	.	A	T	61507.68	PASS	AC=27;AF=0.482;AN=56;BaseQRankSum
8069	chrY	9956709	.	G	T	8056.46	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-2.781e
8070	chrY	9956720	.	T	C	4061.50	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.483e+
8071	chrY	9956726	.	G	A	19996.45	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum
8072	chrY	9956746	.	C	T	19569.80	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
8073	chrY	9956752	.	T	C	19414.18	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
8074	chrY	9956761	.	T	A	18631.95	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
8075	chrY	9956763	.	T	A	17652.20	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum
8076	chrY	9956771	.	T	C	3966.56	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=2.76;Cl
8077	chrY	9956780	.	G	A	51.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.44;Cl
8078	chrY	9956787	.	A	C	298.13	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.173;Cl
8079	chrY	9956790	.	T	C	55116.22	PASS	AC=25;AF=0.521;AN=48;BaseQRankSum
8080	chrY	9956791	.	G	A	54984.22	PASS	AC=25;AF=0.521;AN=48;BaseQRankSum
8081	chrY	9956795	.	C	A	28454.70	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
8082	chrY	9956805	.	G	C	2189.76	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
8083	chrY	9956819	.	C	T	298.14	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
8084	chrY	9956830	.	T	C	20258.58	PASS	AC=20;AF=0.625;AN=32;BaseQRankSum
8085	chrY	9956842	.	C	A	104.40	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8086	chrY	9956846	.	C	T,G	3763.68	PASS	AC=1,4;AF=0.017,0.069;AN=58;BaseQRankSum=
8087	chrY	9956862	.	A	C	3322.12	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=-1.264e+
8088	chrY	9956868	.	A	C	3281.85	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=-8.940e-
8089	chrY	9956869	.	T	C	325.83	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
8090	chrY	9956872	.	C	G	25867.56	PASS	AC=15;AF=0.536;AN=28;BaseQRankSum
8091	chrY	9956874	.	C	T	2655.07	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=1.03;Cli
8092	chrY	9956879	.	A	G	3525.04	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=-4.085e+
8093	chrY	9956897	.	G	A,*	4557.55	PASS	AC=3,5;AF=0.094,0.156;AN=32;BaseQRankSum=
8094	chrY	9956911	.	T	G	642.01	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=0.704;Cl
8095	chrY	9956915	.	C	T,*	3789.89	PASS	AC=2,2;AF=0.059,0.059;AN=34;BaseQRankSum=
8096	chrY	9956934	.	A	C	20610.22	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
8097	chrY	9956935	.	C	T	12260.43	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
8098	chrY	9956939	.	G	A,T	3815.31	PASS	AC=4,1;AF=0.100,0.025;AN=40;BaseQRankSum=
8099	chrY	9956940	.	T	C	652.73	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-1.325e+
8100	chrY	9956968	.	G	A	17571.28	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
8101	chrY	9956972	.	C	G	26675.34	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
8102	chrY	9956973	.	C	T	1093.22	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQRankSum=
8103	chrY	9956974	.	T	C	2097.03	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=1.30;Cli
8104	chrY	9956991	.	A	G	16613.82	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum
8105	chrY	9956996	.	G	A	16112.13	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum
8106	chrY	9956997	.	C	T	976.54	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=1.76;Cli
8107	chrY	9957006	.	T	C	9368	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=0.663;Cl
8108	chrY	9957026	.	T	C	704.76	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-2.362e+
8109	chrY	9957036	.	A	G	1082.78	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.918;Cl
8110	chrY	9957037	.	A	G	618.50	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.08;Cli
8111	chrY	9957060	.	A	G	32818.08	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum
8112	chrY	9957065	.	A	T	8028.37	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=2.00;Cl
8113	chrY	9957078	.	A	C	966.26	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8114	chrY	9957089	.	T	C	32378.74	my_snp_filter	AC=17;AF=0.243;AN=70;Base
8115	chrY	9957118	.	G	T	33952.78	my_snp_filter	AC=26;AF=0.406;AN=64;Base
8116	chrY	9957123	.	G	T	35993.51	PASS	AC=26;AF=0.448;AN=58;BaseQRankSum
8117	chrY	9957133	.	A	G	134.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.940e-
8118	chrY	9957145	.	C	T	9170.87	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=1.94;Cl
8119	chrY	9957171	.	G	C	10108.30	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8120	chrY	9957175	.	A	G	18591.65	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
8121	chrY	9957178	.	T	A	73.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8122	chrY	9957183	.	A	G	56308.25	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
8123	chrY	9957195	.	G	A	2772.57	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.042e
8124	chrY	9957209	.	C	T	6454.47	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-7.780e
8125	chrY	9957215	.	C	T	51550.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
8126	chrY	9957226	.	A	G	138.86	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8127	chrY	9957230	.	C	T	66.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8128	chrY	9957231	.	C	G	452.31	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8129	chrY	9957232	.	C	T	7425.20	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=-1.327e
8130	chrY	9957238	.	G	C,A	34021.73	PASS	AC=34,3;AF=0.486,0.043;AN=70;Base
8131	chrY	9957249	.	A	C	8812.27	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.053;C
8132	chrY	9957278	.	G	A	22366.68	my_snp_filter	AC=31;AF=0.470;AN=66;Base

8133	chrY	9957297	.	A	G	1276.04	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.919;C
8134	chrY	9957299	.	T	A	15044.79	my_snp_filter	AC=30;AF=0.455;AN=66;Base
8135	chrY	9957303	.	A	T	65.73	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8136	chrY	9957310	.	C	G	204.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.407;Cl
8137	chrY	9957319	.	A	T	568.56	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-4.670e-
8138	chrY	9957339	.	G	C	1126.46	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-2.800e-
8139	chrY	9957351	.	G	A	1023.43	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
8140	chrY	9957358	.	C	T	1056.32	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
8141	chrY	9957390	.	A	G	733.11	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=-6.510e-
8142	chrY	9957435	.	C	A	575.20	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=1.12;Cli
8143	chrY	9957439	.	T	G	641.70	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=-1.734e+
8144	chrY	9957449	.	T	G	771.92	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=0.619;Cl
8145	chrY	9957535	.	T	C	756.65	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.522;Cl
8146	chrY	9957543	.	C	A	151.95	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.070e-
8147	chrY	9957545	.	G	C	154.97	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.19;Cli
8148	chrY	9957564	.	T	C	330.55	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-5.220e-
8149	chrY	9957587	.	T	G	93.49	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8150	chrY	9957595	.	G	C	194.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.000e-
8151	chrY	9957676	.	A	C	1156.25	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8152	chrY	9957685	.	G	A	1316.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8153	chrY	9957708	.	A	G	1173.17	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-1.377e+
8154	chrY	9957730	.	C	G	5397.25	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQRankSum=
8155	chrY	9957754	.	A	C	6600.75	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQRankSum=
8156	chrY	9957760	.	T	A	6656.03	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQRankSum=
8157	chrY	9957766	.	C	T	57.51	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-6.890e-
8158	chrY	9957773	.	A	G	7932.94	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=-3.987e+
8159	chrY	9957782	.	T	A	8831.88	my_snp_filter	AC=9;AF=0.196;AN=46;BaseQRankSum=
8160	chrY	9957792	.	G	A	610.88	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=-2.200e-
8161	chrY	9957795	.	T	C	715.82	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=0.00;Cli
8162	chrY	9957802	.	T	C	8320.12	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=-2.345e+
8163	chrY	9957810	.	G	A	585	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=-2.300e-
8164	chrY	9957811	.	C	T	223.78	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=-8.000e-
8165	chrY	9957834	.	T	C	264.54	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQRankSum=
8166	chrY	9957848	.	T	A	17531.07	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum
8167	chrY	9957865	.	T	C	395.42	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-2.822e+
8168	chrY	9957867	.	G	T	4243.15	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-3.512e+
8169	chrY	9957871	.	G	A	589.01	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=0.013;Cl
8170	chrY	9957883	.	C	T	7597.62	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=-3.765e
8171	chrY	9957933	.	C	G	9228.64	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=4.17;Cl
8172	chrY	9957975	.	G	A	52.90	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.371e+
8173	chrY	9957976	.	T	C	51.82	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=-1.020e-
8174	chrY	9957979	.	A	C	57.95	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=-1.660e+
8175	chrY	9958019	.	A	G	33.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.667e+
8176	chrY	9958035	.	T	A	30.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.18;Cli
8177	chrY	9958039	.	G	A	30.58	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=1.59;Cli
8178	chrY	9958040	.	G	C	386.45	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=0.00;Cli
8179	chrY	9958044	.	G	A	31.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.07;Cli
8180	chrY	9958051	.	C	A	35.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.572;Cl
8181	chrY	9958069	.	T	A	545.01	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8182	chrY	9958083	.	A	G	10842.95	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
8183	chrY	9958090	.	C	T	21054.08	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum
8184	chrY	9958094	.	G	C,*	225.84	my_snp_filter	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
8185	chrY	9958095	.	A	C	117.56	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8186	chrY	9958104	.	A	G	3449.31	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-3.692e
8187	chrY	9958116	.	A	C	670.10	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
8188	chrY	9958119	.	T	A	31834.38	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum
8189	chrY	9958123	.	G	A	660.04	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
8190	chrY	9958152	.	A	G	84.41	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
8191	chrY	9958163	.	C	T	10296.52	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
8192	chrY	9958177	.	G	A	9575.07	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=1.11;Cl
8193	chrY	9958186	.	A	T	20833.37	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
8194	chrY	9958189	.	G	A	11345.87	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
8195	chrY	9958199	.	T	C	11716.32	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
8196	chrY	9958222	.	G	A	30581.29	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
8197	chrY	9958230	.	C	A	1111.60	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
8198	chrY	9958256	.	G	A	6281	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=2.87;Cli
8199	chrY	9958262	.	G	A	4054.78	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.960;C
8200	chrY	9958276	.	C	G	45869.85	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
8201	chrY	9958280	.	T	A	5056.97	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.04;Cli
8202	chrY	9958282	.	T	C,A	36145.66	PASS	AC=13,26;AF=0.186,0.371;AN=70;Bas
8203	chrY	9958291	.	C	A	4540.34	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=2.13;Cli
8204	chrY	9958303	.	A	G	3854.87	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.84;Cli
8205	chrY	9958308	.	G	A	18079.09	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8206	chrY	9958318	.	G	C	18102.02	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8207	chrY	9958320	.	G	A	18249.02	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8208	chrY	9958323	.	T	C	38023.52	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum

8209	chrY	9958340	.	A	T	18192.93	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
8210	chrY	9958345	.	G	T	17318.81	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8211	chrY	9958349	.	A	G	5768.69	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.278e
8212	chrY	9958358	.	C	G	449.12	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.817;Cl
8213	chrY	9958359	.	A	T	3741.50	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.324;C
8214	chrY	9958364	.	G	A	19410.88	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8215	chrY	9958371	.	A	C	31297.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8216	chrY	9958373	.	C	T	34019.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8217	chrY	9958396	.	G	C	70079.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
8218	chrY	9958400	.	A	G	27968.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8219	chrY	9958403	.	G	T	10340.58	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
8220	chrY	9958408	.	G	A	20206.32	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8221	chrY	9958413	.	C	T	8545.65	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-8.890e
8222	chrY	9958421	.	T	A	19855.34	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8223	chrY	9958452	.	A	T	4927.69	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-8.670e
8224	chrY	9958476	.	T	C	18175.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8225	chrY	9958526	.	C	A	12181.59	my_snp_filter	AC=32;AF=0.471;AN=68;Base
8226	chrY	9958538	.	C	T	303.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.023;Cl
8227	chrY	9958548	.	A	G	360.62	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
8228	chrY	9958558	.	G	A	2590.67	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum
8229	chrY	9958571	.	G	A	1122.18	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
8230	chrY	9958594	.	C	G	346.41	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8231	chrY	9958668	.	G	A	1494.71	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.80;Cli
8232	chrY	9958669	.	G	C	1494.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.288;Cl
8233	chrY	9958688	.	A	T	1285.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.14;Cli
8234	chrY	9958705	.	A	G	1280.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.22;Cli
8235	chrY	9958747	.	T	G	2847.81	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.204e+
8236	chrY	9958755	.	A	T	3143.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.072e+
8237	chrY	9958807	.	C	T	269.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.026;Cl
8238	chrY	9958823	.	C	A	534.51	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=2.20;Cli
8239	chrY	9958824	.	A	T	346.58	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=0.457;Cl
8240	chrY	9958828	.	G	A	1995.10	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-6.380e-
8241	chrY	9958839	.	A	T	4518.14	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
8242	chrY	9958858	.	T	A	1305.74	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=0.736;Cl
8243	chrY	9958871	.	T	G	1141.06	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=2.02;Cli
8244	chrY	9958903	.	T	G	12127.61	PASS	AC=19;AF=0.317;AN=60;BaseQRankSum
8245	chrY	9958905	.	A	T	671.83	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.70;Cli
8246	chrY	9958912	.	C	T	989.01	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.80;Cli
8247	chrY	9958913	.	T	G	998.99	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.29;Cli
8248	chrY	9958914	.	A	G	96.20	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8249	chrY	9958947	.	C	A,G	982.07	my_snp_filter	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
8250	chrY	9958952	.	A	T	89.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.358;Cl
8251	chrY	9958953	.	A	C	538.06	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8252	chrY	9958956	.	C	T	184.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-5.660e-
8253	chrY	9958960	.	A	T	10253.89	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
8254	chrY	9958964	.	A	G	25285.94	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum
8255	chrY	9958966	.	C	G	11136.73	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
8256	chrY	9958973	.	C	T	10909.19	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
8257	chrY	9958976	.	G	A	10119.45	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
8258	chrY	9958987	.	T	C	977.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-3.264e+
8259	chrY	9959008	.	G	A	8062.16	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.850e+
8260	chrY	9959012	.	C	T	2859.68	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.640e-
8261	chrY	9959020	.	A	G	17849.73	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum
8262	chrY	9959022	.	C	T	3020.75	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=1.72;Cl
8263	chrY	9959024	.	T	C	2765.10	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-2.936e+
8264	chrY	9959031	.	G	C	16955.56	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
8265	chrY	9959038	.	C	T	16916.02	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
8266	chrY	9959041	.	A	G	2995.44	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=-1.240e-
8267	chrY	9959046	.	C	A	848.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.32;Cli
8268	chrY	9959054	.	G	A	3659.53	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=0.205;Cl
8269	chrY	9959055	.	T	C	7415.37	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.562e+
8270	chrY	9959056	.	A	C	3624.07	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=0.080;Cl
8271	chrY	9959065	.	G	A	23056.85	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum
8272	chrY	9959086	.	G	T	3290.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.933;Cl
8273	chrY	9959107	.	G	A	2040.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.634;Cl
8274	chrY	9959108	.	G	T	269.20	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8275	chrY	9959116	.	G	A	230.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8276	chrY	9959148	.	A	G	897.04	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
8277	chrY	9959166	.	T	C	92550.45	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum
8278	chrY	9959175	.	G	A,T	17691.80	PASS	AC=28,3;AF=0.400,0.043;AN=70;Base
8279	chrY	9959177	.	C	G	3223.52	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
8280	chrY	9959178	.	C	T	16906.17	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
8281	chrY	9959179	.	C	T	70712.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8282	chrY	9959197	.	C	G	1618.43	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
8283	chrY	9959222	.	A	T	123.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8284	chrY	9959226	.	A	T	125.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=

8285	chrY	9959233	.	G	T	60.73	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8286	chrY	9959234	.	T	C	3049.38	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-2.650e
8287	chrY	9959235	.	T	C	5561.55	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.110e
8288	chrY	9959240	.	A	T	13514.13	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8289	chrY	9959244	.	G	A	2112.36	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.052e
8290	chrY	9959261	.	T	C	9192.14	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.392;C
8291	chrY	9959265	.	A	C	22375.88	my_snp_filter	AC=32;AF=0.457;AN=70;Base
8292	chrY	9959267	.	C	T,G	18725.77	my_snp_filter	AC=28,3;AF=0.400,0.043;AN
8293	chrY	9959271	.	T	C	19431.10	my_snp_filter	AC=31;AF=0.443;AN=70;Base
8294	chrY	9959276	.	G	T	7194.40	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=1.36;Cl
8295	chrY	9959300	.	G	A	747.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.358;Cl
8296	chrY	9959301	.	G	A	747.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.358;Cl
8297	chrY	9959306	.	C	A	52.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.109e+
8298	chrY	9959321	.	G	T	368.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.736;Cl
8299	chrY	9959326	.	T	A	49.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8300	chrY	9959332	.	C	T	440.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.20;Cli
8301	chrY	9959334	.	C	A	7118.31	my_snp_filter	AC=17;AF=0.250;AN=68;BaseQRankSum
8302	chrY	9959346	.	C	T	4147.73	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8303	chrY	9959350	.	A	G	7561.60	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQRankSum
8304	chrY	9959358	.	C	T	378.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.287;Cl
8305	chrY	9959374	.	A	G	10429.68	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
8306	chrY	9959382	.	G	A	11711.90	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
8307	chrY	9959388	.	A	C	7528.81	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.230e
8308	chrY	9959391	.	C	T	7662.97	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.18;Cl
8309	chrY	9959396	.	A	T	7794.82	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.521;C
8310	chrY	9959397	.	G	A	630.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.720e-
8311	chrY	9959401	.	C	G	2815.57	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.61;Cli
8312	chrY	9959411	.	A	C	3088.97	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.63;Cli
8313	chrY	9959423	.	G	A	275.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8314	chrY	9959425	.	G	T	12945.14	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
8315	chrY	9959459	.	T	G	14109.78	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
8316	chrY	9959486	.	T	C	93.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8317	chrY	9959490	.	C	T	3577.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-6.750e-
8318	chrY	9959496	.	A	G	2292.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.174e+
8319	chrY	9959503	.	A	G	22838.51	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
8320	chrY	9959506	.	T	C	2689.95	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.853e
8321	chrY	9959527	.	C	G	1333.55	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.186;Cl
8322	chrY	9959544	.	T	C	10577.92	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
8323	chrY	9959548	.	T	G	182.58	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8324	chrY	9959553	.	A	T	11691.47	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
8325	chrY	9959555	.	C	A	10665.42	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
8326	chrY	9959567	.	A	G	18097.66	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
8327	chrY	9959572	.	T	G	940.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.88;Cli
8328	chrY	9959574	.	G	A	8687.85	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=0.751;C
8329	chrY	9959584	.	C	T	445.21	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.387;Cl
8330	chrY	9959594	.	C	T	3296.75	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-9.220e
8331	chrY	9959618	.	A	G	6843.50	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQRankSum=
8332	chrY	9959619	.	C	T	601.17	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=-1.174e+
8333	chrY	9959621	.	A	G	6506.54	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQRankSum=
8334	chrY	9959625	.	G	A	2529.48	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=2.08;Cli
8335	chrY	9959656	.	C	T	421.84	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=-1.244e+
8336	chrY	9959658	.	A	G	1345.07	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=-1.722e+
8337	chrY	9959669	.	T	A	3706.45	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQRankSum=
8338	chrY	9959671	.	C	A	1398.56	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=-1.590e-
8339	chrY	9959673	.	C	T	499.69	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=-1.550e-
8340	chrY	9959685	.	G	A	5365.39	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=0.795;Cl
8341	chrY	9959686	.	G	T	186.27	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=1.48;Cli
8342	chrY	9959702	.	G	A,T	2124.06	PASS	AC=5,2;AF=0.167,0.067;AN=30;BaseQRankSum=
8343	chrY	9959706	.	G	A	783.66	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=1.96;Cli
8344	chrY	9959717	.	T	C	8423.05	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=-4.917e
8345	chrY	9959719	.	T	C	16879.05	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum
8346	chrY	9959721	.	T	G	1072.15	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=-1.990e-
8347	chrY	9959730	.	A	G	8632.74	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=0.819;C
8348	chrY	9959740	.	G	A	4028.10	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=0.167;Cl
8349	chrY	9959741	.	A	G	65.47	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQRankSum
8350	chrY	9959743	.	A	G	8555.36	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=0.438;Cl
8351	chrY	9959750	.	C	A	4055.10	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=0.384;Cl
8352	chrY	9959776	.	T	C,G	20140.36	PASS	AC=13,11;AF=0.464,0.393;AN=28;Bas
8353	chrY	9959791	.	A	G	23975.23	PASS	AC=15;AF=0.577;AN=26;BaseQRankSum
8354	chrY	9959798	.	T	G	4990.13	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=1.32;Cl
8355	chrY	9959800	.	G	C	3058.49	PASS	AC=11;AF=0.306;AN=36;BaseQRankSum=2.33;Cl
8356	chrY	9959801	.	T	C	97.62	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
8357	chrY	9959808	.	C	A	5112.03	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=-2.630e-
8358	chrY	9959820	.	G	T	4817.92	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=-8.510e-
8359	chrY	9959821	.	G	A,T	7683.10	PASS	AC=8,3;AF=0.308,0.115;AN=26;BaseQRankSum=
8360	chrY	9959829	.	G	A	6061.03	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=2.08;Cli

8361	chrY	9959849	.	A	G	2572.39	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=0.704;C
8362	chrY	9959853	.	A	G	3122.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=-3.142e+
8363	chrY	9959860	.	T	C	5300.22	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum=-3.700e
8364	chrY	9959898	.	A	G	707.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.24;Cli
8365	chrY	9959910	.	G	T	604.77	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-6.400e-
8366	chrY	9959921	.	C	A	8884.58	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=-2.620e-
8367	chrY	9959933	.	C	G	178.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-6.470e-
8368	chrY	9959938	.	C	T	8440.21	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=1.23;Cl
8369	chrY	9959955	.	C	T	7547.42	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.358;C
8370	chrY	9959966	.	C	T	7584.11	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.736;C
8371	chrY	9959996	.	T	G	80.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8372	chrY	9960011	.	G	T	3115.74	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-7.620e
8373	chrY	9960040	.	C	G	7851.82	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.742;C
8374	chrY	9960046	.	G	A	380.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.19;Cli
8375	chrY	9960050	.	C	T	7287.93	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-1.026e
8376	chrY	9960069	.	C	T	8223.26	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=2.77;Cl
8377	chrY	9960074	.	A	C	7045.63	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.540;C
8378	chrY	9960082	.	T	C	295.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.923;Cl
8379	chrY	9960083	.	G	T	296.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-9.080e-
8380	chrY	9960101	.	C	T	8846.15	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.496;C
8381	chrY	9960117	.	C	T	318.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.19;Cli
8382	chrY	9960119	.	G	C	214.10	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8383	chrY	9960121	.	G	A	7189.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-3.200e
8384	chrY	9960137	.	G	A	6730.44	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.372;C
8385	chrY	9960142	.	T	C	1148.78	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-6.660e
8386	chrY	9960177	.	C	A	2038.59	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.242;C
8387	chrY	9960202	.	C	T	132.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-5.980e-
8388	chrY	9960206	.	T	C	7370.19	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.633;C
8389	chrY	9960210	.	A	G	8032.64	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.558;C
8390	chrY	9960215	.	C	T	8522.37	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=-3.860e
8391	chrY	9960225	.	A	G	74.70	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8392	chrY	9960231	.	A	G	64.99	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8393	chrY	9960237	.	T	C	288.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-4.740e-
8394	chrY	9960245	.	G	A	2785.30	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.727;C
8395	chrY	9960251	.	A	T	30322.13	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
8396	chrY	9960254	.	G	T	32040.13	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
8397	chrY	9960257	.	A	C	8711.20	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.372;C
8398	chrY	9960258	.	A	C	10149.89	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
8399	chrY	9960259	.	C	A, T	6808.03	PASS	AC=21, 6;AF=0.300, 0.086;AN=70;BaseQRankSum
8400	chrY	9960267	.	A	C	281.26	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8401	chrY	9960313	.	C	A	21789.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
8402	chrY	9960341	.	G	A	12041.53	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
8403	chrY	9960350	.	C	A	16543.89	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
8404	chrY	9960353	.	T	A	3307.19	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-7.330e
8405	chrY	9960369	.	T	A	2950.66	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-3.980e
8406	chrY	9960373	.	A	G	385.29	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8407	chrY	9960378	.	G	A	14060.57	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
8408	chrY	9960379	.	C	G	3978.95	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-4.650e
8409	chrY	9960394	.	G	A	2837.52	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.061;C
8410	chrY	9960397	.	T	C	8720.08	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-9.450e-
8411	chrY	9960408	.	T	A	82.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.560e-
8412	chrY	9960419	.	C	A, G	15092.08	PASS	AC=18, 21;AF=0.257, 0.300;AN=70;Bas
8413	chrY	9960423	.	T	C	22873.79	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
8414	chrY	9960426	.	A	C	20963.86	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
8415	chrY	9960427	.	G	A	972.88	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.215;C
8416	chrY	9960430	.	T	G	6339.10	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-6.270e-
8417	chrY	9960462	.	A	T	881.75	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.252;Cl
8418	chrY	9960463	.	T	C	2213.90	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.740;C
8419	chrY	9960466	.	T	A	4375.56	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.790;C
8420	chrY	9960468	.	A	G	4369.56	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.212;C
8421	chrY	9960470	.	T	A	9150.16	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.144;C
8422	chrY	9960477	.	G	C	16851.68	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
8423	chrY	9960488	.	C	T	568.27	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.496;Cl
8424	chrY	9960500	.	G	C	8816.97	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.840e
8425	chrY	9960519	.	G	A	2104.87	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.366;C
8426	chrY	9960520	.	C	A	2102.25	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.412;C
8427	chrY	9960521	.	G	A	14536.94	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
8428	chrY	9960527	.	G	C	44.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8429	chrY	9960545	.	A	T	12461.05	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
8430	chrY	9960579	.	T	C	7325.51	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-2.750e
8431	chrY	9960608	.	A	C	121.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.97;Cli
8432	chrY	9960617	.	T	C	153.16	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
8433	chrY	9960621	.	T	G	3296.02	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.938e+
8434	chrY	9960631	.	G	A	2981.59	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.226;Cl
8435	chrY	9960633	.	C	T	3524.27	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.966;Cl
8436	chrY	9960642	.	A	C	1994.47	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.37;Cli

8437	chrY	9960720	.	G	A	1560.19	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
8438	chrY	9960733	.	T	C	366.64	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.938;C1
8439	chrY	9960734	.	G	A	367	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.08;Cli
8440	chrY	9960750	.	T	G	14047.21	my_snp_filter	AC=29;AF=0.414;AN=70;Base
8441	chrY	9960753	.	G	C	1498.63	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.804;C
8442	chrY	9960755	.	T	C	16914.98	my_snp_filter	AC=30;AF=0.429;AN=70;Base
8443	chrY	9960763	.	G	T	8724.19	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=1.03;C1
8444	chrY	9960765	.	T	C	20517.85	my_snp_filter	AC=32;AF=0.457;AN=70;Base
8445	chrY	9960835	.	A	C	62.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-2.739e+
8446	chrY	9960836	.	G	A	9893.78	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.085;C
8447	chrY	9960837	.	G	A	20923.43	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum
8448	chrY	9960838	.	G	A	687.45	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum
8449	chrY	9960843	.	A	T	822.39	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum
8450	chrY	9960846	.	C	A	912.05	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum
8451	chrY	9960854	.	A	T	76.76	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8452	chrY	9960858	.	T	C	5119.15	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-7.170e
8453	chrY	9960861	.	A	G	8360.69	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.255;C
8454	chrY	9960888	.	G	A	4410.05	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-5.870e
8455	chrY	9960910	.	A	G	498.58	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8456	chrY	9960913	.	G	T	7839.07	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-2.040e
8457	chrY	9960918	.	C	G,T	9102.51	PASS	AC=22,9;AF=0.314,0.129;AN=70;BaseQRankSum
8458	chrY	9960955	.	C	A	11419.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8459	chrY	9960964	.	T	C	3582.71	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.097;C
8460	chrY	9960976	.	G	A	15918.04	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8461	chrY	9960978	.	C	T	5598.59	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.516;C
8462	chrY	9960981	.	T	G	913.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.000e
8463	chrY	9960983	.	C	T	67886.77	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum
8464	chrY	9960993	.	G	C	7071.84	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-1.022e
8465	chrY	9960994	.	C	A	7107.57	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.148;C
8466	chrY	9961005	.	C	T	7918.94	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.079;C
8467	chrY	9961008	.	C	A	3199.51	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.020;C
8468	chrY	9961017	.	G	C	5089.67	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.711e+
8469	chrY	9961021	.	C	A	4179.45	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.241e
8470	chrY	9961025	.	A	G	63553.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8471	chrY	9961026	.	T	C,G	87858.54	PASS	AC=35,8;AF=0.500,0.114;AN=70;Base
8472	chrY	9961029	.	T	C	8244.33	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.099e
8473	chrY	9961047	.	C	T	283.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8474	chrY	9961048	.	A	T	1522.58	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-6.020e-
8475	chrY	9961049	.	G	T,C	11895.66	PASS	AC=11,19;AF=0.157,0.271;AN=70;Bas
8476	chrY	9961050	.	C	G	6951.58	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.82;C1
8477	chrY	9961051	.	T	G	114438.88	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8478	chrY	9961054	.	C	A	780.56	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8479	chrY	9961067	.	A	T	2089.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.910e
8480	chrY	9961072	.	C	A	94480.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8481	chrY	9961075	.	C	T	986.09	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8482	chrY	9961076	.	T	C	93484.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8483	chrY	9961077	.	A	T	139171.90	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
8484	chrY	9961079	.	T	G	847.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.069e+
8485	chrY	9961126	.	G	C	8256.65	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.780e
8486	chrY	9961127	.	G	T	8151.90	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.120e
8487	chrY	9961132	.	C	T	128457.87	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
8488	chrY	9961142	.	G	T	11274.47	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
8489	chrY	9961147	.	T	G	1500.82	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8490	chrY	9961151	.	T	C	683	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8491	chrY	9961152	.	T	A	678.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8492	chrY	9961155	.	T	C	11247.83	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
8493	chrY	9961156	.	C	A	11573.67	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
8494	chrY	9961157	.	G	A	2979.85	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum
8495	chrY	9961158	.	A	G	501.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8496	chrY	9961165	.	C	A	2434.15	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.500e
8497	chrY	9961177	.	C	T	13417.57	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
8498	chrY	9961178	.	A	G	141574.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8499	chrY	9961197	.	A	G	156755.06	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8500	chrY	9961199	.	T	G	69725.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8501	chrY	9961205	.	A	G	153812.85	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
8502	chrY	9961239	.	T	C	48382.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8503	chrY	9961254	.	A	G	200.60	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8504	chrY	9961264	.	A	T,C	109190.84	PASS	AC=35,26;AF=0.500,0.371;AN=70;Bas
8505	chrY	9961269	.	A	G	838.03	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8506	chrY	9961275	.	C	T	14473.11	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
8507	chrY	9961277	.	C	T	8755.61	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-4.360e
8508	chrY	9961284	.	C	T	788.17	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8509	chrY	9961289	.	A	G	14427.38	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
8510	chrY	9961295	.	T	A	95931.76	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8511	chrY	9961300	.	G	T	39639.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8512	chrY	9961301	.	G	A	13363.52	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum

8513	chrY	9961306	.	C	T	774.59	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8514	chrY	9961312	.	A	G	7674.88	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=0.559;C
8515	chrY	9961313	.	C	G	7600.03	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-9.710e
8516	chrY	9961325	.	A	G	9135.80	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-5.490e
8517	chrY	9961340	.	C	G	313.06	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8518	chrY	9961344	.	G	A	712.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.670e-
8519	chrY	9961351	.	T	C	15284.49	PASS	AC=18;AF=0.375;AN=48;BaseQRankSum
8520	chrY	9961357	.	C	A	323.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.596;Cl
8521	chrY	9961364	.	G	A	4733.43	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-1.569e+
8522	chrY	9961372	.	T	A	10790.56	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
8523	chrY	9961381	.	C	T	647.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.67;Cli
8524	chrY	9961384	.	G	C	2042.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.058;Cl
8525	chrY	9961387	.	C	T	3206.91	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-1.649e+
8526	chrY	9961392	.	T	G	1656.75	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-4.526e+
8527	chrY	9961408	.	A	G	3101.25	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-1.951e+
8528	chrY	9961460	.	G	C	14264.43	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum
8529	chrY	9961481	.	A	G	22924.24	PASS	AC=16;AF=0.500;AN=32;BaseQRankSum
8530	chrY	9961482	.	T	C	7180.27	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=-1.044e
8531	chrY	9961487	.	G	T	6785.97	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=3.21;Cl
8532	chrY	9961488	.	C	A	4575.20	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-8.600e
8533	chrY	9961491	.	T	C	158.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.456;Cl
8534	chrY	9961494	.	C	T	1745.69	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-2.215e
8535	chrY	9961515	.	C	T	412.68	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8536	chrY	9961541	.	T	C	2827.21	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-9.390e
8537	chrY	9961552	.	A	G	173.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.260e-
8538	chrY	9961559	.	A	T	1030.10	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-6.610e-
8539	chrY	9961565	.	G	A	10018.54	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
8540	chrY	9961570	.	A	G	12145.49	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8541	chrY	9961584	.	C	T	9683.97	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-7.000e
8542	chrY	9961585	.	T	A	9699.48	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.170e
8543	chrY	9961595	.	C	T	151.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8544	chrY	9961601	.	C	T	158.15	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8545	chrY	9961602	.	A	T	167.47	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8546	chrY	9961622	.	G	A	1677.98	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.072;C
8547	chrY	9961627	.	T	C	1344.62	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.86;Cl
8548	chrY	9961640	.	G	A	5356.97	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-2.480e
8549	chrY	9961650	.	T	C	12314.24	PASS	AC=23;AF=0.397;AN=58;BaseQRankSum
8550	chrY	9961659	.	G	A	3274.54	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.498;C
8551	chrY	9961660	.	A	T	94.46	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.736;Cl
8552	chrY	9961661	.	T	C	3524.41	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.089;C
8553	chrY	9961662	.	G	A	3230.05	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-1.400e
8554	chrY	9961666	.	C	T	6635.33	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=4.60;Cl
8555	chrY	9961669	.	T	A	9911.08	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.550;C
8556	chrY	9961673	.	G	T	1013.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.553;Cl
8557	chrY	9961680	.	G	C	9765.56	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=4.23;Cl
8558	chrY	9961684	.	C	T	9753.03	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-2.950e
8559	chrY	9961687	.	A	T	3112.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.02;Cli
8560	chrY	9961694	.	G	A	3176.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.390;Cl
8561	chrY	9961707	.	G	A	10990.86	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum
8562	chrY	9961767	.	G	A	116.52	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8563	chrY	9961769	.	C	G	117.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8564	chrY	9961773	.	T	C	10698.15	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
8565	chrY	9961787	.	A	G	1467.50	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.24;Cl
8566	chrY	9961809	.	A	T	7985.91	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=-1.750e
8567	chrY	9961828	.	T	A	5220.41	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQRankSum
8568	chrY	9961832	.	T	C	109.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8569	chrY	9961841	.	T	G	4297.38	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-5.420e-
8570	chrY	9961844	.	T	C	4044.47	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.170;Cl
8571	chrY	9961845	.	G	A	867.05	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-5.170e-
8572	chrY	9961852	.	T	G,A	2079.19	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQRankSum=
8573	chrY	9961856	.	T	C	136.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.423;Cl
8574	chrY	9961869	.	T	C	574.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.610e-
8575	chrY	9961884	.	A	G	407.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.735e+
8576	chrY	9961889	.	T	C	202.74	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-7.810e-
8577	chrY	9961938	.	A	G	1580.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.840;Cl
8578	chrY	9961941	.	C	T	1854.86	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.960e-
8579	chrY	9961951	.	T	C	1167.91	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.129e+
8580	chrY	9961953	.	A	G	2695.58	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.607;C
8581	chrY	9961958	.	G	T	2569.24	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.81;Cl
8582	chrY	9961969	.	G	A	2943.60	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-9.210e-
8583	chrY	9961984	.	A	T	7726.85	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-6.030e
8584	chrY	9961987	.	G	C	7858.43	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-9.250e
8585	chrY	9962001	.	G	A	449.82	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8586	chrY	9962022	.	C	A	8299.48	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-7.310e
8587	chrY	9962027	.	C	T	389.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.970e-
8588	chrY	9962028	.	T	C	1662.54	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.777;C

8589	chrY	9962031	.	C	A	216.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.536e+
8590	chrY	9962039	.	G	T	241.91	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8591	chrY	9962044	.	C	A	8090.16	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-5.600e
8592	chrY	9962045	.	A	G	11288.59	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
8593	chrY	9962052	.	A	G	8551.60	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-2.239e
8594	chrY	9962063	.	T	C	10996.46	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum
8595	chrY	9962064	.	G	A	2466.69	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.11;Cl
8596	chrY	9962083	.	A	T	2648.07	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-1.712e+
8597	chrY	9962084	.	C	G	5055.58	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=2.23;Cl
8598	chrY	9962085	.	G	T	2598.94	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=1.49;Cli
8599	chrY	9962099	.	T	A	1696	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-1.632e
8600	chrY	9962120	.	A	G	9936.02	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=0.379;Cl
8601	chrY	9962121	.	T	G	10482.28	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
8602	chrY	9962123	.	C	G	937.17	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=1.79;Cli
8603	chrY	9962129	.	C	T	44.59	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
8604	chrY	9962131	.	C	T	189.48	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-7.400e-
8605	chrY	9962133	.	G	C	186.40	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=0.430;Cl
8606	chrY	9962138	.	C	T,G	8026.31	PASS	AC=6,7;AF=0.107,0.125;AN=56;BaseQRankSum=
8607	chrY	9962143	.	G	A	3662.31	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-6.730e-
8608	chrY	9962147	.	T	A,C	7359.71	PASS	AC=7,3;AF=0.117,0.050;AN=60;BaseQRankSum=
8609	chrY	9962150	.	G	A	2004.82	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=3.39;Cli
8610	chrY	9962152	.	T	C	16793.90	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
8611	chrY	9962160	.	G	C	6847.04	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=-2.723e+
8612	chrY	9962169	.	T	G	4451.36	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=2.18;Cli
8613	chrY	9962175	.	T	G	4850.36	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.96;Cli
8614	chrY	9962180	.	T	C	226.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.546;Cl
8615	chrY	9962189	.	C	G,A	7906.89	PASS	AC=6,6;AF=0.088,0.088;AN=68;BaseQRankSum=
8616	chrY	9962195	.	C	G	219.40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=2.08;Cli
8617	chrY	9962207	.	A	T,G	1103.79	PASS	AC=4,5;AF=0.061,0.076;AN=66;BaseQRankSum=
8618	chrY	9962214	.	G	T	3984.54	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-5.720e
8619	chrY	9962215	.	T	G	11252.30	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
8620	chrY	9962218	.	T	C	1772.32	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.425e+
8621	chrY	9962229	.	A	T	1243.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.100e-
8622	chrY	9962232	.	A	G	1250.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.06;Cli
8623	chrY	9962239	.	T	C	4401.50	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.027e
8624	chrY	9962251	.	G	T	109.85	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8625	chrY	9962260	.	G	A	86.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8626	chrY	9962270	.	G	A	7659.57	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.49;Cli
8627	chrY	9962274	.	A	G	44.83	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8628	chrY	9962277	.	C	T	3266.21	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.756;Cl
8629	chrY	9962287	.	A	G	389.45	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-2.502e+
8630	chrY	9962289	.	G	A	2323.76	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-6.300e-
8631	chrY	9962292	.	C	A	127.08	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
8632	chrY	9962295	.	G	A	7076.40	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=0.256;Cl
8633	chrY	9962310	.	A	G	8249.42	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=0.409;Cl
8634	chrY	9962320	.	T	C	349.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.690e+
8635	chrY	9962327	.	T	C	8922.79	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.736;C
8636	chrY	9962341	.	A	T	9002.60	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=1.05;Cl
8637	chrY	9962356	.	C	G	1510.87	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.27;Cli
8638	chrY	9962358	.	G	A	6102.43	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.804;C
8639	chrY	9962394	.	A	G	1139.11	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
8640	chrY	9962395	.	A	T	11507.85	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
8641	chrY	9962397	.	A	G	24747.59	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
8642	chrY	9962406	.	C	T	14029.89	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
8643	chrY	9962420	.	A	G	18126.95	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum
8644	chrY	9962434	.	C	T	18425.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8645	chrY	9962442	.	A	G	18716.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8646	chrY	9962445	.	C	A	22672.07	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
8647	chrY	9962446	.	T	G	7380.86	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-4.250e
8648	chrY	9962451	.	T	C	49026	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=-6.510e
8649	chrY	9962498	.	C	A	2325.77	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-9.040e
8650	chrY	9962506	.	T	C	50608.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
8651	chrY	9962513	.	G	A	16714.15	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8652	chrY	9962518	.	C	T	41.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8653	chrY	9962521	.	C	T	150.30	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8654	chrY	9962524	.	T	G	17233.73	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
8655	chrY	9962531	.	A	T	43060.78	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
8656	chrY	9962532	.	A	C	42457.78	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
8657	chrY	9962542	.	A	G	1285.68	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8658	chrY	9962556	.	G	A	5880.04	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-4.210e
8659	chrY	9962562	.	A	G	5360.27	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-8.130e
8660	chrY	9962569	.	C	T	5616.15	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=2.48;Cl
8661	chrY	9962570	.	A	G	28836.65	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8662	chrY	9962580	.	T	G	26949.65	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8663	chrY	9962584	.	T	G	268.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8664	chrY	9962589	.	T	C	4015.43	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.09;Cl

8665	chrY	9962595	.	T	C	325.62	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8666	chrY	9962602	.	A	G	339.34	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8667	chrY	9962612	.	C	A	58.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8668	chrY	9962628	.	A	T	4698.34	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.270e
8669	chrY	9962643	.	C	T	5664.95	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.78;Cl
8670	chrY	9962644	.	C	T	16748.85	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
8671	chrY	9962646	.	G	A	5572.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=2.05;Cl
8672	chrY	9962654	.	A	T	7895.69	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=0.842;C
8673	chrY	9962655	.	G	A	390.74	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8674	chrY	9962665	.	T	C	7177.38	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=2.79;Cli
8675	chrY	9962669	.	T	C	8385.12	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=-2.589e
8676	chrY	9962672	.	C	T	8265.98	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=0.00;Cl
8677	chrY	9962676	.	C	T	7911.78	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=-2.800e
8678	chrY	9962677	.	C	A	5784.30	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.040e-
8679	chrY	9962678	.	G	A	7761.01	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=1.39;Cl
8680	chrY	9962681	.	G	C	147.53	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
8681	chrY	9962693	.	C	G	5728.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.743e+
8682	chrY	9962697	.	T	G	14101.62	my_snp_filter	AC=14;AF=0.200;AN=70;Base
8683	chrY	9962700	.	A	C	5622.22	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.66;Cli
8684	chrY	9962711	.	G	A	92.38	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8685	chrY	9962714	.	G	A	12595.98	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
8686	chrY	9962735	.	G	T	278.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8687	chrY	9962740	.	C	A	2777.63	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8688	chrY	9962743	.	C	T	298.84	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8689	chrY	9962749	.	A	G	1892.97	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.64;Cli
8690	chrY	9962761	.	G	A	6173.57	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=1.11;Cl
8691	chrY	9962780	.	G	T	4485.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.554;Cl
8692	chrY	9962790	.	C	T	794.32	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.346e+
8693	chrY	9962810	.	T	C	578.29	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.070e-
8694	chrY	9962817	.	T	G	305.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-3.060e-
8695	chrY	9962821	.	G	T	239.47	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.224;Cl
8696	chrY	9962826	.	G	C	72.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.980;Cl
8697	chrY	9962875	.	C	A	297.98	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.77;Cli
8698	chrY	9962877	.	C	A	300.05	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.45;Cli
8699	chrY	9962919	.	T	G	5130.20	my_snp_filter	AC=22;AF=0.333;AN=66;BaseQRankSum=
8700	chrY	9962924	.	A	G	117.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.615;Cl
8701	chrY	9962930	.	A	C	1445.43	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-3.650e
8702	chrY	9962936	.	C	T	109.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.628e+
8703	chrY	9962939	.	C	T	5693.17	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
8704	chrY	9962940	.	A	G	1279.48	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-7.360e
8705	chrY	9962941	.	T	C	5798.21	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
8706	chrY	9962943	.	T	C	2196.59	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.053;C
8707	chrY	9962958	.	C	T	170.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.135;Cl
8708	chrY	9962968	.	C	A	188.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.329e+
8709	chrY	9962970	.	A	T	75.04	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8710	chrY	9962974	.	C	G	10034.79	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
8711	chrY	9962986	.	A	G	14378.80	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
8712	chrY	9962991	.	A	G	809.79	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-6.700e
8713	chrY	9962993	.	G	A	13560.44	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
8714	chrY	9963002	.	C	T	16119.44	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
8715	chrY	9963015	.	A	G	432.89	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8716	chrY	9963018	.	G	A	12862.54	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
8717	chrY	9963029	.	T	C,A	12540.32	PASS	AC=4,22;AF=0.057,0.314;AN=70;Base
8718	chrY	9963082	.	A	G	18121.79	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
8719	chrY	9963088	.	G	A	18372.04	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
8720	chrY	9963096	.	C	T	3804.68	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-8.200e-
8721	chrY	9963099	.	T	G	4267.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.730e-
8722	chrY	9963106	.	G	T	4250.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.71;Cli
8723	chrY	9963115	.	G	T	2785.06	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.998;C
8724	chrY	9963129	.	G	A	12350.21	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
8725	chrY	9963130	.	G	T	6424.44	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.967;C
8726	chrY	9963136	.	G	T	13302.33	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
8727	chrY	9963148	.	A	G	23468.42	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
8728	chrY	9963155	.	G	A	23858.46	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
8729	chrY	9963156	.	C	G	7756.90	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.709;C
8730	chrY	9963161	.	A	C	13823.40	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
8731	chrY	9963163	.	C	T	13330.99	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
8732	chrY	9963175	.	T	A	22058.10	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
8733	chrY	9963199	.	A	G	540.06	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
8734	chrY	9963207	.	C	T	51.52	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8735	chrY	9963226	.	A	G	55.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8736	chrY	9963238	.	G	A	713.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.36;Cli
8737	chrY	9963240	.	G	A	133.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8738	chrY	9963248	.	T	G	447.94	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
8739	chrY	9963260	.	A	T	51.76	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
8740	chrY	9963266	.	G	A	60.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=

8741	chrY	9963276	.	G	A	14720.81	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
8742	chrY	9963279	.	A	T	60.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8743	chrY	9963286	.	T	A	2262.69	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.358;C
8744	chrY	9963287	.	T	A	2255.10	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.720;C
8745	chrY	9963303	.	C	A	10307.26	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
8746	chrY	9963318	.	T	A	2014.08	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-3.220e
8747	chrY	9963343	.	A	G	21080.91	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
8748	chrY	9963345	.	A	C	6143.03	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-4.700e
8749	chrY	9963346	.	A	T	129.63	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8750	chrY	9963356	.	C	T	112.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8751	chrY	9963389	.	C	A,T	4855.37	PASS	AC=27,2;AF=0.386,0.029;AN=70;BaseQRankSum
8752	chrY	9963409	.	C	T	8493.01	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-1.390e
8753	chrY	9963448	.	C	T	15129.46	my_snp_filter	AC=32;AF=0.457;AN=70;Base
8754	chrY	9963468	.	C	T	44.65	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=0.720;Cl
8755	chrY	9963472	.	G	T	42.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
8756	chrY	9963473	.	A	C	48.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.026e+
8757	chrY	9963477	.	A	C	8568.30	my_snp_filter	AC=25;AF=0.368;AN=68;BaseQRankSum
8758	chrY	9963500	.	T	C	4782.45	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQRankSum
8759	chrY	9963515	.	T	C	2543.43	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQRankSum
8760	chrY	9963517	.	C	G	1118.10	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.203e+
8761	chrY	9963526	.	C	A	1247.63	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-2.050e+
8762	chrY	9963527	.	A	G	1279.37	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.128;C
8763	chrY	9963530	.	C	T	2700.90	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
8764	chrY	9963707	.	T	C	37.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8765	chrY	9963724	.	C	T	285.53	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.248;Cl
8766	chrY	9963727	.	A	G	332.09	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.059e+
8767	chrY	9963732	.	G	T	582.97	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.350e-
8768	chrY	9963736	.	G	A	629.66	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.134;Cl
8769	chrY	9963746	.	G	T	723.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.08;Cli
8770	chrY	9963776	.	A	G	559	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.357e+
8771	chrY	9963786	.	C	T	184.28	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-5.370e-
8772	chrY	9963818	.	C	T	181.45	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
8773	chrY	9963826	.	C	T	45.63	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
8774	chrY	9963847	.	C	T	1315.61	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=-4.210e
8775	chrY	9963863	.	T	C	1918.73	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=0.231;C
8776	chrY	9963864	.	C	T	1916.32	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=-7.390e+
8777	chrY	9963883	.	C	T	724.99	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=2.05;Cli
8778	chrY	9963884	.	G	C	720.30	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.595;Cl
8779	chrY	9963889	.	A	G	517.78	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.851;Cl
8780	chrY	9963895	.	G	A	386.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.04;Cli
8781	chrY	9963921	.	A	C	1217.02	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-9.490e-
8782	chrY	9963929	.	A	G	1422.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8783	chrY	9963939	.	G	T	2668.28	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8784	chrY	9963941	.	T	A	2508.54	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8785	chrY	9963946	.	A	G	1666.89	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8786	chrY	9963959	.	T	G	3604.61	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8787	chrY	9963962	.	T	G	3401.42	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
8788	chrY	9963987	.	G	A	3753.92	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8789	chrY	9963991	.	A	C	4797.33	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
8790	chrY	9963993	.	T	A	707.35	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8791	chrY	9964000	.	T	A	5171.96	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8792	chrY	9964001	.	C	A	5217.81	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8793	chrY	9964011	.	A	T	5411.10	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
8794	chrY	9964017	.	C	A	102.95	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8795	chrY	9964021	.	A	T	205.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.540e-
8796	chrY	9964026	.	A	G	194.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.468e+
8797	chrY	9964027	.	C	A	1528.60	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-1.206e
8798	chrY	9964032	.	T	C	197.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-9.870e-
8799	chrY	9964033	.	G	C	195.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.615;Cl
8800	chrY	9964034	.	T	C	1617.78	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-2.558e+
8801	chrY	9964038	.	T	C	1079.91	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.19;Cl
8802	chrY	9964061	.	C	G	1822.93	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-3.860e
8803	chrY	9964072	.	A	G	12592.40	my_snp_filter	AC=30;AF=0.429;AN=70;Base
8804	chrY	9964078	.	C	T	33.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8805	chrY	9964081	.	T	A	1997.12	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.743e
8806	chrY	9964089	.	T	C	9990.38	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum
8807	chrY	9964094	.	C	T	13110.74	my_snp_filter	AC=32;AF=0.457;AN=70;Base
8808	chrY	9964105	.	C	T	2409.88	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=1.96;Cl
8809	chrY	9964117	.	G	T	6440.16	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-3.010e
8810	chrY	9964126	.	A	G	2905.99	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.264;C
8811	chrY	9964135	.	G	A	1206.11	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.851;Cl
8812	chrY	9964141	.	A	C	11805.14	my_snp_filter	AC=28;AF=0.400;AN=70;Base
8813	chrY	9964142	.	A	G	5755.63	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.006e
8814	chrY	9964165	.	C	T,*	3750.84	PASS	AC=13,10;AF=0.186,0.143;AN=70;BaseQRankSu
8815	chrY	9964171	.	G	C	900.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.358e+
8816	chrY	9964180	.	G	C	950.05	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.651;C

8817	chrY	9964207	.	G	A	21079.19	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
8818	chrY	9964214	.	A	T	2352.25	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-9.730e
8819	chrY	9964215	.	A	T,G	22714.24	PASS	AC=28,3;AF=0.400,0.043;AN=70;Base
8820	chrY	9964218	.	A	T	1328.77	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.231;C
8821	chrY	9964228	.	G	C	19659.48	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
8822	chrY	9964231	.	C	T	923.27	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8823	chrY	9964234	.	T	C	422.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-6.320e-
8824	chrY	9964239	.	T	A	2897.80	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.182e
8825	chrY	9964242	.	A	G	426.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.037;Cl
8826	chrY	9964243	.	C	T	3819.31	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.00;Cl
8827	chrY	9964246	.	C	G	92.01	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
8828	chrY	9964252	.	G	A	138.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-9.530e-
8829	chrY	9964281	.	G	A	1408.68	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
8830	chrY	9964284	.	C	A	1211.28	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
8831	chrY	9964297	.	G	A	114.60	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.740e-
8832	chrY	9964302	.	C	T	8915.63	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=1.38;Cl
8833	chrY	9964303	.	G	A	819.90	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
8834	chrY	9964316	.	C	T	484.44	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8835	chrY	9964319	.	C	T	4753.78	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=-1.473e
8836	chrY	9964325	.	A	G	16248.24	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum
8837	chrY	9964352	.	G	A	16464.81	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum
8838	chrY	9964353	.	A	C	124.55	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQRankSum=
8839	chrY	9964371	.	C	T	204.87	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
8840	chrY	9964373	.	G	T	16297.43	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum
8841	chrY	9964409	.	T	C	525.22	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=1.49;Cli
8842	chrY	9964416	.	A	T	5414.62	my_snp_filter	AC=9;AF=0.155;AN=58;BaseQRankSum=
8843	chrY	9964424	.	G	T	652.35	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=1.38;Cli
8844	chrY	9964438	.	T	G	59.96	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.95;Cli
8845	chrY	9964439	.	A	G	59.53	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=1.74;Cli
8846	chrY	9964443	.	C	T	72.92	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=0.582;Cl
8847	chrY	9964448	.	T	A	7080.68	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQRankSum
8848	chrY	9964456	.	C	G	2874.62	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
8849	chrY	9964469	.	C	T	571.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-9.100e-
8850	chrY	9964480	.	A	C	79.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-9.690e-
8851	chrY	9964488	.	C	G	63.75	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8852	chrY	9964498	.	C	A	13318.82	my_snp_filter	AC=20;AF=0.294;AN=68;Base
8853	chrY	9964499	.	G	A	368.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.75;Cli
8854	chrY	9964504	.	G	C	136.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.450e-
8855	chrY	9964509	.	G	T	42.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8856	chrY	9964513	.	G	A	125.20	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
8857	chrY	9964517	.	C	G	12573.91	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
8858	chrY	9964518	.	C	T	905.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-5.700e-
8859	chrY	9964519	.	T	G	256.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.123e+
8860	chrY	9964523	.	A	G	243.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.39;Cli
8861	chrY	9964524	.	G	A	35.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8862	chrY	9964551	.	C	A,G	8765.22	PASS	AC=6,16;AF=0.086,0.229;AN=70;BaseQRankSum
8863	chrY	9964553	.	C	A	1287.16	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-2.020e-
8864	chrY	9964564	.	G	C	19647.97	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
8865	chrY	9964566	.	A	C	2684.88	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.824;C
8866	chrY	9964582	.	C	A	2547.79	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.631;C
8867	chrY	9964584	.	G	A	2001.60	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.762;C
8868	chrY	9964586	.	T	G	17298.64	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum
8869	chrY	9964587	.	G	A	1290.71	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=0.382;C
8870	chrY	9964591	.	C	T	1320.86	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.517;C
8871	chrY	9964597	.	A	G	18357.24	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum
8872	chrY	9964608	.	T	C	6065.71	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=0.00;Cl
8873	chrY	9964611	.	A	T	3863.21	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-7.300e
8874	chrY	9964625	.	A	G	58.62	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
8875	chrY	9964633	.	G	A	2667.97	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-5.880e
8876	chrY	9964662	.	G	A	4320.47	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-8.000e
8877	chrY	9964672	.	G	T	4633.91	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-7.910e
8878	chrY	9964683	.	T	C	4497.93	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-1.050e
8879	chrY	9964692	.	T	C,G	29868.26	PASS	AC=27,29;AF=0.386,0.414;AN=70;Bas
8880	chrY	9964698	.	A	T	8128.94	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-8.340e
8881	chrY	9964722	.	C	T	5398.43	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.263e
8882	chrY	9964758	.	G	T	15417.62	PASS	AC=29;AF=0.468;AN=62;BaseQRankSum
8883	chrY	9964760	.	G	A	15392.62	PASS	AC=29;AF=0.468;AN=62;BaseQRankSum
8884	chrY	9964767	.	T	C	2140.55	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.855;C
8885	chrY	9964772	.	T	C	4757.28	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.752;C
8886	chrY	9964774	.	A	G	1090.06	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.377;C
8887	chrY	9964776	.	G	C	1349.18	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-1.793e
8888	chrY	9964784	.	G	C	3838.39	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.079;C
8889	chrY	9964791	.	G	A	2961.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.981;Cl
8890	chrY	9964802	.	A	G	998.02	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.48;Cli
8891	chrY	9964808	.	A	C	751.28	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-6.150e-
8892	chrY	9964884	.	G	T	243.45	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=0.804;Cl

8893	chrY	9964911	.	T	G	3640.16	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=-2.260e
8894	chrY	9964912	.	T	G	3791.16	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=0.537;C
8895	chrY	9964922	.	T	C	1210.31	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.083;Cl
8896	chrY	9964928	.	G	A	1030.04	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.980e-
8897	chrY	9964941	.	C	T	1287.53	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=1.23;Cli
8898	chrY	9964942	.	C	T	8528.59	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=0.742;C
8899	chrY	9964956	.	A	G	1703.93	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.731;C
8900	chrY	9964967	.	G	A,C	1415.58	PASS	AC=12,12;AF=0.171,0.171;AN=70;BaseQRankSu
8901	chrY	9964985	.	G	T	31.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8902	chrY	9964994	.	C	A	4605.49	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-2.890e
8903	chrY	9965004	.	T	C	564.94	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-4.530e
8904	chrY	9965009	.	A	C	4745.02	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-7.110e
8905	chrY	9965029	.	G	T	373.34	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8906	chrY	9965044	.	A	T	340.36	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
8907	chrY	9965046	.	A	T	12227.27	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8908	chrY	9965055	.	G	T	6633.65	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-3.600e
8909	chrY	9965062	.	T	A	568.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-4.330e-
8910	chrY	9965072	.	G	A	675.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-4.700e-
8911	chrY	9965080	.	T	C,A	11568.70	PASS	AC=25,10;AF=0.357,0.143;AN=70;Bas
8912	chrY	9965095	.	C	G	1918.48	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-9.510e
8913	chrY	9965098	.	A	G	6538.47	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.529;C
8914	chrY	9965108	.	A	G	12231.69	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
8915	chrY	9965114	.	A	C	1253.93	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.642;C
8916	chrY	9965116	.	G	T	1320.43	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.898;C
8917	chrY	9965131	.	A	T,G	5570.42	PASS	AC=25,4;AF=0.368,0.059;AN=68;BaseQRankSum
8918	chrY	9965169	.	C	G	11769.05	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
8919	chrY	9965172	.	C	T	1807.66	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.50;Cl
8920	chrY	9965173	.	T	G	1807.36	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.21;Cl
8921	chrY	9965212	.	T	C	59.86	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8922	chrY	9965224	.	G	A	4080.80	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=5.43;Cl
8923	chrY	9965245	.	G	A	13227.26	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
8924	chrY	9965249	.	T	C,*	7162.13	PASS	AC=9,19;AF=0.129,0.271;AN=70;BaseQRankSum
8925	chrY	9965251	.	T	A	12926.87	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
8926	chrY	9965260	.	T	C	1066.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.40;Cli
8927	chrY	9965278	.	A	G	11755.14	my_snp_filter	AC=25;AF=0.357;AN=70;Base
8928	chrY	9965282	.	C	T	11325.01	my_snp_filter	AC=24;AF=0.343;AN=70;Base
8929	chrY	9965284	.	G	A	822.73	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.231e+
8930	chrY	9965286	.	C	A	825.69	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.252e+
8931	chrY	9965291	.	G	T	548.69	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8932	chrY	9965315	.	G	C,T	2866.52	my_snp_filter	AC=8,8;AF=0.114,0.114;AN=70;BaseQ
8933	chrY	9965316	.	A	G	3431.11	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
8934	chrY	9965342	.	T	C	39.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
8935	chrY	9965351	.	G	A	650.16	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8936	chrY	9965352	.	C	T	649.75	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
8937	chrY	9965391	.	A	C	46.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-5.940e-
8938	chrY	9965468	.	A	T	52.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.200e-
8939	chrY	9965471	.	T	C	91.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.531e+
8940	chrY	9965483	.	A	G	145.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.822;Cl
8941	chrY	9965484	.	A	G	142.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.650e-
8942	chrY	9965500	.	A	G	583.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.06;Cli
8943	chrY	9965507	.	A	G	762.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.048e+
8944	chrY	9965515	.	T	C	534.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8945	chrY	9965521	.	A	G	87.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.550;Cl
8946	chrY	9965538	.	C	A	103.27	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
8947	chrY	9965541	.	G	T	2002.39	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
8948	chrY	9965543	.	T	C	3163	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-4.210e
8949	chrY	9965556	.	A	C	1984.92	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-9.600e
8950	chrY	9965562	.	G	C	66.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.238e+
8951	chrY	9965570	.	C	A	3071.02	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
8952	chrY	9965571	.	C	T	237.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.386e+
8953	chrY	9965578	.	G	C,T	3590.33	PASS	AC=5,11;AF=0.071,0.157;AN=70;BaseQRankSum
8954	chrY	9965581	.	G	A	410.89	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8955	chrY	9965600	.	T	A	440.97	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-6.850e-
8956	chrY	9965607	.	C	G	357.49	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
8957	chrY	9965608	.	T	G	1014.82	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.197e
8958	chrY	9965614	.	T	A	6030.67	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.980e
8959	chrY	9965618	.	C	T	254.73	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
8960	chrY	9965619	.	T	A,C	452.56	my_snp_filter	AC=5,6;AF=0.071,0.086;AN=70;BaseQ
8961	chrY	9965624	.	A	T	4996.07	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum
8962	chrY	9965634	.	C	G,T	4262.70	my_snp_filter	AC=11,4;AF=0.157,0.057;AN=70;Base
8963	chrY	9965641	.	A	G	4828.73	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum
8964	chrY	9965673	.	A	G	4844.67	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
8965	chrY	9965677	.	A	T	4241.66	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8966	chrY	9965685	.	A	T,C	3985.24	my_snp_filter	AC=7,3;AF=0.100,0.043;AN=70;BaseQ
8967	chrY	9965693	.	A	G	6311.67	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
8968	chrY	9965699	.	G	A	104.44	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=

8969	chrY	9965707	.	T	C	146	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
8970	chrY	9965723	.	A	C	94.45	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
8971	chrY	9965734	.	A	T	5098.85	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=0.075;C
8972	chrY	9965745	.	T	G	15787.15	PASS	AC=13;AF=0.260;AN=50;BaseQRankSum=
8973	chrY	9965753	.	A	G	13863.48	PASS	AC=13;AF=0.271;AN=48;BaseQRankSum=
8974	chrY	9965755	.	G	C	15991.38	PASS	AC=13;AF=0.271;AN=48;BaseQRankSum=
8975	chrY	9965780	.	T	A	3503.22	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=-2.740e-
8976	chrY	9965781	.	G	A	3501.87	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=-2.420e-
8977	chrY	9965784	.	G	C	6399.76	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum=-2.133e-
8978	chrY	9965787	.	C	T	36.23	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=0.034;Cl
8979	chrY	9965794	.	T	A	3965.38	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum=2.06;Cl
8980	chrY	9965799	.	T	G	3281.57	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-5.284e+
8981	chrY	9965844	.	A	T	16591.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
8982	chrY	9965852	.	A	G	10451.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
8983	chrY	9965864	.	C	A	14715.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
8984	chrY	9965869	.	T	C	1321.48	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=1.62;Cli
8985	chrY	9965880	.	G	A	11152.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
8986	chrY	9965900	.	C	G	10136.64	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=
8987	chrY	9965905	.	G	A	10051.64	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=
8988	chrY	9965929	.	A	G	11324.16	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=
8989	chrY	9965943	.	A	T	1436	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=0.817;Cl
8990	chrY	9965947	.	C	A	4303.30	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=2.70;Cl
8991	chrY	9965951	.	T	C,*	560.62	PASS	AC=2,1;AF=0.050,0.025;AN=40;BaseQRankSum=
8992	chrY	9965953	.	T	C	1733.30	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=0.487;Cl
8993	chrY	9965955	.	G	T,C	2412.58	PASS	AC=5,2;AF=0.132,0.053;AN=38;BaseQRankSum=
8994	chrY	9965960	.	A	G	8758.47	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=0.768;C
8995	chrY	9965992	.	A	G	2123.61	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=0.722;Cl
8996	chrY	9965994	.	C	T	11836.32	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=
8997	chrY	9966015	.	G	A	20840.54	PASS	AC=10;AF=0.294;AN=34;BaseQRankSum=
8998	chrY	9966016	.	G	A	11941.76	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
8999	chrY	9966024	.	G	C,T	14677.56	PASS	AC=2,9;AF=0.042,0.188;AN=48;BaseQ
9000	chrY	9966025	.	A	G	12021.03	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
9001	chrY	9966033	.	A	C	20599.25	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
9002	chrY	9966034	.	G	A	14932.59	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
9003	chrY	9966048	.	G	T	1650.23	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=2.94;Cli
9004	chrY	9966054	.	G	A	61.10	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQRankSum=
9005	chrY	9966073	.	C	A	1894.70	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-1.830e+
9006	chrY	9966074	.	A	C	177.70	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
9007	chrY	9966092	.	C	T	162.38	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
9008	chrY	9966104	.	A	G	12825.37	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
9009	chrY	9966108	.	G	A	5782.76	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.880e-
9010	chrY	9966153	.	G	T	2466.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9011	chrY	9966157	.	G	A	4582.90	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
9012	chrY	9966166	.	T	C	4281.68	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
9013	chrY	9966176	.	T	G	3765.03	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
9014	chrY	9966202	.	A	C	1325.01	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9015	chrY	9966219	.	T	A,G	3027.03	my_snp_filter	AC=13,1;AF=0.186,0.014;AN=70;Base
9016	chrY	9966221	.	C	T	227.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.595e+
9017	chrY	9966229	.	T	C	3696.48	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
9018	chrY	9966235	.	A	G	459.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-6.040e-
9019	chrY	9966236	.	C	T	3751.53	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
9020	chrY	9966247	.	G	A	710.29	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.686e+
9021	chrY	9966250	.	G	A	607.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.77;Cli
9022	chrY	9966293	.	A	G	516.56	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-9.780e-
9023	chrY	9966309	.	G	A	5854.29	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQRankSum=
9024	chrY	9966311	.	C	T	758.81	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9025	chrY	9966313	.	A	C	235.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9026	chrY	9966315	.	T	C	774.06	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.708e+
9027	chrY	9966317	.	T	G	770.10	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9028	chrY	9966325	.	C	G	435.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.501;Cl
9029	chrY	9966326	.	A	G	1088.04	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-3.060e-
9030	chrY	9966328	.	G	A	2161.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-8.300e-
9031	chrY	9966341	.	G	A	1769.74	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.275e-
9032	chrY	9966342	.	A	G	1799.33	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.620e-
9033	chrY	9966349	.	C	A	1526.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-9.850e-
9034	chrY	9966352	.	T	C	1912.32	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-6.340e-
9035	chrY	9966363	.	T	C	2557.20	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.800e-
9036	chrY	9966388	.	A	T	1320.67	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-6.940e-
9037	chrY	9966389	.	A	G	2119.88	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-9.560e-
9038	chrY	9966399	.	G	A	283.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-5.720e-
9039	chrY	9966412	.	G	A	1058.33	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.332;C
9040	chrY	9966417	.	G	T	681.60	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-7.150e-
9041	chrY	9966419	.	G	C	147.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.395e+
9042	chrY	9966443	.	T	A	439.61	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-7.200e-
9043	chrY	9966449	.	G	A	156.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.198;Cl
9044	chrY	9966488	.	G	A	1279.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.102;Cl

9045	chrY	9966508	.	A	C	77.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.180e-
9046	chrY	9966511	.	A	G	77.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.829;C1
9047	chrY	9966523	.	T	C	164.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.296;C1
9048	chrY	9966525	.	T	G	205.56	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.589;C1
9049	chrY	9966570	.	G	T	2261.58	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum
9050	chrY	9966572	.	C	G	2257.99	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum
9051	chrY	9966589	.	A	C	3689.24	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=-9.900e
9052	chrY	9966609	.	G	T	6282.92	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-4.770e
9053	chrY	9966617	.	G	A	9667.25	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=-4.060e
9054	chrY	9966625	.	C	T	1380.75	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.934;C1
9055	chrY	9966634	.	G	A	1401.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.960e
9056	chrY	9966642	.	C	A	2158.34	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.476;C
9057	chrY	9966655	.	C	G	827.86	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-5.910e-
9058	chrY	9966699	.	A	T	2213.83	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-6.760e
9059	chrY	9966703	.	T	A,C	4470.58	PASS	AC=8,21;AF=0.118,0.309;AN=68;BaseQRankSum
9060	chrY	9966742	.	A	G	301.84	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-3.580e-
9061	chrY	9966747	.	A	T	228.39	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.026e+
9062	chrY	9966768	.	A	C	59.60	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
9063	chrY	9966779	.	C	T	49.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.75;Cli
9064	chrY	9966932	.	A	T	36.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-7.640e-
9065	chrY	9966936	.	T	G	78.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.208;C1
9066	chrY	9966949	.	T	C	948.78	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.300e-
9067	chrY	9966950	.	G	A	943.70	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.736;C1
9068	chrY	9966996	.	G	T	6735.51	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQRankSum
9069	chrY	9967001	.	C	A	239.56	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
9070	chrY	9967011	.	G	C	105.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9071	chrY	9967013	.	C	T	15291.18	my_snp_filter	AC=29;AF=0.414;AN=70;Base
9072	chrY	9967017	.	A	G,T	11902.50	my_snp_filter	AC=19,10;AF=0.271,0.143;A
9073	chrY	9967023	.	T	C	33.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.380e+
9074	chrY	9967050	.	G	A	13334.97	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
9075	chrY	9967055	.	C	A	1851.36	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.284;C
9076	chrY	9967072	.	C	G	3678.52	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=0.807;C
9077	chrY	9967076	.	G	C	3751.02	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=0.411;C
9078	chrY	9967088	.	C	T	8091.90	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.334;C
9079	chrY	9967100	.	C	A,G	3634.99	PASS	AC=5,24;AF=0.071,0.343;AN=70;BaseQRankSum
9080	chrY	9967104	.	T	C	47.49	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9081	chrY	9967146	.	T	C	704.91	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
9082	chrY	9967151	.	A	G	27456.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
9083	chrY	9967154	.	C	A	42.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9084	chrY	9967155	.	C	T	1962.10	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.210e
9085	chrY	9967159	.	C	A	68.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9086	chrY	9967195	.	C	T	15203.58	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
9087	chrY	9967226	.	C	T	9773.39	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=2.64;C1
9088	chrY	9967238	.	A	C,T	10012.69	PASS	AC=12,6;AF=0.182,0.091;AN=66;Base
9089	chrY	9967240	.	T	C	8933.86	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.69;C1
9090	chrY	9967243	.	A	G	1288.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.736;C1
9091	chrY	9967258	.	A	G	10349.27	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum
9092	chrY	9967264	.	C	A	1022.06	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=-1.820e-
9093	chrY	9967280	.	A	C	155.47	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-1.980e-
9094	chrY	9967284	.	T	C	254.39	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
9095	chrY	9967303	.	C	T	97.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-9.380e-
9096	chrY	9967304	.	C	A	190.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-4.800e-
9097	chrY	9967306	.	C	T	8030.80	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
9098	chrY	9967343	.	G	A	481.51	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
9099	chrY	9967347	.	A	G	7181.69	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
9100	chrY	9967359	.	T	A	9061.55	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQRankSum
9101	chrY	9967364	.	T	C	281.51	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
9102	chrY	9967368	.	C	T	327.96	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
9103	chrY	9967385	.	C	A	7456.80	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum
9104	chrY	9967392	.	A	G	165.25	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
9105	chrY	9967408	.	T	C	7034.40	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9106	chrY	9967424	.	T	C	1178.56	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-7.160e
9107	chrY	9967425	.	G	A	142.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9108	chrY	9967433	.	C	A	1472.75	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.04;C1
9109	chrY	9967440	.	G	A	1816	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.485;C
9110	chrY	9967444	.	A	G	1953.82	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.657;C
9111	chrY	9967460	.	T	C	2273.50	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-1.180e
9112	chrY	9967474	.	T	C	4624.07	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.907;C
9113	chrY	9967475	.	A	G	2098.83	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.953;C
9114	chrY	9967485	.	G	T	45.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9115	chrY	9967487	.	T	C	10586.38	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
9116	chrY	9967488	.	G	A	4923.97	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.355;C
9117	chrY	9967496	.	A	G	37.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.580e-
9118	chrY	9967506	.	C	A	4337.13	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-8.950e
9119	chrY	9967520	.	T	C	819.25	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-3.809e
9120	chrY	9967572	.	C	A	2726.88	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.283;C

9121	chrY	9967576	.	T	C	2990.92	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.030e
9122	chrY	9967593	.	G	C	86.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.03;Cli
9123	chrY	9967599	.	G	A	760.64	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.07;Cl
9124	chrY	9967600	.	T	A	59.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.360e-
9125	chrY	9967624	.	A	T	412.44	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.698;C
9126	chrY	9967671	.	T	C	1472.56	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum
9127	chrY	9967676	.	A	T	1071.27	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum
9128	chrY	9967701	.	A	C	1048.26	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.804;C
9129	chrY	9967728	.	G	C	241.22	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9130	chrY	9967747	.	C	T	168.43	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
9131	chrY	9967769	.	G	T	75.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9132	chrY	9967772	.	T	C	60.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9133	chrY	9967821	.	T	C	97.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.23;Cli
9134	chrY	9967822	.	C	A	100.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.720;Cl
9135	chrY	9967858	.	A	C	121.13	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-3.580e-
9136	chrY	9967862	.	A	G	118.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.358;Cl
9137	chrY	9967863	.	A	G	118.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.358;Cl
9138	chrY	9967870	.	C	T	106.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.580e-
9139	chrY	9967872	.	C	T	43.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.083e+
9140	chrY	9967880	.	G	A	58.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.727;Cl
9141	chrY	9967909	.	C	A	828.52	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.736;C
9142	chrY	9967915	.	T	C	916.31	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-3.580e-
9143	chrY	9967924	.	C	G	4264.16	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=0.937;C
9144	chrY	9967925	.	G	T	48.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.046;Cl
9145	chrY	9967926	.	G	C	1133.13	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.00;Cl
9146	chrY	9967928	.	T	G	4453.76	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=-9.370e-
9147	chrY	9967934	.	T	C	4769.13	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=-9.220e-
9148	chrY	9967935	.	G	A	2290.15	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=-3.260e-
9149	chrY	9967937	.	G	C	1393.50	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-7.270e-
9150	chrY	9967951	.	G	A	233.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.61;Cli
9151	chrY	9967962	.	G	A	2044.08	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-4.150e-
9152	chrY	9967978	.	C	T,*	3196.31	PASS	AC=20,6;AF=0.303,0.091;AN=66;BaseQRankSum
9153	chrY	9967979	.	C	A,G,*	2828.54	PASS	AC=5,18,2;AF=0.076,0.273,0.030;AN=66;Base
9154	chrY	9967988	.	C	G,*	2366.22	PASS	AC=13,2;AF=0.210,0.032;AN=62;BaseQRankSum
9155	chrY	9967998	.	A	G	4826.57	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=-1.275e-
9156	chrY	9968000	.	G	A	360.97	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.36;Cli
9157	chrY	9968012	.	G	T,A	2651.61	PASS	AC=14,11;AF=0.200,0.157;AN=70;BaseQRankSu
9158	chrY	9968015	.	C	G	1551.72	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-1.246e-
9159	chrY	9968021	.	C	T	159.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.453e+
9160	chrY	9968023	.	G	A	1390.45	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-6.230e-
9161	chrY	9968027	.	T	C	820.66	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.733e-
9162	chrY	9968028	.	G	A	1343.62	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.239e-
9163	chrY	9968029	.	G	A	690.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.930e-
9164	chrY	9968036	.	A	G	3046.40	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.020e-
9165	chrY	9968043	.	C	A	484.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.922;Cl
9166	chrY	9968044	.	G	A	622.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.45;Cli
9167	chrY	9968051	.	C	T	558.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.38;Cli
9168	chrY	9968059	.	G	A	412.47	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.937;Cl
9169	chrY	9968066	.	G	A	417.11	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.096;Cl
9170	chrY	9968067	.	C	T	609.65	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=1.57;Cli
9171	chrY	9968079	.	T	C	1424.27	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=-6.960e-
9172	chrY	9968080	.	G	A	435.02	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-6.700e-
9173	chrY	9968082	.	C	A	33.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.38;Cli
9174	chrY	9968092	.	G	A	374.65	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.57;Cli
9175	chrY	9968104	.	C	A	801.52	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=1.23;Cl
9176	chrY	9968110	.	T	A	651.90	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=1.18;Cl
9177	chrY	9968136	.	A	G	753.21	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.135;Cl
9178	chrY	9968138	.	C	T	366.74	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.45;Cli
9179	chrY	9968160	.	C	T	398.62	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.06;Cli
9180	chrY	9971430	.	G	A	1292.96	PASS	AC=6;AF=0.300;AN=20;DP=164;FS=0.000;Inbre
9181	chrY	9971930	.	A	G	149.37	PASS	AC=2;AF=0.029;AN=70;DP=485;FS=0.000;Inbre
9182	chrY	9971959	.	C	A	107.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.177e+
9183	chrY	9971991	.	C	A	223.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.240e-
9184	chrY	9971997	.	C	T	238.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.08;Cli
9185	chrY	9972000	.	G	A	224.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.690e-
9186	chrY	9972161	.	A	T	131.59	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.847;Cl
9187	chrY	9972222	.	C	T	660.37	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.52;Cli
9188	chrY	9972236	.	G	C	886.75	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-3.300e-
9189	chrY	9972255	.	C	A	1125.72	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-1.350e+
9190	chrY	9972279	.	G	T	1193.16	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=2.28;Cli
9191	chrY	9972291	.	T	A	1095.45	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-9.150e-
9192	chrY	9972343	.	A	C	905.38	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9193	chrY	9972382	.	C	G	1764.05	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9194	chrY	9972393	.	C	A	1625.86	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9195	chrY	9972413	.	T	C	1410.68	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9196	chrY	9972434	.	C	T	1280.76	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=

9197	chrY	9972594	.	T	G	2000.48	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=-6.560e
9198	chrY	9972632	.	C	G	2996.22	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=-1.250e
9199	chrY	9972636	.	G	A	210.54	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-7.440e-
9200	chrY	9972686	.	T	A	3323.01	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=0.307;C
9201	chrY	9972689	.	C	T	3502.21	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=0.00;Cl
9202	chrY	9972713	.	C	T	2121.75	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=0.122;Cl
9203	chrY	9972722	.	G	T	1311.02	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=1.37;Cli
9204	chrY	9972724	.	A	T	1230.42	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=-7.180e-
9205	chrY	9972748	.	C	T	185.23	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.930;Cl
9206	chrY	9972759	.	T	C	145.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.085;Cl
9207	chrY	9972850	.	C	T	272.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=3.42;Cli
9208	chrY	9972858	.	C	T	269.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.39;Cli
9209	chrY	9972859	.	A	G	272.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.206;Cl
9210	chrY	9972873	.	A	G	281.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.350e+
9211	chrY	9972882	.	T	G	310.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.805;Cl
9212	chrY	9972929	.	G	T	788.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9213	chrY	9972939	.	C	A	169.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.19;Cli
9214	chrY	9973349	.	T	G	432.25	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
9215	chrY	9973389	.	G	T	298.46	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=1.87;Cli
9216	chrY	9973394	.	A	G	905.65	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
9217	chrY	9973420	.	A	T	221.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.36;Cl
9218	chrY	9973448	.	C	T	219.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.474;Cl
9219	chrY	9973470	.	C	G	721.04	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9220	chrY	9973478	.	A	C	758.85	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9221	chrY	9973491	.	C	G	143.82	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.88;Cli
9222	chrY	9973519	.	G	T	152.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.250;Cl
9223	chrY	9973593	.	G	T	163.24	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.40;Cl
9224	chrY	9973620	.	T	C	227.96	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
9225	chrY	9973658	.	T	C	2849.66	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=-1.124e
9226	chrY	9973659	.	G	A	768.73	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=-3.940e-
9227	chrY	9973664	.	C	A	350.30	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-6.270e-
9228	chrY	9973678	.	T	C	261.92	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-1.026e+
9229	chrY	9973681	.	T	C	84.23	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
9230	chrY	9973699	.	T	A	83.30	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
9231	chrY	9973705	.	A	G	162.57	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
9232	chrY	9973712	.	C	T	85.76	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
9233	chrY	9973713	.	G	T	170.36	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
9234	chrY	9973719	.	G	T	88.05	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
9235	chrY	9973729	.	C	T	2132.26	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=0.898;C
9236	chrY	9973739	.	G	A	108.91	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
9237	chrY	9973867	.	T	A	192.84	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=1.15;Cli
9238	chrY	9973880	.	G	A	117.99	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=1.01;Cli
9239	chrY	9973905	.	A	G	298.11	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=-1.445e+
9240	chrY	9973908	.	T	C	70.45	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
9241	chrY	9973924	.	A	G	202.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.810;Cl
9242	chrY	9973926	.	G	A	199.72	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=1.04;Cl
9243	chrY	9973935	.	A	T	89.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.752;Cl
9244	chrY	9973942	.	A	C,T	937.87	PASS	AC=5,5;AF=0.081,0.081;AN=62;BaseQRankSum=
9245	chrY	9973969	.	A	T	377.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.211;Cl
9246	chrY	9973982	.	T	C	699.86	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=-1.026e
9247	chrY	9974007	.	A	G	658.67	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.00;Cli
9248	chrY	9974014	.	A	G	633.13	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.347;Cl
9249	chrY	9974036	.	G	A	67.03	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
9250	chrY	9974049	.	C	T	67.70	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9251	chrY	9974070	.	A	C	162.28	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.66;Cl
9252	chrY	9974074	.	C	G	168.95	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=2.03;Cl
9253	chrY	9974102	.	T	A	259.43	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.212e+
9254	chrY	9974155	.	G	A	440.86	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=1.65;Cli
9255	chrY	9974158	.	G	C	84.16	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
9256	chrY	9974160	.	C	T	2543.18	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=-6.390e
9257	chrY	9974180	.	G	A	3343.54	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=1.16;Cl
9258	chrY	9974196	.	A	G	4035.82	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=-8.100e-
9259	chrY	9974205	.	G	C	4511.89	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=-1.982e+
9260	chrY	9974216	.	T	G	2332.04	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=0.751;Cl
9261	chrY	9974235	.	A	C	5993.46	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=-1.647e+
9262	chrY	9974237	.	A	C	5963.15	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=-1.500e-
9263	chrY	9974275	.	C	G	864.09	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.929;Cl
9264	chrY	9974306	.	C	A	30.31	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
9265	chrY	9974321	.	C	A	10326.98	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum
9266	chrY	9974330	.	C	G	9962.77	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=-8.390e
9267	chrY	9974331	.	C	T	1133.01	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=-7.500e
9268	chrY	9974353	.	A	T	7496.86	PASS	AC=28;AF=0.438;AN=64;BaseQRankSum=0.548;C
9269	chrY	9974397	.	A	C	1923.78	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=-7.240e
9270	chrY	9974422	.	G	A	1463.48	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQRankSum
9271	chrY	9974429	.	C	T	1211.40	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
9272	chrY	9974464	.	T	A	725.03	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=

9273	chrY	9974468	.	C	T	689.24	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9274	chrY	9974487	.	T	A	685.87	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9275	chrY	9974488	.	G	A	89.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.620e-
9276	chrY	9974493	.	G	A	89.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.620e-
9277	chrY	9974506	.	C	T	206.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.980;Cl
9278	chrY	9974510	.	G	C	789.09	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9279	chrY	9974521	.	A	C	1166.35	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
9280	chrY	9974567	.	G	C	673.65	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9281	chrY	9974569	.	G	A	641.52	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9282	chrY	9974579	.	G	A	696.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9283	chrY	9974610	.	C	T	256.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-9.370e-
9284	chrY	9974616	.	C	G	231.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.023e+
9285	chrY	9974644	.	T	C	114.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.741e+
9286	chrY	9975009	.	G	C	40.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.638e+
9287	chrY	9975150	.	C	T	348.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.25;Cli
9288	chrY	9975156	.	T	C	617.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.493e+
9289	chrY	9975158	.	G	A	883.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=2.19;Cli
9290	chrY	9975163	.	G	A	213.76	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.736e+
9291	chrY	9975169	.	C	A	53.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.311;Cl
9292	chrY	9975184	.	C	T	59.69	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=-8.500e-
9293	chrY	9975197	.	T	G	1278.48	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=-1.488e+
9294	chrY	9975213	.	C	T	191.04	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=1.26;Cli
9295	chrY	9975236	.	C	A	1223.24	PASS	AC=11;AF=0.220;AN=50;BaseQRankSum=-3.300e-
9296	chrY	9975237	.	C	A	1265.74	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=0.099;C
9297	chrY	9975245	.	G	A	212.79	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=1.10;Cli
9298	chrY	9975250	.	C	T	206.48	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=-1.246e+
9299	chrY	9975253	.	T	G	206.80	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=0.505;Cl
9300	chrY	9975258	.	G	T	113.99	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=-5.670e-
9301	chrY	9975310	.	C	A	1512.39	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=2.06;Cli
9302	chrY	9975324	.	G	A	1193.20	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=1.58;Cli
9303	chrY	9975325	.	T	A	31.17	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
9304	chrY	9975341	.	C	G	1364.57	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=-1.700e-
9305	chrY	9975365	.	C	A	1761.28	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=-4.560e-
9306	chrY	9975375	.	A	T	96.91	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=0.182;Cl
9307	chrY	9975376	.	C	A	96.61	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=1.49;Cli
9308	chrY	9975384	.	C	T	96.24	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-2.890e-
9309	chrY	9975391	.	G	T	90.81	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=1.39;Cli
9310	chrY	9975398	.	A	T	1330.92	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=-4.330e-
9311	chrY	9975399	.	G	A	1333.34	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=-1.157e+
9312	chrY	9975404	.	A	G	1370.95	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=0.731;Cl
9313	chrY	9975413	.	G	C	1122.49	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=-9.550e-
9314	chrY	9975414	.	C	G	1664.10	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=-2.099e-
9315	chrY	9975415	.	T	C	116.23	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=-2.840e+
9316	chrY	9975424	.	G	A	1467.65	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=0.981;Cl
9317	chrY	9975430	.	C	A	985.40	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=0.031;Cl
9318	chrY	9975432	.	A	G	949.40	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=-2.184e+
9319	chrY	9975437	.	C	T	121.04	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=-2.451e+
9320	chrY	9975458	.	G	A	540.80	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=1.92;Cli
9321	chrY	9975474	.	C	A	32.26	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
9322	chrY	9975481	.	A	G	378.41	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=1.09;Cli
9323	chrY	9975485	.	A	G	492.81	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=-7.460e-
9324	chrY	9975488	.	A	G	296.46	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=1.75;Cli
9325	chrY	9975513	.	T	C	50.53	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
9326	chrY	9975597	.	T	C	224.19	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
9327	chrY	9975640	.	A	G	53.90	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
9328	chrY	9975705	.	A	G	56.44	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
9329	chrY	9976058	.	A	T	75.28	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.393e+
9330	chrY	9976070	.	A	G	153.43	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-1.737e+
9331	chrY	9976093	.	A	G	214.48	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=-2.950e-
9332	chrY	9976131	.	C	T	93.45	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=0.826;Cl
9333	chrY	9976132	.	T	C	1342.15	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9334	chrY	9976168	.	C	T	2613.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-2.445e+
9335	chrY	9976169	.	A	G	5046.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9336	chrY	9976171	.	A	G	1396.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
9337	chrY	9976189	.	G	T	2660.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=2.03;Cli
9338	chrY	9976206	.	T	C	9385.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9339	chrY	9976213	.	C	A	3780.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-9.740e-
9340	chrY	9976214	.	C	T	637.75	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
9341	chrY	9976216	.	C	A	87.86	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
9342	chrY	9976223	.	A	G	105.45	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
9343	chrY	9976226	.	G	C	105.57	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQRankSum=
9344	chrY	9976228	.	C	G	9170.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9345	chrY	9976244	.	A	T	2991.62	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=1.89;Cli
9346	chrY	9976256	.	G	A	111.46	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
9347	chrY	9976300	.	A	G	1807.56	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=0.746;Cl
9348	chrY	9976309	.	T	A	9864.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=

9349	chrY	9976310	.	A	T	9837.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9350	chrY	9976314	.	C	A	882.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=-1.225e+
9351	chrY	9976319	.	A	G	1544.19	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9352	chrY	9976327	.	G	A	1157.84	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9353	chrY	9976342	.	C	T	63.53	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
9354	chrY	9976343	.	A	T	5437.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQRankSum=
9355	chrY	9976379	.	G	C	11058.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
9356	chrY	9976391	.	A	C	12717.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
9357	chrY	9976392	.	C	T	196.01	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=0.666;Cl
9358	chrY	9976410	.	T	A	637.55	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=2.35;Cli
9359	chrY	9976419	.	C	T	1071.88	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=-1.666e+
9360	chrY	9976420	.	A	G	1065.88	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=-2.077e+
9361	chrY	9976429	.	G	T	616.95	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=-3.720e-
9362	chrY	9976441	.	A	G	1131.41	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=-4.529e+
9363	chrY	9976446	.	G	T	9760.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=3.57;Cli
9364	chrY	9976455	.	C	A	10236.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
9365	chrY	9976459	.	C	T	10200.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
9366	chrY	9976460	.	T	C	16616.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
9367	chrY	9976472	.	T	C	10259.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
9368	chrY	9976473	.	G	T	10349.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
9369	chrY	9976517	.	C	T	18443.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
9370	chrY	9976519	.	A	T	8442.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=1.37;Cli
9371	chrY	9976528	.	T	A	8231.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=-5.800e-
9372	chrY	9976537	.	C	T	3298	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=-2.239e+
9373	chrY	9976539	.	T	C	3379.27	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=-2.515e+
9374	chrY	9976541	.	T	G	3481.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=-4.555e+
9375	chrY	9976555	.	G	C	7400.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=2.52;Cli
9376	chrY	9976557	.	G	A	16064.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
9377	chrY	9976561	.	G	C	7541.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-5.199e+
9378	chrY	9976575	.	G	A	6763.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=1.82;Cli
9379	chrY	9976578	.	C	T	6545.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=-1.693e+
9380	chrY	9976590	.	T	C	13676.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
9381	chrY	9976634	.	G	A	11458.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
9382	chrY	9976666	.	A	G	8016.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-2.783e+
9383	chrY	9976670	.	T	G	7692.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
9384	chrY	9976684	.	G	T	706.31	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-1.071e+
9385	chrY	9976688	.	T	G	5766.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=-2.514e+
9386	chrY	9976690	.	G	A	5633.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=1.05;Cli
9387	chrY	9976712	.	G	C	49.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
9388	chrY	9976717	.	C	G	547.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=0.532;Cl
9389	chrY	9976747	.	C	A	3559.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
9390	chrY	9976758	.	C	G	2878.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
9391	chrY	9976778	.	G	A	2354.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
9392	chrY	9976781	.	T	A	2357.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
9393	chrY	9976795	.	A	T	2694.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9394	chrY	9976801	.	T	G	2898.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9395	chrY	9976805	.	G	C	2950.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9396	chrY	9976808	.	G	A	2950.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQRankSum=
9397	chrY	9976830	.	C	A	81.94	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=
9398	chrY	9976836	.	A	G	3286.90	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQRankSum=
9399	chrY	9976855	.	A	T,C	3921.35	my_snp_filter	AC=8,1;AF=0.333,0.042;AN=24;BaseQ
9400	chrY	9976858	.	T	A	3983.71	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=0.395;Cl
9401	chrY	9976896	.	G	A	3726.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=2.54;Cl
9402	chrY	9976930	.	A	C	984.21	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=-1.309e+
9403	chrY	9976935	.	C	T	1845.16	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=-2.000e+
9404	chrY	9977021	.	T	C	2558.61	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=-3.040e+
9405	chrY	9977035	.	C	T	732.51	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=-1.588e+
9406	chrY	9977044	.	T	C	732.10	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=-1.380e+
9407	chrY	9977058	.	G	A	509.86	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-1.903e+
9408	chrY	9977069	.	C	T	330.81	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=-7.510e-
9409	chrY	9977074	.	T	C	74.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9410	chrY	9977087	.	C	A	40.78	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
9411	chrY	9977098	.	C	T	311.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.361;Cl
9412	chrY	9977101	.	A	G	272.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-9.270e-
9413	chrY	9977367	.	T	A	84.68	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=-3.470e-
9414	chrY	9977370	.	A	C	261.98	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=0.00;Cli
9415	chrY	9977372	.	A	C	306.90	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=1.41;Cli
9416	chrY	9977377	.	C	A	384.04	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-7.180e-
9417	chrY	9977384	.	C	T	554.53	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-3.700e-
9418	chrY	9977387	.	C	T	581.56	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=0.550;Cl
9419	chrY	9977396	.	A	G	735.18	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-1.115e+
9420	chrY	9977402	.	G	A	815.18	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=2.52;Cli
9421	chrY	9977427	.	G	A	1203.73	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQRankSum=
9422	chrY	9977434	.	G	C	3426.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
9423	chrY	9977437	.	G	C	3606.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
9424	chrY	9977444	.	T	C	1588.73	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQRankSum=

9425	chrY	9977452	.	G	A	1737.12	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
9426	chrY	9977458	.	A	T	2113.45	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQRankSum=
9427	chrY	9977463	.	C	G	5898.85	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQRankSum=
9428	chrY	9977481	.	G	C	7158.57	my_snp_filter	AC=11;AF=0.423;AN=26;BaseQRankSum=
9429	chrY	9977485	.	T	C	105.91	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
9430	chrY	9977506	.	G	A	1971.42	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=-8.330e-
9431	chrY	9977511	.	G	A	1131.61	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=-1.397e-
9432	chrY	9977562	.	A	G	5317.52	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum=1.61;Cli
9433	chrY	9977573	.	T	C	5462.83	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=0.777;C
9434	chrY	9977606	.	C	A	480.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.75;Cli
9435	chrY	9977631	.	C	A	4299.80	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.41;Cli
9436	chrY	9977635	.	T	C	8996.31	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.650e-
9437	chrY	9977643	.	G	A	2164.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-3.110e-
9438	chrY	9977650	.	G	A	2997.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=2.71;Cli
9439	chrY	9977658	.	T	C	11015.88	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
9440	chrY	9977659	.	A	T	3250.55	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.65;Cli
9441	chrY	9977660	.	T	G	2197.31	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.167;C
9442	chrY	9977663	.	G	T	11347.84	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
9443	chrY	9977669	.	T	C	3224.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.499e+
9444	chrY	9977679	.	A	T	11740.76	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
9445	chrY	9977685	.	G	C	614.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.32;Cli
9446	chrY	9977690	.	T	C	4507.17	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-7.360e-
9447	chrY	9977697	.	C	T	4854.31	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=1.28;Cli
9448	chrY	9977706	.	T	A	5052.09	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.742;C
9449	chrY	9977707	.	A	T	5043.13	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.783;C
9450	chrY	9977716	.	A	C	4847.37	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.179e-
9451	chrY	9977724	.	A	G	96.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9452	chrY	9977732	.	T	C	29045	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.355;C
9453	chrY	9977733	.	G	A	9404.95	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=2.36;Cl
9454	chrY	9977735	.	G	A	3253.24	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-3.055e+
9455	chrY	9977741	.	T	C	21092.22	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
9456	chrY	9977749	.	G	A,C	19790.20	PASS	AC=9,18;AF=0.132,0.265;AN=68;Base
9457	chrY	9977776	.	T	G	208.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9458	chrY	9977780	.	A	G	1095.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.222e+
9459	chrY	9977790	.	A	T	2851.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.06;Cli
9460	chrY	9977794	.	C	T	2560.89	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.680e-
9461	chrY	9977808	.	T	A	78.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9462	chrY	9977809	.	T	G	21482.45	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
9463	chrY	9977848	.	C	T	16792.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9464	chrY	9977853	.	T	C	54109.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9465	chrY	9977864	.	C	T	11346.25	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
9466	chrY	9977866	.	T	G	63504.58	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9467	chrY	9977868	.	T	C	11379.30	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
9468	chrY	9977871	.	T	C	806.92	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-7.250e-
9469	chrY	9977905	.	C	T	60.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9470	chrY	9977927	.	G	A	3031.63	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.495e+
9471	chrY	9977932	.	C	A,T	14292.31	PASS	AC=27,6;AF=0.386,0.086;AN=70;Base
9472	chrY	9977933	.	G	C	3146.50	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=3.70;Cli
9473	chrY	9977937	.	T	G	5872.57	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-8.380e-
9474	chrY	9977942	.	T	A	341.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-3.630e-
9475	chrY	9977946	.	C	G	10557.43	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
9476	chrY	9977949	.	T	A,G	59645.11	PASS	AC=29,32;AF=0.414,0.457;AN=70;Bas
9477	chrY	9977954	.	G	T	3840.64	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.466;C
9478	chrY	9977963	.	C	A	15839.27	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
9479	chrY	9977966	.	T	C	66775.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9480	chrY	9977970	.	A	G	46.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9481	chrY	9977980	.	C	T,*	6420.01	PASS	AC=24,3;AF=0.343,0.043;AN=70;BaseQRankSum=
9482	chrY	9977985	.	C	T	156.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.059;Cl
9483	chrY	9977990	.	C	T	2194.84	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.58;Cl
9484	chrY	9977991	.	T	G	19975.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
9485	chrY	9978009	.	A	G	32127.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9486	chrY	9978034	.	A	G	30695.74	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9487	chrY	9978035	.	C	A	15206.99	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
9488	chrY	9978055	.	C	T,A	16907.47	PASS	AC=29,1;AF=0.414,0.014;AN=70;Base
9489	chrY	9978056	.	G	A	3681.65	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.967;C
9490	chrY	9978106	.	C	G	1701.58	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-9.330e-
9491	chrY	9978133	.	T	C	11250.48	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
9492	chrY	9978135	.	G	A	4812.52	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.280e-
9493	chrY	9978136	.	T	G,A	19195.42	PASS	AC=30,4;AF=0.429,0.057;AN=70;Base
9494	chrY	9978139	.	A	T	4606.55	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.922;C
9495	chrY	9978147	.	A	G	23020.78	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
9496	chrY	9978165	.	T	G	658.23	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9497	chrY	9978191	.	A	T	3241.90	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.310;C
9498	chrY	9978212	.	A	T	2633.46	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.720;C
9499	chrY	9978216	.	C	T	11239.26	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
9500	chrY	9978228	.	T	C	280.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.983e+

9501	chrY	9978270	.	C	T	6151.96	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=1.19;C
9502	chrY	9978275	.	C	T	1067.78	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.972;C
9503	chrY	9978280	.	C	T	1010.87	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
9504	chrY	9978282	.	A	T	21667.67	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
9505	chrY	9978287	.	C	T	7402.32	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=3.17;C
9506	chrY	9978288	.	G	A	9112.21	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-6.230e
9507	chrY	9978292	.	C	T	21762.11	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
9508	chrY	9978297	.	G	A	889.60	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.846;C
9509	chrY	9978298	.	T	C	9382.81	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.957e
9510	chrY	9978300	.	G	C	7499.19	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-5.175e
9511	chrY	9978325	.	G	T	7549.84	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.714;C
9512	chrY	9978326	.	C	A	7513.88	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.721;C
9513	chrY	9978340	.	T	C	6757.92	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.650e
9514	chrY	9978346	.	G	C	5302.13	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-3.690e
9515	chrY	9978350	.	T	G	14392.24	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
9516	chrY	9978352	.	A	C	13944.24	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
9517	chrY	9978354	.	T	A	13698.20	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
9518	chrY	9978361	.	T	C	12683.66	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
9519	chrY	9978364	.	G	A	12561.24	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
9520	chrY	9978373	.	A	G	11212.31	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
9521	chrY	9978388	.	G	T	751.54	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=1.13;C
9522	chrY	9978390	.	A	G	9612.41	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=2.75;C
9523	chrY	9978394	.	G	C	9125.93	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=2.21;C
9524	chrY	9978402	.	A	G	8729.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.86;C
9525	chrY	9978410	.	C	T	7728.73	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.49;C
9526	chrY	9978414	.	G	C	7714.52	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=4.79;C
9527	chrY	9978424	.	C	A	3113.66	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.644e
9528	chrY	9978444	.	A	C	832.53	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.880;C
9529	chrY	9978452	.	G	C	750.78	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.025;C
9530	chrY	9978457	.	G	A	1412.94	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.74;C
9531	chrY	9978463	.	G	T	1074.01	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.03;C
9532	chrY	9978464	.	C	T	1083.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.561;C
9533	chrY	9978499	.	A	C	9907.91	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.727;C
9534	chrY	9978501	.	G	A	53.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9535	chrY	9978506	.	G	A	10040.27	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum
9536	chrY	9978509	.	G	T	2415.91	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-7.590e-
9537	chrY	9978525	.	C	T	3062.41	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-7.900e-
9538	chrY	9978528	.	G	T	3002.73	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.99;C
9539	chrY	9978534	.	G	A	9542.07	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=1.16;C
9540	chrY	9978535	.	C	A	3157.09	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=1.31;C
9541	chrY	9978536	.	G	A	4545.53	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=1.03;C
9542	chrY	9978545	.	A	G	10121.10	my_snp_filter	AC=12;AF=0.200;AN=60;BaseQ
9543	chrY	9978547	.	A	G	3318.88	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=2.02;C
9544	chrY	9978555	.	G	T	3421.28	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.119;C
9545	chrY	9978559	.	A	T	3241.01	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.812;C
9546	chrY	9978561	.	C	T	3113.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.110e+
9547	chrY	9978563	.	C	T	5244.69	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=0.557;C
9548	chrY	9978574	.	T	C	5235.78	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=1.28;C
9549	chrY	9978594	.	C	T	5251.21	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=-7.270e
9550	chrY	9978618	.	G	A	2007.26	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.248;C
9551	chrY	9978620	.	A	T	354.21	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.200e-
9552	chrY	9978640	.	T	G	10492.94	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum
9553	chrY	9978653	.	G	T	59.36	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
9554	chrY	9978669	.	G	T	10476.23	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum
9555	chrY	9978679	.	C	A	2662.38	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.421e
9556	chrY	9978684	.	A	C	2548.17	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.477;C
9557	chrY	9978690	.	A	G	9241.36	my_snp_filter	AC=22;AF=0.333;AN=66;BaseQRankSum
9558	chrY	9978710	.	C	A	3242.83	my_snp_filter	AC=18;AF=0.281;AN=64;BaseQRankSum
9559	chrY	9978731	.	A	C	2593.44	my_snp_filter	AC=13;AF=0.203;AN=64;BaseQRankSum
9560	chrY	9978733	.	C	A	1871.51	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.242;C
9561	chrY	9978744	.	C	T	1097.03	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.22;C
9562	chrY	9978764	.	C	A	158.41	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.878;C
9563	chrY	9978771	.	C	T	67.84	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9564	chrY	9978772	.	A	G	70.15	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9565	chrY	9978992	.	A	G	30.72	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
9566	chrY	9979021	.	T	G	4303.49	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum
9567	chrY	9979038	.	A	G	2735.35	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=-2.080e
9568	chrY	9979047	.	T	C	5610.60	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.742;C
9569	chrY	9979089	.	G	A	1474.77	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
9570	chrY	9979101	.	C	A	1371.40	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9571	chrY	9979103	.	C	T	1325.98	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9572	chrY	9979116	.	C	A	3527.83	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=-8.520e
9573	chrY	9979125	.	T	A	5482.27	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQRankSum
9574	chrY	9979136	.	C	T	189.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.65;C
9575	chrY	9979150	.	A	G	4363.20	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQRankSum
9576	chrY	9979164	.	C	T	1884.61	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum

9577	chrY	9979167	.	T	C,G	2306.09	my_snp_filter	AC=7,4;AF=0.100,0.057;AN=70;BaseQ
9578	chrY	9979168	.	G	A	1831.89	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.579;Cl
9579	chrY	9979173	.	G	A	542.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.324;Cl
9580	chrY	9979187	.	C	G,*	697.23	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQRankSum=
9581	chrY	9979203	.	C	T	1816.77	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=2.36;Cli
9582	chrY	9979204	.	A	G	1899.84	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=2.02;Cli
9583	chrY	9979214	.	A	G	1860.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.35;Cli
9584	chrY	9979219	.	G	C,T	1777.87	PASS	AC=4,5;AF=0.059,0.074;AN=68;BaseQRankSum=
9585	chrY	9979221	.	A	G	1051.77	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=2.23;Cli
9586	chrY	9979228	.	C	T	2873.86	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.55;Cli
9587	chrY	9979239	.	A	C	4128.09	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=1.55;Cli
9588	chrY	9979248	.	C	G	1625.58	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.650e-
9589	chrY	9979251	.	T	A	1892.59	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.387;Cl
9590	chrY	9979258	.	A	G	5086.69	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.324;C
9591	chrY	9979266	.	G	T	2479.96	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.640e-
9592	chrY	9979269	.	G	A	2487.07	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=3.56;Cli
9593	chrY	9979289	.	A	G	9596.26	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=0.059;C
9594	chrY	9979299	.	G	C	3379.41	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=0.047;C
9595	chrY	9979341	.	C	T	7387.32	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=0.751;C
9596	chrY	9979352	.	A	G	1529.37	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-1.569e
9597	chrY	9979383	.	T	A	12350.75	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
9598	chrY	9979393	.	T	C	17098.61	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
9599	chrY	9979404	.	T	G	16154.38	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
9600	chrY	9979410	.	C	T	8479.56	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=-2.150e
9601	chrY	9979416	.	T	G	14839.54	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
9602	chrY	9979435	.	G	T	8799.55	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=-2.990e
9603	chrY	9979459	.	C	G	180.98	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9604	chrY	9979473	.	T	A	5904.22	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-6.100e
9605	chrY	9979474	.	G	T	197.12	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9606	chrY	9979475	.	T	A	5026.62	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-4.120e
9607	chrY	9979480	.	T	C	254.66	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9608	chrY	9979481	.	C	T	254.82	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9609	chrY	9979493	.	T	A,C	4431.70	PASS	AC=23,2;AF=0.338,0.029;AN=68;BaseQRankSum
9610	chrY	9979502	.	C	T	2024.70	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.264;C
9611	chrY	9979503	.	T	A	64.16	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9612	chrY	9979516	.	A	C	3961.38	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.254;C
9613	chrY	9979528	.	A	G	431.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.090;Cl
9614	chrY	9979534	.	T	C	589.21	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.770e-
9615	chrY	9979543	.	G	C	3964.74	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.60;Cl
9616	chrY	9979552	.	A	C	288.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.472e+
9617	chrY	9979557	.	T	C	1269.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-4.040e+
9618	chrY	9979559	.	G	A	778	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.847e+
9619	chrY	9979561	.	A	C	1264.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.118;Cl
9620	chrY	9979567	.	C	T	784.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.620e-
9621	chrY	9979570	.	T	C	6260.72	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.185e
9622	chrY	9979578	.	C	T	2501.62	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.92;Cl
9623	chrY	9979594	.	A	G	65.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.535e+
9624	chrY	9979595	.	A	T	6306.68	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.546;C
9625	chrY	9979618	.	T	A	5865.67	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=0.328;C
9626	chrY	9979636	.	A	G	2953.48	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=-3.940e
9627	chrY	9979655	.	T	C	1663.46	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.572;Cl
9628	chrY	9979687	.	T	A	1047.22	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=0.906;Cl
9629	chrY	9979690	.	A	T	995.47	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=-4.210e-
9630	chrY	9979697	.	A	T	630.20	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=-1.070e-
9631	chrY	9979700	.	G	A	424.64	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=1.18;Cl
9632	chrY	9979726	.	A	G	43.47	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.727;Cl
9633	chrY	9979728	.	A	T	43.79	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.727;Cl
9634	chrY	9979772	.	T	C	81.75	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-9.560e-
9635	chrY	9979789	.	G	T	807.68	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.00;Cli
9636	chrY	9979797	.	G	A	61.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.700e-
9637	chrY	9979801	.	T	G	2568.30	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=0.206;C
9638	chrY	9979802	.	C	T	901.83	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=-4.740e
9639	chrY	9979815	.	G	C	1074.48	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-3.340e
9640	chrY	9979820	.	C	G	1170.62	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.948;Cl
9641	chrY	9979824	.	C	T	1140.35	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-6.680e
9642	chrY	9979850	.	A	G	37.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=0.358;Cl
9643	chrY	9979852	.	A	G	3541.91	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.350e
9644	chrY	9979860	.	C	T	907.44	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-1.286e+
9645	chrY	9979876	.	A	T	1490.65	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.271e
9646	chrY	9979890	.	C	G	86.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.890e-
9647	chrY	9979924	.	C	T	358.94	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=-1.764e+
9648	chrY	9979944	.	G	C	2348.09	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=0.572;C
9649	chrY	9979978	.	G	A	2537.51	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-8.190e-
9650	chrY	9979981	.	A	C	2701.72	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-7.060e-
9651	chrY	9979991	.	A	C	373.50	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=1.30;Cli
9652	chrY	9979992	.	C	G	590.17	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=0.158;Cl

9653	chrY	9979994	.	T	C	2876.72	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
9654	chrY	9979999	.	T	A	114.26	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
9655	chrY	9980003	.	T	A	42.39	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
9656	chrY	9980012	.	G	T	651.68	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=0.149;Cl
9657	chrY	9980022	.	G	C	719.14	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-2.878e+
9658	chrY	9980028	.	G	A	253.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.20;Cli
9659	chrY	9980039	.	C	G	859.73	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=0.134;Cl
9660	chrY	9980050	.	A	G	992.15	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.717;Cl
9661	chrY	9980059	.	C	A	2139.75	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQRankSum=
9662	chrY	9980080	.	A	G	189.37	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQRankSum=
9663	chrY	9980082	.	G	C	4945.02	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
9664	chrY	9980083	.	A	G	71.37	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
9665	chrY	9980102	.	A	T	421.36	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-2.950e-
9666	chrY	9980103	.	T	C,A	3464.38	my_snp_filter	AC=7,2;AF=0.117,0.033;AN=60;BaseQ
9667	chrY	9980117	.	A	T	2351.67	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQRankSum=
9668	chrY	9980125	.	G	A	1594.19	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=0.829;Cl
9669	chrY	9980142	.	C	A	2017.26	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=2.70;Cli
9670	chrY	9980148	.	T	G	2126.06	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=-1.480e+
9671	chrY	9980165	.	A	T	2655.72	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQRankSum=
9672	chrY	9980177	.	G	A	6404.10	my_snp_filter	AC=15;AF=0.268;AN=56;BaseQRankSum=
9673	chrY	9980231	.	G	C	5740.99	PASS	AC=21;AF=0.350;AN=60;BaseQRankSum=-7.170e
9674	chrY	9980235	.	G	A	411.67	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=0.793;Cl
9675	chrY	9980236	.	C	T	5054.58	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=0.515;C
9676	chrY	9980238	.	A	G	4634.85	PASS	AC=19;AF=0.317;AN=60;BaseQRankSum=-7.420e
9677	chrY	9980239	.	C	T	13374.39	PASS	AC=29;AF=0.500;AN=58;BaseQRankSum=
9678	chrY	9980240	.	A	G	13500.39	PASS	AC=29;AF=0.500;AN=58;BaseQRankSum=
9679	chrY	9980244	.	C	G	37.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.07;Cli
9680	chrY	9980251	.	G	A	3753.82	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.00;Cl
9681	chrY	9980252	.	C	T	3736.53	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=1.60;Cl
9682	chrY	9980256	.	T	C	17951.22	PASS	AC=29;AF=0.500;AN=58;BaseQRankSum=
9683	chrY	9980270	.	C	T	283.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.400;Cl
9684	chrY	9980278	.	A	G	3361.44	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.107;C
9685	chrY	9980291	.	G	C	21490.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9686	chrY	9980314	.	T	A	69.06	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9687	chrY	9980315	.	G	C	12995.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9688	chrY	9980343	.	A	T	401.99	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9689	chrY	9980344	.	G	C	231.69	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9690	chrY	9980345	.	G	A	234.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9691	chrY	9980347	.	C	G	252.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9692	chrY	9980359	.	A	C	372.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.280e-
9693	chrY	9980362	.	C	T	1508.26	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
9694	chrY	9980370	.	C	T	17360.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9695	chrY	9980391	.	G	A	12427.36	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
9696	chrY	9980395	.	A	T	12440.41	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
9697	chrY	9980400	.	C	T	12611.06	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
9698	chrY	9980403	.	C	A	603.97	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9699	chrY	9980407	.	T	G	260.61	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9700	chrY	9980408	.	G	A	266.57	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9701	chrY	9980409	.	C	T	12985.78	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
9702	chrY	9980420	.	T	C	20441.85	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
9703	chrY	9980421	.	T	C	20447.85	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
9704	chrY	9980422	.	G	C,A	22533.72	PASS	AC=28,7;AF=0.400,0.100;AN=70;Base
9705	chrY	9980431	.	G	C	10351.63	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
9706	chrY	9980446	.	A	G	14593.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
9707	chrY	9980447	.	G	T	8591.02	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=0.522;C
9708	chrY	9980450	.	C	T	13859.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
9709	chrY	9980460	.	C	G	623.38	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.312;Cl
9710	chrY	9980463	.	T	G	42293.87	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
9711	chrY	9980465	.	A	G	12803.85	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
9712	chrY	9980474	.	C	T	9047.22	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.673;C
9713	chrY	9980481	.	A	C	5994.96	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.898;C
9714	chrY	9980520	.	A	G	418.79	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9715	chrY	9980525	.	C	G	261.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9716	chrY	9980539	.	T	C	7788.21	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=1.40;Cl
9717	chrY	9980555	.	A	C	6175.06	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum=
9718	chrY	9980558	.	G	T	1480.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.27;Cli
9719	chrY	9980561	.	C	T	3198.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9720	chrY	9980575	.	G	T	3314.21	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9721	chrY	9980581	.	A	G	1536.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.669e+
9722	chrY	9980602	.	C	T	7716.49	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
9723	chrY	9980608	.	A	T	8059.82	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQRankSum=
9724	chrY	9980622	.	T	C	132.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9725	chrY	9980623	.	T	C	612.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.36;Cli
9726	chrY	9980625	.	G	A,*	828.43	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQRankSum=
9727	chrY	9980641	.	T	C	1256.91	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.567;Cl
9728	chrY	9980652	.	G	A	142.62	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=

9729	chrY	9980654	.	C	T	2315.23	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-6.810e
9730	chrY	9980686	.	T	G	11627.63	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
9731	chrY	9980687	.	C	T	32.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
9732	chrY	9980691	.	T	G	11400.11	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
9733	chrY	9980702	.	C	A	827.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.284;C
9734	chrY	9980743	.	G	A	1195.13	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-2.248e+
9735	chrY	9980755	.	G	A	1049.31	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=-7.510e-
9736	chrY	9981158	.	A	G	619.93	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-6.500e-
9737	chrY	9981169	.	G	T	207.62	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9738	chrY	9981176	.	C	T	139.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
9739	chrY	9981200	.	C	G	76.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.350e+
9740	chrY	9981201	.	C	A	76.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-4.700e-
9741	chrY	9981229	.	T	G	566.10	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-9.420e-
9742	chrY	9981231	.	A	G	91.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9743	chrY	9981243	.	C	G	116.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.381e+
9744	chrY	9981250	.	T	C	675.25	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.818;C
9745	chrY	9981252	.	A	T	48.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9746	chrY	9981253	.	C	T	1587.23	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
9747	chrY	9981258	.	A	C	1443.10	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
9748	chrY	9981262	.	C	A	489.17	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.273;C
9749	chrY	9981265	.	G	A	76.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.03;Cli
9750	chrY	9981269	.	G	A	384	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9751	chrY	9981274	.	T	G	655.66	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9752	chrY	9981284	.	C	G	76.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.297e+
9753	chrY	9981287	.	A	G	538.52	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9754	chrY	9981317	.	A	G	1372.96	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.50;Cli
9755	chrY	9981367	.	T	C	58.28	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
9756	chrY	9981376	.	A	C	3613.38	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.592;C
9757	chrY	9981390	.	T	C	301.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.609e+
9758	chrY	9981393	.	T	C	6023.82	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum=0.546;C
9759	chrY	9981395	.	G	C	6459.88	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=-6.350e+
9760	chrY	9981402	.	A	G	1104.95	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.626e
9761	chrY	9981403	.	G	A	1262.65	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-3.030e
9762	chrY	9981407	.	G	A,T	5796.82	PASS	AC=14,9;AF=0.241,0.155;AN=58;BaseQRankSum
9763	chrY	9981410	.	G	T,C	4920.79	PASS	AC=19,3;AF=0.279,0.044;AN=68;BaseQRankSum
9764	chrY	9981421	.	G	T	5600.18	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.124e+
9765	chrY	9981426	.	G	T	1791.94	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-3.240e
9766	chrY	9981449	.	C	T,G	3255.85	PASS	AC=19,8;AF=0.271,0.114;AN=70;BaseQRankSum
9767	chrY	9981475	.	C	G,T	7113.29	PASS	AC=26,9;AF=0.371,0.129;AN=70;BaseQRankSum
9768	chrY	9981481	.	G	A	1290.15	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-2.620e
9769	chrY	9981488	.	T	C	1874.73	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-3.140e
9770	chrY	9981496	.	C	G	5452.43	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-2.310e
9771	chrY	9981505	.	G	A	6996.40	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=-9.430e
9772	chrY	9981508	.	T	C	16426.03	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum
9773	chrY	9981514	.	C	A	1189.48	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.101;C
9774	chrY	9981543	.	G	A	258.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.796;C
9775	chrY	9981545	.	C	A	1896.99	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.577;C
9776	chrY	9981546	.	C	T	31.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9777	chrY	9981547	.	T	C	2876.35	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.731;C
9778	chrY	9981558	.	C	T	109.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.34;Cli
9779	chrY	9981563	.	G	A,*	667.72	PASS	AC=8,2;AF=0.118,0.029;AN=68;BaseQRankSum=
9780	chrY	9981566	.	C	T	46.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9781	chrY	9981568	.	C	A	288.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.742;C
9782	chrY	9981584	.	C	A	67.75	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9783	chrY	9981585	.	A	G	67.74	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
9784	chrY	9981725	.	G	C	554.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-2.120e-
9785	chrY	9981731	.	G	A	2288.14	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=0.00;C
9786	chrY	9981753	.	T	C	10364.33	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
9787	chrY	9981754	.	G	A	3833.17	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-2.130e
9788	chrY	9981785	.	C	G	29774.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
9789	chrY	9981816	.	A	G	11587.16	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
9790	chrY	9981819	.	G	T	10782.84	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
9791	chrY	9981826	.	T	C	11111.30	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
9792	chrY	9981839	.	G	T	7670.89	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-4.570e
9793	chrY	9981858	.	T	C	6176.80	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-2.480e
9794	chrY	9981897	.	C	T	5352.22	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=0.927;C
9795	chrY	9981898	.	A	G	30825.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
9796	chrY	9981913	.	A	T	199.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.22;Cli
9797	chrY	9981918	.	T	C	3136.90	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-4.000e
9798	chrY	9981962	.	A	T	31.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.26;Cli
9799	chrY	9981968	.	T	G	3298.79	PASS	AC=20;AF=0.333;AN=60;BaseQRankSum=-4.830e
9800	chrY	9981977	.	A	C	2418.77	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=0.589;C
9801	chrY	9981982	.	G	C	71.01	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
9802	chrY	9982000	.	C	T	522.33	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=1.67;Cli
9803	chrY	9982001	.	G	A	310.38	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=1.26;Cli
9804	chrY	9982009	.	T	G	143.83	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=

9805	chrY	9982010	.	C	T	93.83	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-9.220e-
9806	chrY	9982014	.	A	C	94.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=-6.000e-
9807	chrY	9982117	.	G	A	107.83	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.742;Cl
9808	chrY	9982139	.	A	C	355.23	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.762;C
9809	chrY	9982184	.	A	T	1231.19	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9810	chrY	9982205	.	T	C	1366.81	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9811	chrY	9982210	.	G	C	1311.25	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9812	chrY	9982211	.	G	A	1270.82	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9813	chrY	9982217	.	C	T	1221.11	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
9814	chrY	9982227	.	C	T	297.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.350e+
9815	chrY	9982273	.	G	A	1636.46	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.444e
9816	chrY	9982281	.	A	G	1359.84	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-1.648e
9817	chrY	9982299	.	G	C	1122.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-6.730e
9818	chrY	9982303	.	C	T	1016.62	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.457e
9819	chrY	9982342	.	T	C,*	284.40	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQRankSum=
9820	chrY	9982343	.	T	G,*	279.89	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQRankSum=
9821	chrY	9982356	.	C	A	660.85	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.24;Cli
9822	chrY	9982365	.	A	T	110.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.580e-
9823	chrY	9982377	.	C	G	798.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.05;Cli
9824	chrY	9982383	.	G	C	860.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-8.050e-
9825	chrY	9982393	.	A	G	982.03	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.297;Cl
9826	chrY	9982408	.	C	T	1025.58	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-2.700e-
9827	chrY	9982423	.	T	A	1037.63	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=-7.050e-
9828	chrY	9982452	.	T	G	878.68	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=-2.059e+
9829	chrY	9982455	.	T	A	879.98	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=-9.550e-
9830	chrY	9982494	.	T	C	224.82	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=-1.270e-
9831	chrY	9982528	.	G	A	487.16	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=0.510;Cl
9832	chrY	9982529	.	T	C	2317.64	PASS	AC=10;AF=0.500;AN=20;BaseQRankSum=1.21;Cl
9833	chrY	9982530	.	T	C	489.42	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=1.04;Cli
9834	chrY	9982536	.	T	G	408.26	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=-2.560e+
9835	chrY	9982540	.	T	A	35.97	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQRankSum=
9836	chrY	9982546	.	A	G	504.29	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=0.296;Cl
9837	chrY	9982556	.	C	T	509.67	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=1.20;Cli
9838	chrY	9982561	.	A	G	438.67	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=-1.529e+
9839	chrY	9982562	.	A	T	495.59	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=-9.400e-
9840	chrY	9982576	.	C	T	614.61	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=1.27;Cl
9841	chrY	9982578	.	A	G	614.34	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=0.887;Cl
9842	chrY	9982588	.	T	C	774.46	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=1.21;Cli
9843	chrY	9982589	.	A	T	776.46	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=0.258;Cl
9844	chrY	9982605	.	T	C	1019.46	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=-7.100e-
9845	chrY	9982606	.	G	C	1018.26	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=-2.096e+
9846	chrY	9982616	.	C	T	117.71	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=1.47;Cli
9847	chrY	9982636	.	T	C	381.10	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=-1.233e+
9848	chrY	9982662	.	A	G	304.57	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=-1.239e+
9849	chrY	9982669	.	C	A	47.74	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.731;Cl
9850	chrY	9982675	.	A	T	44.65	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
9851	chrY	9982684	.	G	A	127.84	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.854;Cl
9852	chrY	9982705	.	A	G	1090.82	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-2.573e+
9853	chrY	9982711	.	A	T	1054.73	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-2.310e-
9854	chrY	9982724	.	G	C	631.85	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=0.761;Cl
9855	chrY	9982743	.	C	T	431.47	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.269;Cl
9856	chrY	9982750	.	G	C	391.48	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.736;Cl
9857	chrY	9982759	.	T	G	116.02	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
9858	chrY	9982785	.	C	A	275.18	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.375;Cl
9859	chrY	9982817	.	G	C	120.20	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9860	chrY	9982845	.	T	G	13016.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
9861	chrY	9982851	.	G	A	14161.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
9862	chrY	9982852	.	T	C	98.79	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9863	chrY	9982856	.	C	T	73.72	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9864	chrY	9982869	.	C	G	300.72	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
9865	chrY	9982892	.	G	A	8391.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=-1.281e
9866	chrY	9982897	.	G	A	5601.82	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-7.480e
9867	chrY	9982900	.	C	A	964.68	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
9868	chrY	9982917	.	C	A	7719.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=-6.100e
9869	chrY	9982927	.	A	G	857.42	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum
9870	chrY	9982940	.	T	G	19978.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
9871	chrY	9982945	.	C	G	19151.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
9872	chrY	9982946	.	G	A	37.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9873	chrY	9982992	.	C	T	433	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.541;Cl
9874	chrY	9982993	.	A	G	3467.97	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-2.340e
9875	chrY	9983005	.	T	C	1998.31	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.852;C
9876	chrY	9983006	.	G	A	1999.88	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=0.572;C
9877	chrY	9983009	.	G	A	203.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.23;Cli
9878	chrY	9983012	.	A	T	2116.09	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=0.731;C
9879	chrY	9983014	.	G	A	57.47	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
9880	chrY	9983020	.	C	A	2281.99	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=-6.100e

9881	chrY	9983060	.	C	A	1197.17	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=-1.398e+
9882	chrY	9983063	.	A	T	62.91	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
9883	chrY	9983067	.	T	C	2043.80	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=-3.592e+
9884	chrY	9983076	.	G	T	354.41	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=0.298;Cl
9885	chrY	9983090	.	C	A	245.07	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=1.69;Cli
9886	chrY	9983091	.	G	A	1767.07	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=1.26;Cli
9887	chrY	9983098	.	T	C	1768.13	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=-2.986e+
9888	chrY	9983113	.	G	C	2178.86	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=1.33;Cli
9889	chrY	9983145	.	T	C	541.64	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=0.572;Cl
9890	chrY	9983147	.	C	T	104.05	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=-9.220e
9891	chrY	9983148	.	A	G	537.60	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=0.063;Cl
9892	chrY	9983154	.	T	C	400.11	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=0.220;Cl
9893	chrY	9983155	.	G	A	400.53	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=-1.457e+
9894	chrY	9983170	.	T	C	359.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.94;Cli
9895	chrY	9983171	.	T	A,C	490.13	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQRankSum=
9896	chrY	9983176	.	A	T,C	481.46	PASS	AC=2,2;AF=0.029,0.029;AN=68;BaseQRankSum=
9897	chrY	9983177	.	C	A	80.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.741;Cl
9898	chrY	9983179	.	G	A	277.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.067e+
9899	chrY	9983181	.	C	T	78.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-3.540e-
9900	chrY	9983189	.	T	C	133.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.577e+
9901	chrY	9983195	.	T	C	134.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.77;Cli
9902	chrY	9983204	.	A	C	150.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-9.640e+
9903	chrY	9983214	.	C	A	127.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=2.01;Cli
9904	chrY	9983345	.	G	C	237.57	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.945;Cl
9905	chrY	9983367	.	A	G	193.47	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.296e+
9906	chrY	9983373	.	A	G	1383.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.29;Cli
9907	chrY	9983383	.	A	G	293.04	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-1.423e+
9908	chrY	9983416	.	A	C	371.58	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-5.890e-
9909	chrY	9983427	.	G	T	195.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.514;Cl
9910	chrY	9983428	.	T	C	475.53	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.567;Cl
9911	chrY	9983440	.	T	C	459.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.495e+
9912	chrY	9983480	.	T	C	520.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.350;Cl
9913	chrY	9983490	.	A	G	1306.23	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.425;C
9914	chrY	9983512	.	T	C	182.98	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
9915	chrY	9983529	.	C	G	142.12	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.354;Cl
9916	chrY	9983572	.	T	G	30.99	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9917	chrY	9983581	.	T	A	64.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.347;Cl
9918	chrY	9983612	.	A	G	1008.31	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.579;C
9919	chrY	9983635	.	T	G	2278.19	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.868e
9920	chrY	9983676	.	G	A	3327.17	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.577e
9921	chrY	9983698	.	A	C	3039.09	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-9.620e
9922	chrY	9983719	.	C	T	300.85	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
9923	chrY	9983724	.	C	T	2638.60	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=0.401;C
9924	chrY	9983731	.	G	A	1904.09	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.935;C
9925	chrY	9983737	.	T	C	1394.22	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.822;C
9926	chrY	9983755	.	G	A	83.55	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9927	chrY	9983764	.	G	T	54.39	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9928	chrY	9983910	.	C	A	334.56	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=0.070;Cl
9929	chrY	9983924	.	T	G,C	1159.94	PASS	AC=6,4;AF=0.100,0.067;AN=60;BaseQRankSum=
9930	chrY	9983925	.	G	T	666.49	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=-1.187e+
9931	chrY	9983930	.	T	A	677.98	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=-6.390e-
9932	chrY	9983931	.	T	C	1127.93	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=-7.510e-
9933	chrY	9983938	.	C	A	792.82	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=0.727;Cl
9934	chrY	9983965	.	C	T	297.46	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=1.42;Cli
9935	chrY	9983966	.	G	A	738.24	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=1.23;Cli
9936	chrY	9983976	.	C	A	741.60	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=1.52;Cli
9937	chrY	9983987	.	A	T,*	531.99	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQRankSum=
9938	chrY	9983992	.	T	C,*	478.87	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQRankSum=
9939	chrY	9983993	.	G	A,*	471.12	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQRankSum=
9940	chrY	9984003	.	T	C,*	406.49	PASS	AC=1,2;AF=0.018,0.036;AN=56;BaseQRankSum=
9941	chrY	9984004	.	C	G,*	569.87	PASS	AC=2,2;AF=0.036,0.036;AN=56;BaseQRankSum=
9942	chrY	9984005	.	A	G,*	594.89	PASS	AC=2,2;AF=0.034,0.034;AN=58;BaseQRankSum=
9943	chrY	9984069	.	A	G	631.25	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=1.62;Cli
9944	chrY	9984071	.	C	T	581.14	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.56;Cli
9945	chrY	9984072	.	A	G	601.59	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=1.38;Cli
9946	chrY	9984088	.	C	A	747.20	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.404;Cl
9947	chrY	9984103	.	C	T	3050.07	PASS	AC=12;AF=0.375;AN=32;BaseQRankSum=-6.780e
9948	chrY	9984110	.	T	G	3029.89	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.030e
9949	chrY	9984117	.	A	C	47.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9950	chrY	9984141	.	C	G	5361.52	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-5.210e
9951	chrY	9984147	.	T	C	7575.34	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-8.310e
9952	chrY	9984152	.	A	G	391.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
9953	chrY	9984155	.	C	T	5362.98	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=0.900;C
9954	chrY	9984159	.	T	C	5228.11	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-3.280e
9955	chrY	9984172	.	T	C	1624.97	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-5.800e
9956	chrY	9984183	.	T	C	4752.72	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.880e

9957	chrY	9984184	.	T	G	4689.21	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-1.531e
9958	chrY	9984187	.	T	C	2237.69	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.102e
9959	chrY	9984188	.	G	A	640.50	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
9960	chrY	9984190	.	C	T	607.29	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
9961	chrY	9984194	.	T	A	3842.44	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=0.630;C
9962	chrY	9984199	.	A	T	3245.95	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=1.29;C
9963	chrY	9984200	.	C	T	3165.91	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.682;C
9964	chrY	9984201	.	C	T	3051.93	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.634;C
9965	chrY	9984228	.	C	T	629.12	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.729;C
9966	chrY	9984231	.	T	C	4833.78	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=1.20;C
9967	chrY	9984236	.	C	G,*	5720.11	PASS	AC=18,5;AF=0.257,0.071;AN=70;BaseQRankSum
9968	chrY	9984239	.	A	C	8072.58	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=0.781;C
9969	chrY	9984265	.	T	A	871.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.460;C
9970	chrY	9984270	.	T	C	1511.68	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.992;C
9971	chrY	9984276	.	G	C	1583.17	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.320;C
9972	chrY	9984306	.	A	C	2876.13	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=1.40;C
9973	chrY	9984318	.	C	T	5938.59	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-2.130e
9974	chrY	9984319	.	G	A	2559.52	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=1.62;C
9975	chrY	9984323	.	G	A	145.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
9976	chrY	9984331	.	A	G	4776.70	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.322;C
9977	chrY	9984344	.	C	T	576.86	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-5.370e
9978	chrY	9984346	.	C	T	749.75	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.20;C
9979	chrY	9984372	.	A	C	3112.34	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=-5.710e
9980	chrY	9984382	.	T	A	102.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9981	chrY	9984384	.	A	C	3076.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.321;C
9982	chrY	9984385	.	A	G	105.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.84;C
9983	chrY	9984394	.	T	G	117.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.489e+
9984	chrY	9984401	.	A	G	2623.42	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-9.800e
9985	chrY	9984412	.	T	C	1041.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-9.600e-
9986	chrY	9984424	.	C	G	133.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.482;C
9987	chrY	9984433	.	T	C	874.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.168;C
9988	chrY	9984448	.	T	C	1188.73	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.346;C
9989	chrY	9984449	.	T	C	268.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.790e-
9990	chrY	9984452	.	G	C	1168.02	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-4.260e-
9991	chrY	9984463	.	C	T	433.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-5.100e-
9992	chrY	9984477	.	C	T	2089.48	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.717;C
9993	chrY	9984482	.	C	T,A	5922.89	PASS	AC=18,13;AF=0.257,0.186;AN=70;BaseQRankSum
9994	chrY	9984484	.	T	C	12238.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
9995	chrY	9984488	.	C	T	1850.27	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.298;C
9996	chrY	9984493	.	T	C	42.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
9997	chrY	9984494	.	G	A	42.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
9998	chrY	9984520	.	C	A	3341.96	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-4.520e
9999	chrY	9984534	.	C	T	920.57	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
10000	chrY	9984536	.	G	C	433.23	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
10001	chrY	9984544	.	A	T	2576.31	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQRankSum
10002	chrY	9984565	.	C	T	11825.36	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
10003	chrY	9984567	.	G	A	156.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10004	chrY	9984572	.	G	A	12244.32	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
10005	chrY	9984585	.	G	A	10616.43	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
10006	chrY	9984599	.	C	T	1463	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10007	chrY	9984601	.	C	G	5018.31	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-2.670e
10008	chrY	9984602	.	C	T	9054.14	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.147;C
10009	chrY	9984607	.	G	C	1401.34	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10010	chrY	9984619	.	G	C	157.93	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10011	chrY	9984621	.	G	T	7216.48	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=1.63;C
10012	chrY	9984623	.	T	A	10355.76	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
10013	chrY	9984635	.	T	C	6114.59	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.327;C
10014	chrY	9984658	.	G	A	155.07	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10015	chrY	9984663	.	A	T	4056.47	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=0.372;C
10016	chrY	9984669	.	C	G	793.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=2.67;C
10017	chrY	9984674	.	A	T,G	1516.34	PASS	AC=10,4;AF=0.143,0.057;AN=70;BaseQRankSum
10018	chrY	9984679	.	T	A	1479.65	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=-1.060e
10019	chrY	9984689	.	C	A	3317.67	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.073;C
10020	chrY	9984690	.	A	C	607.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=2.22;C
10021	chrY	9984699	.	T	G	6018.92	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=1.04;C
10022	chrY	9984710	.	G	A	3763.98	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=1.23;C
10023	chrY	9984721	.	T	G	3406.61	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.23;C
10024	chrY	9984725	.	T	C	883.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.06;C
10025	chrY	9984726	.	A	T	1819.71	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.09;C
10026	chrY	9984734	.	T	C	3587.62	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.52;C
10027	chrY	9984735	.	G	A	1988.39	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.62;C
10028	chrY	9984743	.	G	A	1072.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.133;C
10029	chrY	9984752	.	A	C	4337.29	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=1.42;C
10030	chrY	9984753	.	T	C	1866.14	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=1.58;C
10031	chrY	9984755	.	T	G	1958.76	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.210e-
10032	chrY	9984757	.	T	C	4516.34	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=0.293;C

10033	chrY	9984766	.	C	T	2625.15	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=3.89;Cli
10034	chrY	9984771	.	T	C	2828.19	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=2.42;Cli
10035	chrY	9984772	.	G	A	2825.13	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=1.30;Cli
10036	chrY	9984786	.	C	T	6362.79	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=1.67;Cl
10037	chrY	9984793	.	T	C	18581.75	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
10038	chrY	9984795	.	C	T	725.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-7.310e-
10039	chrY	9984796	.	C	T	189.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.311e+
10040	chrY	9984808	.	G	A,T	11893.52	PASS	AC=28,2;AF=0.412,0.029;AN=68;Base
10041	chrY	9984813	.	C	A	5842.58	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-1.020e
10042	chrY	9984818	.	G	C,T	4179.12	PASS	AC=18,2;AF=0.257,0.029;AN=70;BaseQRankSum
10043	chrY	9984828	.	G	T	1637.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.990e
10044	chrY	9984833	.	G	C	1671.26	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.203e+
10045	chrY	9984835	.	G	C	4729.32	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-4.220e
10046	chrY	9984840	.	G	A	4880.23	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-8.620e
10047	chrY	9984842	.	C	T	8057.14	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=1.49;Cl
10048	chrY	9984843	.	G	A	11619.44	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
10049	chrY	9984845	.	G	A	11721.39	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
10050	chrY	9984856	.	T	C	1508.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-2.156e+
10051	chrY	9984864	.	G	A	20486.89	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=
10052	chrY	9984875	.	C	T	455.18	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10053	chrY	9984878	.	C	T	10436.18	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
10054	chrY	9984886	.	A	T	1059.85	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-6.190e-
10055	chrY	9984888	.	T	G	35606.55	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
10056	chrY	9984898	.	C	A,T	8197.15	PASS	AC=9,21;AF=0.129,0.300;AN=70;BaseQRankSum
10057	chrY	9984913	.	G	A	3822.35	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.967;C
10058	chrY	9984915	.	G	A	3859.29	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-5.390e-
10059	chrY	9984927	.	C	A	6256.69	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=1.40;Cl
10060	chrY	9984928	.	G	A	8603.89	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.736;C
10061	chrY	9984931	.	G	A	86.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.09;Cli
10062	chrY	9984932	.	C	A	6498.97	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.296;C
10063	chrY	9984939	.	C	T,*	2719.90	PASS	AC=14,2;AF=0.200,0.029;AN=70;BaseQRankSum
10064	chrY	9984940	.	T	C	2572.69	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-8.900e-
10065	chrY	9984946	.	G	A	2185.61	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.421;Cl
10066	chrY	9984949	.	G	A,T	8163.71	PASS	AC=14,8;AF=0.200,0.114;AN=70;BaseQRankSum
10067	chrY	9984955	.	G	T	9639.65	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.679;C
10068	chrY	9984959	.	A	G	18488.54	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
10069	chrY	9984961	.	G	A	18307.37	PASS	AC=30;AF=0.469;AN=64;BaseQRankSum=
10070	chrY	9984965	.	C	T	4818.73	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.00;Cl
10071	chrY	9984971	.	C	T	6219.20	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.550e-
10072	chrY	9984976	.	T	G	3824.25	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-3.230e-
10073	chrY	9984978	.	A	G	1574.91	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.747;Cl
10074	chrY	9984982	.	G	T	453.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-7.170e-
10075	chrY	9984983	.	G	C	5905.14	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-2.010e-
10076	chrY	9984985	.	G	A	370.47	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-8.700e-
10077	chrY	9984989	.	A	G	23068.16	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
10078	chrY	9984991	.	A	T	3867.92	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.00;Cl
10079	chrY	9984992	.	G	T	189.98	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10080	chrY	9985004	.	C	A	2523.59	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-6.340e-
10081	chrY	9985006	.	G	C	28777.03	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
10082	chrY	9985011	.	T	A	1874.52	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.058;C
10083	chrY	9985013	.	G	A	1855.63	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.289;C
10084	chrY	9985030	.	G	C	1711.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.73;Cli
10085	chrY	9985033	.	G	A	10010.08	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
10086	chrY	9985040	.	T	G	12348.52	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
10087	chrY	9985041	.	G	A	210.14	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
10088	chrY	9985046	.	G	A	1607.15	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.419;Cl
10089	chrY	9985048	.	T	A	2243.13	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.670e-
10090	chrY	9985050	.	G	A	1548.13	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.707;Cl
10091	chrY	9985055	.	T	C	9649.12	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-1.481e-
10092	chrY	9985056	.	G	A	391.43	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
10093	chrY	9985077	.	G	A	8115.15	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.200;C
10094	chrY	9985090	.	T	C	36.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10095	chrY	9985106	.	T	C	3760.22	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=-7.500e-
10096	chrY	9985108	.	C	A	516.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.77;Cli
10097	chrY	9985112	.	C	T	2054.11	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum=
10098	chrY	9985116	.	C	A	14609	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=-7.540e-
10099	chrY	9985117	.	T	C	825.20	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
10100	chrY	9985123	.	A	G	7537.32	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-3.580e-
10101	chrY	9985124	.	T	A	440.27	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
10102	chrY	9985132	.	T	C,G	14781.29	PASS	AC=21,15;AF=0.300,0.214;AN=70;Bas
10103	chrY	9985135	.	G	A	307.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.839;Cl
10104	chrY	9985140	.	G	A	913.04	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.982e+
10105	chrY	9985151	.	G	A	5058.96	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=0.831;C
10106	chrY	9985153	.	T	C	2721.04	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-7.360e-
10107	chrY	9985162	.	G	T,C	4707.11	my_snp_filter	AC=16,3;AF=0.235,0.044;AN=68;Base
10108	chrY	9985163	.	C	T	2273.84	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.441;C

10109	chrY	9985166	.	C	G	9399.96	my_snp_filter	AC=31;AF=0.470;AN=66;BaseQRankSum
10110	chrY	9985170	.	G	T	1758.35	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=-1.730e
10111	chrY	9985171	.	G	T	1731.45	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.625;C
10112	chrY	9985193	.	G	T	802.44	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10113	chrY	9985211	.	C	A	258.10	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.796;C
10114	chrY	9985212	.	G	C	256.78	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-6.500e-
10115	chrY	9985336	.	G	C	41.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.580;C
10116	chrY	9985371	.	T	C	91.26	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10117	chrY	9985415	.	A	G	203.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.731;C
10118	chrY	9985420	.	G	C	257.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.48;C
10119	chrY	9985446	.	T	G	143.67	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=0.756;C
10120	chrY	9985474	.	T	C	136.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.714;C
10121	chrY	9985475	.	T	A	136.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.067;C
10122	chrY	9985602	.	T	C	78.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=0.00;C
10123	chrY	9985612	.	G	A	2159.53	my_snp_filter	AC=24;AF=0.353;AN=68;BaseQRankSum
10124	chrY	9985624	.	G	A,*	3369.54	my_snp_filter	AC=25,1;AF=0.368,0.015;AN=68;Base
10125	chrY	9985631	.	A	G	808.53	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.194e
10126	chrY	9985662	.	G	T	2488.18	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=-1.580e
10127	chrY	9985667	.	C	G	2454.38	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=-5.970e
10128	chrY	9985676	.	G	T	194.18	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
10129	chrY	9985699	.	A	G	91.14	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQRankSum=
10130	chrY	9985745	.	C	T	458.51	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=0.861;C
10131	chrY	9985752	.	C	T	310.34	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=0.867;C
10132	chrY	9985757	.	A	G	60.61	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=1.53;C
10133	chrY	9985761	.	C	T	61.99	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=1.53;C
10134	chrY	9985787	.	C	A	31.03	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
10135	chrY	9985799	.	A	T	1162.50	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=1.51;C
10136	chrY	9985805	.	G	T	893.85	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=-6.300e-
10137	chrY	9985810	.	C	T	91.05	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
10138	chrY	9985811	.	A	G	1560.19	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=-2.436e+
10139	chrY	9985815	.	C	A	131.02	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
10140	chrY	9985817	.	C	T	258.81	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-6.270e-
10141	chrY	9985825	.	A	G	133.53	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
10142	chrY	9985833	.	T	C	44.32	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
10143	chrY	9985849	.	T	A	313.73	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=-2.060e-
10144	chrY	9985850	.	A	C	571.17	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=0.525;C
10145	chrY	9985855	.	T	C	135.47	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=2.10;C
10146	chrY	9985857	.	C	A	364.87	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=-7.270e-
10147	chrY	9985863	.	T	C	577.93	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=-9.890e-
10148	chrY	9985868	.	G	C	514.08	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=-4.680e-
10149	chrY	9985869	.	T	A	1877.88	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=-1.540e-
10150	chrY	9985879	.	T	C	948.19	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=-2.688e+
10151	chrY	9985882	.	G	T	2247.29	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=-1.733e-
10152	chrY	9985886	.	C	T	5604.27	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=1.03;C
10153	chrY	9985891	.	G	A,T	1434.26	PASS	AC=5,4;AF=0.081,0.065;AN=62;BaseQRankSum=
10154	chrY	9985905	.	A	G	4419.02	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=-1.759e-
10155	chrY	9985906	.	G	C	1659.32	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=0.133;C
10156	chrY	9985921	.	T	C	530.71	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.256;C
10157	chrY	9985945	.	C	T	4539.44	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.406;C
10158	chrY	9985949	.	T	A	7150.53	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=-2.450e-
10159	chrY	9985956	.	G	A	44.99	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
10160	chrY	9985961	.	T	C	830.25	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-7.470e-
10161	chrY	9985970	.	A	G	5762.95	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=-8.250e-
10162	chrY	9985979	.	T	G	473.27	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-2.360e-
10163	chrY	9985986	.	G	T	330.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.36;C
10164	chrY	9985994	.	T	A	172.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-3.900e-
10165	chrY	9986015	.	A	T	1855.36	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=-5.460e-
10166	chrY	9986031	.	A	C	1567.04	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.118;C
10167	chrY	9986032	.	C	A	1519.77	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.354;C
10168	chrY	9986041	.	T	C	46.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-5.560e-
10169	chrY	9986043	.	T	A	717.49	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.321;C
10170	chrY	9986056	.	T	C	311.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.744;C
10171	chrY	9986057	.	T	C	269.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.678;C
10172	chrY	9986059	.	A	T	64.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-7.860e-
10173	chrY	9986061	.	T	C	172.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.69;C
10174	chrY	9986064	.	C	T	183.47	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=1.27;C
10175	chrY	9986077	.	G	A	320.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=2.41;C
10176	chrY	9986087	.	A	G	366.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.186;C
10177	chrY	9986111	.	A	G,T	1302.84	my_snp_filter	AC=2,8;AF=0.029,0.114;AN=70;BaseQ
10178	chrY	9986124	.	G	A	676.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10179	chrY	9986147	.	G	C	2738.37	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10180	chrY	9986155	.	C	A	668.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.17;C
10181	chrY	9986157	.	G	A	2159.47	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
10182	chrY	9986176	.	A	G	841.28	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.877;C
10183	chrY	9986197	.	C	A	2209.03	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
10184	chrY	9986199	.	T	C	427.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-2.325e+

10185	chrY	9986211	.	C	T	1121.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-7.880e-
10186	chrY	9986233	.	A	T	70.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.170e-
10187	chrY	9986238	.	G	T	93.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-7.200e-
10188	chrY	9986254	.	A	T	107.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=-
10189	chrY	9986255	.	T	C	1887.54	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.160e-
10190	chrY	9986257	.	C	T	1887.57	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.848e+
10191	chrY	9986272	.	G	C	1540.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-3.440e-
10192	chrY	9986273	.	A	C	1858.73	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.681e+
10193	chrY	9986278	.	A	G	1802.71	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-2.140e+
10194	chrY	9986279	.	T	C	1486.43	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-2.976e+
10195	chrY	9986300	.	G	A	86.23	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=0.480;Cl
10196	chrY	9986322	.	A	T	75.76	PASS	AC=2;AF=0.043;AN=46;DP=220;FS=0.000;Inbre
10197	chrY	9986362	.	G	T	51.39	PASS	AC=2;AF=0.056;AN=36;DP=207;FS=0.000;Inbre
10198	chrY	9986368	.	A	C	57.82	PASS	AC=2;AF=0.053;AN=38;DP=207;FS=0.000;Inbre
10199	chrY	9986369	.	G	T	56.82	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=0.128;Cl
10200	chrY	9986413	.	C	T	82.03	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=-8.090e-
10201	chrY	9986414	.	A	G	81.35	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-3.022e+
10202	chrY	9986423	.	A	G	83.69	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-8.510e-
10203	chrY	9986439	.	T	C	84.83	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=-2.105e+
10204	chrY	9986441	.	G	A	80.92	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=0.261;Cl
10205	chrY	9986448	.	C	T	119.78	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=0.071;Cl
10206	chrY	9986449	.	A	G	124.64	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=-7.440e-
10207	chrY	9986472	.	A	C	121.48	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=-5.500e-
10208	chrY	9986489	.	T	C	207.32	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=0.434;Cl
10209	chrY	9986492	.	G	A	159.06	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=-1.519e+
10210	chrY	9986504	.	A	G	156.30	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=-
10211	chrY	9986517	.	T	A	41.28	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=-1.519e+
10212	chrY	9986518	.	A	C	212.86	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=-1.345e+
10213	chrY	9986521	.	T	G	560.19	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-1.271e
10214	chrY	9986570	.	A	C	487.87	PASS	my_snp_filter AC=6;AF=0.086;AN=70;BaseQRankSum=
10215	chrY	9986604	.	G	A	37.98	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQRankSum=0.350;Cl
10216	chrY	9986635	.	C	A	642.60	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=1.36;Cli
10217	chrY	9986636	.	C	T	287.96	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=0.651;Cl
10218	chrY	9986641	.	G	A	607.53	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
10219	chrY	9986649	.	G	T	45.10	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
10220	chrY	9986666	.	G	A	188.22	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=1.90;Cli
10221	chrY	9986667	.	C	A	226.81	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=0.280;Cl
10222	chrY	9986673	.	A	C	205.68	PASS	my_snp_filter AC=2;AF=0.029;AN=68;BaseQRankSum=
10223	chrY	9986699	.	C	T	52.67	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=0.404;Cl
10224	chrY	9986700	.	A	G	206.50	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=-8.630e-
10225	chrY	9986705	.	A	T	250.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
10226	chrY	9986728	.	A	T	38.14	my_snp_filter	AC=8,16;AF=0.118,0.235;AN=68;BaseQRankSum
10227	chrY	9986769	.	A	T,C	3544.14	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=-5.530e
10228	chrY	9986770	.	G	A	2821.89	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=-5.810e
10229	chrY	9986779	.	T	G	5933.38	PASS	my_snp_filter AC=2;AF=0.029;AN=70;BaseQRankSum=
10230	chrY	9986788	.	C	T	75.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=-3.180e
10231	chrY	9986789	.	A	G	71.98	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum=0.427;C
10232	chrY	9986790	.	A	G	5658.98	PASS	AC=25,4;AF=0.368,0.059;AN=68;BaseQRankSum
10233	chrY	9986795	.	G	T	2274.66	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=-7.360e
10234	chrY	9986812	.	T	C,*	4187.04	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=-7.360e
10235	chrY	9986817	.	C	G	3413.24	PASS	AC=20,11;AF=0.294,0.162;AN=68;BaseQRankSu
10236	chrY	9986819	.	G	A	3491.94	PASS	my_snp_filter AC=3;AF=0.044;AN=68;BaseQRankSum=
10237	chrY	9986824	.	T	C,A	6293.28	PASS	my_snp_filter AC=6;AF=0.086;AN=70;BaseQRankSum=
10238	chrY	9986828	.	C	T	62.56	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum=-4.520e
10239	chrY	9986844	.	A	G	177.82	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.300e+
10240	chrY	9986849	.	A	G	1757.24	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-1.191e+
10241	chrY	9986861	.	G	T	580.44	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.460;Cl
10242	chrY	9986865	.	G	A	590.71	PASS	AC=4,3;AF=0.061,0.045;AN=66;BaseQRankSum=
10243	chrY	9986869	.	G	T	587.62	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=-1.617e+
10244	chrY	9986873	.	C	G,*	420.22	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.213e+
10245	chrY	9986876	.	G	A	239.62	PASS	AC=14,3;AF=0.206,0.044;AN=68;BaseQRankSum
10246	chrY	9986880	.	G	T	209.44	PASS	AC=20,3;AF=0.294,0.044;AN=68;BaseQRankSum
10247	chrY	9986884	.	G	A,*	1509.03	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-2.130e
10248	chrY	9986886	.	C	G,A	3825.32	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-6.700e
10249	chrY	9986891	.	C	T	1532.25	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-5.360e
10250	chrY	9986893	.	C	T	3520.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-7.270e-
10251	chrY	9986896	.	G	C	6872.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.435e+
10252	chrY	9986899	.	A	G	280.22	PASS	my_snp_filter AC=4;AF=0.059;AN=68;BaseQRankSum=
10253	chrY	9986907	.	T	C	288.57	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=0.867;Cl
10254	chrY	9986938	.	G	T	91.79	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=0.00;Cli
10255	chrY	9986943	.	A	G	532.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.200e-
10256	chrY	9986969	.	A	T	347.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.124;Cl
10257	chrY	9986970	.	G	A	81.45	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=1.25;Cli
10258	chrY	9986978	.	A	T	200.70	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.480;Cl
10259	chrY	9987002	.	C	A	142.62	PASS	
10260	chrY	9987006	.	G	A	187.72	PASS	

10261	chrY	9987084	.	C	G	52.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10262	chrY	9987132	.	T	C	46.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.709e+
10263	chrY	9987134	.	C	T	46.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.071e+
10264	chrY	9987144	.	G	C	49.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-2.526e+
10265	chrY	9987152	.	C	T	52.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.217;Cl
10266	chrY	9987246	.	T	G	524.36	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-1.271e
10267	chrY	9987268	.	A	G	34.42	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10268	chrY	9987295	.	G	C	800.30	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.061e
10269	chrY	9987332	.	G	A	128.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10270	chrY	9987343	.	C	T	3217.88	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQRankSum=
10271	chrY	9987350	.	A	G	1805.13	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum=
10272	chrY	9987366	.	T	A	1513.81	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum=
10273	chrY	9987384	.	C	T	90.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10274	chrY	9987406	.	A	G	286.11	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.888;Cl
10275	chrY	9987414	.	A	G	647.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=2.35;Cli
10276	chrY	9987421	.	C	G	90.18	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10277	chrY	9987429	.	C	T	2360.50	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.473;C
10278	chrY	9987431	.	G	A	49.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10279	chrY	9987449	.	G	A	2554.43	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-8.040e
10280	chrY	9987457	.	G	A	73.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.416e+
10281	chrY	9987464	.	C	T	2632.66	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-3.540e
10282	chrY	9987479	.	C	G	2514.16	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.927e
10283	chrY	9987515	.	T	G,C	29337.18	PASS	AC=33,3;AF=0.471,0.043;AN=70;Base
10284	chrY	9987518	.	T	C	1188.02	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
10285	chrY	9987521	.	G	A	2235.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-8.000e
10286	chrY	9987528	.	A	G	23384.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
10287	chrY	9987529	.	G	T	10100.95	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
10288	chrY	9987531	.	G	A	660.87	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
10289	chrY	9987533	.	G	A	15598.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
10290	chrY	9987536	.	T	A	1465.94	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-9.230e
10291	chrY	9987578	.	T	C	4306.53	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=0.839;C
10292	chrY	9987586	.	C	T	2141.38	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=0.729;C
10293	chrY	9987616	.	C	G	6350.73	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=0.358;C
10294	chrY	9987619	.	T	C	1643.35	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.175e
10295	chrY	9987623	.	G	A	1140.39	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.791;Cl
10296	chrY	9987629	.	C	T	6179.88	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.598;C
10297	chrY	9987630	.	A	G	2193.23	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=0.639;C
10298	chrY	9987636	.	T	C	2858.13	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-1.763e
10299	chrY	9987639	.	C	A	2993.23	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=-1.171e
10300	chrY	9987647	.	A	C	5623.25	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=-1.444e
10301	chrY	9987656	.	G	A	2313.86	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.315;C
10302	chrY	9987657	.	G	A	171.23	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
10303	chrY	9987697	.	C	T	37.24	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=1.23;Cli
10304	chrY	9987721	.	C	T	1239.49	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=0.821;C
10305	chrY	9987733	.	T	G	386.36	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
10306	chrY	9987748	.	A	G	103.65	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10307	chrY	9987775	.	A	C	401.59	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=0.322;Cl
10308	chrY	9987776	.	T	C	96.90	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=0.322;Cl
10309	chrY	9987783	.	G	T	107.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.307e+
10310	chrY	9987794	.	G	A	649.06	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.736;Cl
10311	chrY	9987802	.	G	A	4212.53	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=1.16;Cl
10312	chrY	9987810	.	A	G	7959.19	PASS	AC=31;AF=0.484;AN=64;BaseQRankSum=0.115;C
10313	chrY	9987811	.	T	C	8350.19	PASS	AC=31;AF=0.484;AN=64;BaseQRankSum=-1.123e
10314	chrY	9987817	.	A	C,G	8123.99	PASS	AC=25,6;AF=0.379,0.091;AN=66;BaseQRankSum=
10315	chrY	9987829	.	A	T	163.53	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10316	chrY	9987834	.	T	A,C	9818.54	PASS	AC=29,7;AF=0.426,0.103;AN=68;BaseQRankSum=
10317	chrY	9987835	.	G	T	1568.09	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=-7.360e
10318	chrY	9987845	.	G	T	2288.04	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.087e
10319	chrY	9987855	.	T	C	1255.93	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-2.094e
10320	chrY	9987856	.	C	A	285.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-8.760e-
10321	chrY	9987896	.	T	C	2302.25	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-2.580e
10322	chrY	9987897	.	C	T	28070.16	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
10323	chrY	9987901	.	G	C	8172.87	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-4.510e
10324	chrY	9987928	.	G	A	2206.66	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-9.640e
10325	chrY	9987932	.	T	C	18110.62	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
10326	chrY	9987944	.	A	G	140.53	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=1.27;Cli
10327	chrY	9987951	.	T	C	10395.97	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
10328	chrY	9987958	.	G	A	256.12	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQRankSum=
10329	chrY	9987960	.	T	G	43.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.701e+
10330	chrY	9987983	.	G	A	806.38	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.990;Cl
10331	chrY	9988003	.	G	A	968.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.750e-
10332	chrY	9988014	.	A	G	641.04	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.383;Cl
10333	chrY	9988025	.	A	G	1034.54	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=0.675;C
10334	chrY	9988037	.	G	A	438.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.762;Cl
10335	chrY	9988059	.	G	C	266.69	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=-1.470e+
10336	chrY	9988060	.	A	T	1678.61	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=-2.870e

10337	chrY	9988064	.	T	C	1710.15	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=0.00;C
10338	chrY	9988065	.	C	G	106.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.485;C
10339	chrY	9988067	.	C	A	290.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.054e+
10340	chrY	9988071	.	C	G	2375.79	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-6.940e
10341	chrY	9988072	.	C	T	324.33	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.335e+
10342	chrY	9988085	.	C	T	62.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10343	chrY	9988093	.	G	A	65.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10344	chrY	9988100	.	G	A	1308.85	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-5.740e
10345	chrY	9988101	.	A	T	2502.25	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-7.170e
10346	chrY	9988125	.	T	C	2207.69	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=0.00;C
10347	chrY	9988133	.	C	A	106.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-7.810e
10348	chrY	9988137	.	A	T	2387.69	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=-1.240e
10349	chrY	9988140	.	G	T	2298.14	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=1.40;C
10350	chrY	9988149	.	C	T	4197.62	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=0.856;C
10351	chrY	9988162	.	C	T	91.17	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
10352	chrY	9988169	.	A	G	990.42	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
10353	chrY	9988170	.	G	A	89.21	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
10354	chrY	9988198	.	A	G	392.75	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10355	chrY	9988202	.	A	G	844.91	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
10356	chrY	9988239	.	C	A	40.57	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
10357	chrY	9988265	.	T	C	188.70	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=0.787;C
10358	chrY	9988271	.	A	G	157.34	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-2.250e+
10359	chrY	9988276	.	C	T	157.51	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.20;C
10360	chrY	9988277	.	A	G	160.22	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=1.70;C
10361	chrY	9988286	.	T	C	167.47	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=1.22;C
10362	chrY	9988305	.	G	A	89.84	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=-1.590e-
10363	chrY	9988309	.	G	A	95.14	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=-9.100e-
10364	chrY	9988313	.	C	T	119.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=2.24;C
10365	chrY	9988314	.	T	G	120.09	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=-1.212e+
10366	chrY	9988387	.	A	G	830.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.380e+
10367	chrY	9988392	.	A	G	817.44	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.733e+
10368	chrY	9988430	.	A	G	81.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10369	chrY	9989179	.	G	A	212.41	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-9.670e-
10370	chrY	9989220	.	C	A	608.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.067;C
10371	chrY	9989221	.	A	G	608.25	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-7.500e-
10372	chrY	9989222	.	C	G	253.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-9.220e-
10373	chrY	9989230	.	G	A	236.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.180e-
10374	chrY	9989242	.	A	G	264.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-5.460e-
10375	chrY	9989244	.	T	A	290.44	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.588e+
10376	chrY	9989254	.	A	C	222.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.18;C
10377	chrY	9989257	.	G	T	147.85	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.632;C
10378	chrY	9989261	.	A	G	312.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.751;C
10379	chrY	9989400	.	G	A	45.50	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
10380	chrY	9989435	.	T	C	57.62	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
10381	chrY	9989446	.	G	A	400.56	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=-7.360e-
10382	chrY	9989474	.	G	C	136.22	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.742;C
10383	chrY	9989504	.	A	C	94.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.203e+
10384	chrY	9989530	.	T	C	85.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-8.690e-
10385	chrY	9989615	.	G	A	13804.96	PASS	AC=70;AF=1.00;AN=70;DP=448;FS=0.0
10386	chrY	9989842	.	G	A	707.72	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.313;C
10387	chrY	9989853	.	C	T	739.54	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.245;C
10388	chrY	9989873	.	C	A	2111.37	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=0.034;C
10389	chrY	9989878	.	C	A	2067.55	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=-5.260e
10390	chrY	9989903	.	T	C	1482.56	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=0.00;C
10391	chrY	9989940	.	A	G	36.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.231e+
10392	chrY	9989941	.	G	T	1146.03	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-6.100e
10393	chrY	9989945	.	A	G	1083.66	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.538;C
10394	chrY	9989995	.	G	A	40.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10395	chrY	9990000	.	T	A	36.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10396	chrY	9990058	.	T	C	905.14	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=0.296;C
10397	chrY	9990103	.	C	T	2470.87	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-2.740e
10398	chrY	9990135	.	A	C	5536.45	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-6.350e
10399	chrY	9990161	.	T	C	1565.05	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-1.768e
10400	chrY	9990200	.	G	A	620.38	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=0.406;C
10401	chrY	9990286	.	T	C	60.47	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=-2.647e+
10402	chrY	9990306	.	T	C	183.92	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=1.23;C
10403	chrY	9990311	.	C	T	61.26	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-2.170e-
10404	chrY	9990314	.	C	T	57.35	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-9.380e-
10405	chrY	9990337	.	T	C	128.19	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=0.953;C
10406	chrY	9990348	.	T	C	133.36	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=1.25;C
10407	chrY	9990349	.	G	A	81.86	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=0.693;C
10408	chrY	9990357	.	A	T	152.33	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=0.914;C
10409	chrY	9990366	.	A	C	140.14	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-8.390e-
10410	chrY	9990373	.	C	T	93.71	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=-2.900e-
10411	chrY	9990383	.	A	C	178.65	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=0.869;C
10412	chrY	9990432	.	T	A	201.30	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=0.150;C

10413	chrY	9990444	.	A	T	63.58	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
10414	chrY	9990447	.	A	G	242.17	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=-1.975e+
10415	chrY	9990454	.	T	A	39.31	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
10416	chrY	9990458	.	T	C	67.54	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
10417	chrY	9990475	.	C	G	38.75	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
10418	chrY	9990509	.	C	A	284.01	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=2.18;Cli
10419	chrY	9990518	.	C	G	294.81	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.290;Cl
10420	chrY	9990561	.	T	C	276.32	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.747;Cl
10421	chrY	9990579	.	A	T	295.99	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=0.423;Cl
10422	chrY	9990582	.	T	G	292.57	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=-2.166e+
10423	chrY	9990589	.	T	A	193.27	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=0.00;Cli
10424	chrY	9990593	.	T	A	190.74	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=-7.360e-
10425	chrY	9990595	.	G	A	161.49	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-3.820e-
10426	chrY	9990597	.	C	T	161.49	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=-1.107e+
10427	chrY	9991313	.	C	T	86.34	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQRankSum=
10428	chrY	9991361	.	A	G	766.03	my_snp_filter	AC=7;AF=0.117;AN=60;BaseQRankSum=
10429	chrY	9991369	.	T	C	891.34	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
10430	chrY	9991373	.	T	G	935.02	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10431	chrY	9991375	.	G	T	930.04	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10432	chrY	9991378	.	C	G	972.20	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10433	chrY	9991385	.	C	T	941.25	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
10434	chrY	9991444	.	G	T	995.68	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum=
10435	chrY	9991482	.	A	C,T	3967.14	my_snp_filter	AC=8,14;AF=0.114,0.200;AN=70;Base
10436	chrY	9991490	.	C	A	4717.19	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
10437	chrY	9991499	.	T	C	5116.61	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
10438	chrY	9991511	.	G	A	5618.71	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=0.320;C
10439	chrY	9991545	.	T	G	10045.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
10440	chrY	9991555	.	C	T	10594.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
10441	chrY	9991598	.	T	C	9988.26	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=-1.884e
10442	chrY	9991623	.	C	A	9198.53	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=-5.730e
10443	chrY	9991636	.	C	T	2939.50	my_snp_filter	AC=18;AF=0.346;AN=52;BaseQRankSum=
10444	chrY	9991637	.	C	A	4759.05	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=0.00;Cl
10445	chrY	9991638	.	T	A	2764.28	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=0.537;C
10446	chrY	9991643	.	T	C	4224.58	PASS	AC=18;AF=0.391;AN=46;BaseQRankSum=-7.270e
10447	chrY	9991644	.	T	C	1681.78	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=0.358;C
10448	chrY	9991654	.	T	C	3392.02	PASS	AC=22;AF=0.500;AN=44;BaseQRankSum=-5.720e
10449	chrY	9991655	.	T	C	280.77	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=-7.360e-
10450	chrY	9991686	.	C	G	693.21	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=1.59;Cli
10451	chrY	9991700	.	A	C	588.33	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=-1.202e+
10452	chrY	9991717	.	A	G	609.07	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=0.311;Cl
10453	chrY	9991722	.	T	C	640.49	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=0.930;Cl
10454	chrY	9991726	.	A	G	722.85	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=-1.416e+
10455	chrY	9991742	.	T	C	976.60	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=-2.890e-
10456	chrY	9991743	.	G	A	973.19	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=-3.960e-
10457	chrY	9991749	.	T	C	1051.39	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=-2.530e-
10458	chrY	9991759	.	C	T	55.83	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQRankSum=
10459	chrY	9991768	.	T	C	1049.69	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=-5.370e-
10460	chrY	9991774	.	G	A	133.79	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQRankSum=
10461	chrY	9991780	.	C	T	1327.12	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=1.86;Cli
10462	chrY	9991785	.	A	G	3453.70	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=0.849;Cl
10463	chrY	9991786	.	C	G,T	581.19	PASS	AC=4,1;AF=0.087,0.022;AN=46;BaseQRankSum=
10464	chrY	9991796	.	A	T	5978.50	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=1.11;Cli
10465	chrY	9991808	.	T	A	1968.26	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
10466	chrY	9991810	.	T	A	168.92	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
10467	chrY	9991828	.	T	C	2967.07	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
10468	chrY	9991838	.	C	T	2872.09	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.415;Cl
10469	chrY	9991839	.	C	T	4804.60	PASS	AC=41;AF=0.661;AN=62;BaseQRankSum=1.16;Cl
10470	chrY	9991845	.	G	T	43.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
10471	chrY	9991855	.	G	C	609.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-6.380e-
10472	chrY	9991870	.	G	T	1282.94	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
10473	chrY	9991871	.	C	T	411.42	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.297;Cl
10474	chrY	9991882	.	C	G,A	3560.55	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQRankSum=
10475	chrY	9991883	.	T	C	1193	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
10476	chrY	9991889	.	C	T	2414.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.040e+
10477	chrY	9991890	.	T	C	2413.65	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=1.02;Cli
10478	chrY	9991895	.	A	C	5211.61	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.90;Cl
10479	chrY	9991909	.	G	A	998.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-1.348e+
10480	chrY	9991927	.	G	A	2153.13	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=3.04;Cli
10481	chrY	9991931	.	C	A	371.96	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.71;Cli
10482	chrY	9991932	.	G	A	1470.32	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=3.44;Cli
10483	chrY	9991935	.	T	C	2005.21	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=1.36;Cli
10484	chrY	9991951	.	C	T	1763.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.36;Cli
10485	chrY	9991952	.	G	T	1807.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=2.57;Cli
10486	chrY	9991956	.	T	C	1134.87	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.781;Cl
10487	chrY	9991959	.	T	C	1958.89	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.498;Cl
10488	chrY	9991965	.	A	G	659.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-6.370e-

10489	chrY	9991990	.	A	C,T	5166.40	PASS	AC=16,2;AF=0.229,0.029;AN=70;BaseQRankSum
10490	chrY	9991995	.	C	A	9040.28	my_snp_filter	AC=25;AF=0.368;AN=68;BaseQRankSum
10491	chrY	9991996	.	G	T	440.06	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum
10492	chrY	9992002	.	C	A	2470.59	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=-4.860e
10493	chrY	9992004	.	C	T	515.76	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum
10494	chrY	9992005	.	T	G	515.54	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum
10495	chrY	9992007	.	T	C	1155.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.600e-
10496	chrY	9992019	.	G	C	528.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.890e-
10497	chrY	9992037	.	T	C	195.99	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
10498	chrY	9992038	.	G	A	8598.91	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.428;
10499	chrY	9992040	.	G	A	1707.44	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-1.480e
10500	chrY	9992042	.	T	A	1324.57	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-9.400e
10501	chrY	9992063	.	C	A	994.38	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum
10502	chrY	9992065	.	C	G	2099.46	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-5.200e
10503	chrY	9992071	.	A	C	34803.11	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
10504	chrY	9992075	.	G	A	657.97	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
10505	chrY	9992081	.	A	G	4855.48	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=-1.678e
10506	chrY	9992082	.	T	C	2531.42	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.083e
10507	chrY	9992106	.	C	T	3203.90	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=1.57;Cl
10508	chrY	9992107	.	A	G	3163.27	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.373;C
10509	chrY	9992114	.	C	A	2977.60	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-9.500e
10510	chrY	9992127	.	T	A	2833.53	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-3.910e
10511	chrY	9992130	.	T	C	3159.57	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-7.420e
10512	chrY	9992131	.	T	G	3133.58	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-3.230e
10513	chrY	9992138	.	C	G	57.22	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
10514	chrY	9992141	.	T	C	119.23	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
10515	chrY	9992153	.	T	C	193.18	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
10516	chrY	9992167	.	C	A,*	7264.91	PASS	AC=16,18;AF=0.229,0.257;AN=70;BaseQRankSu
10517	chrY	9992188	.	C	T	6730.87	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=1.65;Cl
10518	chrY	9992193	.	A	G	61.02	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
10519	chrY	9992196	.	A	C	14350.60	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
10520	chrY	9992208	.	G	T	6439.05	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.778;C
10521	chrY	9992213	.	G	A	6311.90	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=0.066;C
10522	chrY	9992214	.	T	C	6270.95	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-8.360e
10523	chrY	9992232	.	T	A	209.98	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
10524	chrY	9992233	.	A	C	43115.82	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum
10525	chrY	9992235	.	A	G	26363.74	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
10526	chrY	9992247	.	A	T	4651.48	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=0.357;C
10527	chrY	9992257	.	T	C	2573.23	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-4.702e+
10528	chrY	9992268	.	C	T	30565.38	PASS	AC=14;AF=0.368;AN=38;BaseQRankSum
10529	chrY	9992283	.	C	A	244.03	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum
10530	chrY	9992288	.	A	T	27825.02	PASS	AC=13;AF=0.295;AN=44;BaseQRankSum
10531	chrY	9992301	.	T	C	7820.86	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.00;Cl
10532	chrY	9992309	.	T	C	2113.49	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-4.670e-
10533	chrY	9992313	.	G	A	7245.05	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=1.39;Cl
10534	chrY	9992316	.	C	T	16679.91	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum
10535	chrY	9992317	.	A	C	1831.45	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=0.755;Cl
10536	chrY	9992333	.	T	C	573.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.809;Cl
10537	chrY	9992336	.	A	T	380.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.494;Cl
10538	chrY	9992337	.	C	T	10059.81	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
10539	chrY	9992338	.	A	G	9813.15	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.068e+
10540	chrY	9992369	.	T	G	3355.28	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-3.610e-
10541	chrY	9992392	.	C	A	3157.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=0.117;Cl
10542	chrY	9992399	.	G	A	1368.56	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.48;Cli
10543	chrY	9992401	.	A	C	3817.59	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=1.11;Cli
10544	chrY	9992413	.	C	T	5620.03	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-3.800e-
10545	chrY	9992428	.	C	G	8938.71	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=-9.000e-
10546	chrY	9992432	.	A	C	9235.29	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=3.10;Cl
10547	chrY	9992434	.	C	G	1223.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-3.421e+
10548	chrY	9992442	.	T	A	1063.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.479e+
10549	chrY	9992446	.	C	G	1548.11	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.00;Cli
10550	chrY	9992456	.	G	A	1114.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.19;Cli
10551	chrY	9992466	.	C	T	1867.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.900;Cl
10552	chrY	9992473	.	T	A	7529.47	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-4.000e
10553	chrY	9992475	.	T	C	7544.39	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-5.480e
10554	chrY	9992484	.	C	T	15842.75	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
10555	chrY	9992485	.	A	G	16055.75	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
10556	chrY	9992499	.	C	T	3589.88	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-9.400e
10557	chrY	9992508	.	T	G	3832.90	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.417e
10558	chrY	9992511	.	C	T	3985.21	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.028;C
10559	chrY	9992513	.	A	G	514.46	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10560	chrY	9992534	.	G	A	3497.53	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=1.35;Cl
10561	chrY	9992543	.	T	C	10954.17	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
10562	chrY	9992548	.	A	T	3695.59	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.853;C
10563	chrY	9992553	.	G	A	3471.44	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.092;C
10564	chrY	9992560	.	C	T	11950.37	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum

10565	chrY	9992565	.	T	C	3156.99	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=-7.790e
10566	chrY	9992567	.	C	T	2999.78	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.10;Cl
10567	chrY	9992572	.	C	T	9217.60	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=0.585;C
10568	chrY	9992576	.	C	T,A	19780.50	PASS	AC=29,8;AF=0.414,0.114;AN=70;Base
10569	chrY	9992592	.	C	T	11226.32	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
10570	chrY	9992593	.	A	G	17167.15	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
10571	chrY	9992594	.	G	A	2957.49	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=0.526;C
10572	chrY	9992601	.	G	T	171.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.597;Cl
10573	chrY	9992606	.	C	A,T	1598.13	PASS	AC=10,2;AF=0.143,0.029;AN=70;BaseQRankSum
10574	chrY	9992607	.	A	G	4241.17	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-1.746e
10575	chrY	9992626	.	G	A	292.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10576	chrY	9992627	.	T	C	2566.47	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.20;Cl
10577	chrY	9992628	.	G	A	2545	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=1.63;Cl
10578	chrY	9992638	.	G	T	1241.05	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=1.77;Cli
10579	chrY	9992647	.	C	T	565.58	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.666;C
10580	chrY	9992649	.	A	G	733.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-1.064e+
10581	chrY	9992655	.	A	G	690.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-2.980e-
10582	chrY	9992661	.	G	T	13224.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
10583	chrY	9992667	.	T	C	12830.10	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
10584	chrY	9992674	.	A	G	4419.59	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=1.28;Cl
10585	chrY	9992679	.	C	T	639.83	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
10586	chrY	9992694	.	G	A	844.02	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10587	chrY	9992700	.	T	C	173.71	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
10588	chrY	9992712	.	G	C	916.79	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10589	chrY	9992714	.	G	T	5991.13	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=-1.370e
10590	chrY	9992719	.	T	A	392.49	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
10591	chrY	9992725	.	G	A	423.61	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
10592	chrY	9992756	.	C	T	32.19	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
10593	chrY	9992757	.	G	A	4597.36	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-1.217e
10594	chrY	9992791	.	T	C	3327.14	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.590e
10595	chrY	9992793	.	C	A	11291.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
10596	chrY	9992812	.	C	A	2505.12	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=-4.210e
10597	chrY	9992814	.	A	G	573.23	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
10598	chrY	9992820	.	T	C	3014.06	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=-8.490e
10599	chrY	9992821	.	G	C,A	3721.06	PASS	AC=19,1;AF=0.271,0.014;AN=70;BaseQRankSum
10600	chrY	9992833	.	G	A	7308.31	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=1.18;Cl
10601	chrY	9992845	.	A	T	5363.07	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-4.260e-
10602	chrY	9992853	.	C	G	4666.84	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=2.75;Cli
10603	chrY	9992860	.	C	A	4141.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.094;Cl
10604	chrY	9992914	.	A	C	1277.85	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-5.890e-
10605	chrY	9992923	.	C	T	1393.39	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-9.900e-
10606	chrY	9992944	.	T	A	1718.66	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=-1.007e+
10607	chrY	9992953	.	T	C	1982.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-3.450e-
10608	chrY	9992961	.	A	G	2376.91	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=1.55;Cl
10609	chrY	9992989	.	G	C	2659.63	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=0.184;C
10610	chrY	9993003	.	A	T	318.58	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
10611	chrY	9993019	.	G	T	357.20	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
10612	chrY	9993023	.	T	G	333.61	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
10613	chrY	9993024	.	G	A	72.70	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10614	chrY	9993048	.	T	C	179.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10615	chrY	9993061	.	A	G	141.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10616	chrY	9993080	.	C	T	181.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.31;Cli
10617	chrY	9993088	.	C	G	12746.45	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum
10618	chrY	9993094	.	T	C	15725.46	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum
10619	chrY	9993099	.	G	A	106.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10620	chrY	9993104	.	T	A	109.97	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10621	chrY	9993107	.	C	A	177.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=2.65;Cli
10622	chrY	9993111	.	G	A	180.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.50;Cli
10623	chrY	9993117	.	T	C	813.40	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.817;C
10624	chrY	9993118	.	C	T	16135.37	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
10625	chrY	9993125	.	G	C	892.03	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.740;C
10626	chrY	9993126	.	G	T	19042.10	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum
10627	chrY	9993159	.	A	C	16499.77	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum
10628	chrY	9993172	.	G	A	3991.94	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=-3.900e
10629	chrY	9993176	.	C	G	47.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10630	chrY	9993202	.	C	T	4708.27	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=-1.649e
10631	chrY	9993227	.	C	T	5210.47	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=0.781;C
10632	chrY	9993273	.	T	G	5806.73	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQRankSum
10633	chrY	9993274	.	T	C	5799.80	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQRankSum
10634	chrY	9993280	.	C	G	89.40	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10635	chrY	9993285	.	T	C	196.98	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=1.66;Cli
10636	chrY	9993288	.	C	A	32.65	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
10637	chrY	9993302	.	C	T	1748.53	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
10638	chrY	9993313	.	T	C	2944.61	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
10639	chrY	9993318	.	C	A	2973.56	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum
10640	chrY	9993354	.	G	C	1513.06	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum

10641	chrY	9993355	.	A	G	1509.49	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
10642	chrY	9993389	.	A	C	1402.82	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
10643	chrY	9993397	.	G	C	1184.37	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum
10644	chrY	9993419	.	T	G	394.91	PASS	AC=4;AF=0.057;AN=70;DP=454;FS=0.000;Inbre
10645	chrY	9993431	.	A	G	238.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-9.270e-
10646	chrY	9993472	.	A	G	30.16	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
10647	chrY	9993477	.	G	A	33.09	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
10648	chrY	9993501	.	T	G	203.27	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=1.21;Cli
10649	chrY	9993505	.	G	A	229.98	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.731;Cl
10650	chrY	9993506	.	C	G	232.71	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=0.514;Cl
10651	chrY	9993533	.	A	C	65.12	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
10652	chrY	9993545	.	C	T	60.06	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
10653	chrY	9993668	.	C	T	8827.30	PASS	AC=42;AF=0.636;AN=66;DP=479;FS=0.000;Inbr
10654	chrY	9993828	.	A	G	63.69	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10655	chrY	9993850	.	G	C	44.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10656	chrY	9993880	.	C	A	116.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.10;Cli
10657	chrY	9994457	.	T	C	53.72	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
10658	chrY	9994480	.	C	A	137.69	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-1.495e+
10659	chrY	9994486	.	C	T	135.12	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=-9.220e-
10660	chrY	9994581	.	T	C	92.27	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=-2.462e+
10661	chrY	9994582	.	G	C	145.01	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=0.634;Cl
10662	chrY	9994585	.	A	C	155.79	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=-2.357e+
10663	chrY	9994587	.	C	G	41.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.026e+
10664	chrY	9994617	.	G	T	509.12	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=0.609;C
10665	chrY	9994631	.	G	T	2315.66	my_snp_filter	AC=17;AF=0.258;AN=66;BaseQRankSum
10666	chrY	9994633	.	T	A	3512.35	my_snp_filter	AC=18;AF=0.273;AN=66;BaseQRankSum
10667	chrY	9994638	.	T	C	544.30	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-1.975e+
10668	chrY	9994643	.	A	T	88.83	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
10669	chrY	9994645	.	C	T,A	4808.11	PASS	AC=21,3;AF=0.318,0.045;AN=66;BaseQRankSum
10670	chrY	9994650	.	C	A	10260.34	my_snp_filter	AC=29;AF=0.426;AN=68;Base
10671	chrY	9994651	.	A	T	4574.19	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=0.065;C
10672	chrY	9994688	.	A	T	3756.59	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=-4.570e
10673	chrY	9994703	.	T	C	518.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-2.240e-
10674	chrY	9994709	.	G	C	149.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=0.487;Cl
10675	chrY	9994716	.	T	A	777.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.00;Cli
10676	chrY	9994717	.	C	G	22576.91	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum
10677	chrY	9994738	.	C	T	326.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10678	chrY	9994739	.	C	G	1150.42	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-7.180e
10679	chrY	9994745	.	T	C	1119.85	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-1.368e
10680	chrY	9994748	.	T	G	97.40	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
10681	chrY	9994755	.	T	C	285.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10682	chrY	9994759	.	T	C	24692.30	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum
10683	chrY	9994774	.	A	G	390.78	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
10684	chrY	9994781	.	T	G	113.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
10685	chrY	9994788	.	G	A,C	6593	PASS	AC=20,13;AF=0.294,0.191;AN=68;BaseQRankSu
10686	chrY	9994794	.	C	A	1483.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-7.510e-
10687	chrY	9994828	.	G	A	6360.38	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=0.742;C
10688	chrY	9994837	.	G	C,*	4117.86	PASS	AC=17,3;AF=0.274,0.048;AN=62;BaseQRankSum
10689	chrY	9994839	.	A	G	2250.44	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=-1.026e
10690	chrY	9994843	.	G	A	136.63	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
10691	chrY	9994856	.	A	G,*	2908.11	PASS	AC=6,3;AF=0.111,0.056;AN=54;BaseQRankSum=
10692	chrY	9994862	.	T	C	45.02	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=-1.026e+
10693	chrY	9994869	.	A	G	3962.92	my_snp_filter	AC=14;AF=0.269;AN=52;BaseQRankSum
10694	chrY	9994873	.	G	A	3324.31	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=2.18;Cli
10695	chrY	9994875	.	G	A	379.14	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQRankSum=
10696	chrY	9994879	.	T	C	3337.28	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=-2.825e+
10697	chrY	9994884	.	T	G	3475.62	PASS	AC=10;AF=0.250;AN=40;BaseQRankSum=-1.957e
10698	chrY	9994885	.	C	T	3417.30	PASS	AC=10;AF=0.250;AN=40;BaseQRankSum=-8.610e
10699	chrY	9994902	.	G	A	4040.46	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=2.12;Cli
10700	chrY	9994904	.	G	A	12282.65	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum
10701	chrY	9994905	.	T	A	4164.61	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=0.582;Cl
10702	chrY	9994906	.	T	C	1676.28	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=0.457;Cl
10703	chrY	9994912	.	C	T	4037.63	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=0.671;Cl
10704	chrY	9994920	.	G	T	2732.12	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=0.952;Cl
10705	chrY	9994930	.	G	A	3310.32	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=1.30;Cli
10706	chrY	9994934	.	T	C	101.54	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=1.78;Cli
10707	chrY	9994935	.	G	A	12304.82	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
10708	chrY	9994937	.	A	T	2767.04	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=-5.780e-
10709	chrY	9994958	.	A	G	81.26	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
10710	chrY	9994966	.	T	C	4437.72	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=-3.074e+
10711	chrY	9994967	.	A	G	4539.95	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=-3.723e+
10712	chrY	9994975	.	C	T	18917.62	PASS	AC=14;AF=0.438;AN=32;BaseQRankSum
10713	chrY	9994978	.	T	C	4985.22	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=-1.182e+
10714	chrY	9994992	.	A	T	21552.14	PASS	AC=13;AF=0.433;AN=30;BaseQRankSum
10715	chrY	9994998	.	A	G	5955.15	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=0.174;Cl
10716	chrY	9995000	.	A	C	10303.64	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum

10717	chrY	9995002	.	A	G	10114.58	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum
10718	chrY	9995005	.	G	A	6049.02	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-2.217e+
10719	chrY	9995007	.	G	T	6072.88	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-2.227e+
10720	chrY	9995030	.	G	A	6149.77	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-2.182e+
10721	chrY	9995036	.	G	A	13587.24	PASS	AC=21;AF=0.362;AN=58;BaseQRankSum
10722	chrY	9995038	.	T	C	6107.01	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=-2.823e+
10723	chrY	9995047	.	G	A	5439.74	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=3.78;Cli
10724	chrY	9995052	.	C	T	23345.76	PASS	AC=30;AF=0.536;AN=56;BaseQRankSum
10725	chrY	9995053	.	G	C	5257.54	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=-3.470e-
10726	chrY	9995079	.	T	C	37.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-3.580e-
10727	chrY	9995082	.	A	T	2107.67	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.197;Cl
10728	chrY	9995103	.	A	C,G	16904.92	PASS	AC=5,16;AF=0.086,0.276;AN=58;Base
10729	chrY	9995106	.	T	A,C	16075.49	PASS	AC=20,6;AF=0.313,0.094;AN=64;Base
10730	chrY	9995116	.	C	T	18043.08	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
10731	chrY	9995127	.	C	T	912.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.667;Cl
10732	chrY	9995134	.	G	A	914.30	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.663;Cl
10733	chrY	9995137	.	G	A	14702.65	my_snp_filter	AC=24;AF=0.364;AN=66;Base
10734	chrY	9995149	.	T	G	1153.38	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=-1.495e+
10735	chrY	9995153	.	A	T	841.34	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=0.674;Cl
10736	chrY	9995156	.	C	G	40.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10737	chrY	9995169	.	C	A	837.61	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.069;Cl
10738	chrY	9995170	.	T	C	406.67	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
10739	chrY	9995174	.	C	T	50.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-1.106e+
10740	chrY	9995180	.	G	T	409.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.877;Cl
10741	chrY	9995229	.	A	C	2914.69	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum
10742	chrY	9995230	.	C	T	7945.78	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum
10743	chrY	9995231	.	A	G	312.92	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
10744	chrY	9995240	.	G	A	7154.17	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
10745	chrY	9995241	.	T	C	382.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.084e+
10746	chrY	9995242	.	G	T	423.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=1.32;Cli
10747	chrY	9995256	.	T	A	6136.16	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10748	chrY	9995266	.	G	A	1839.94	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
10749	chrY	9995267	.	G	A	370.15	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.63;Cli
10750	chrY	9995282	.	G	T	3131.52	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10751	chrY	9995294	.	G	T,A	233.01	my_snp_filter	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
10752	chrY	9995300	.	C	T	1900.90	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum
10753	chrY	9995302	.	C	A	63.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=1.16;Cli
10754	chrY	9995308	.	C	G	277.72	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.33;Cli
10755	chrY	9995312	.	A	C	287.82	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=1.70;Cli
10756	chrY	9995324	.	T	G	1458.93	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum
10757	chrY	9995353	.	A	G	1485.08	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=-4.010e-
10758	chrY	9995357	.	T	G,*	1187.82	PASS	AC=11,2;AF=0.157,0.029;AN=70;BaseQRankSum
10759	chrY	9995365	.	A	C	2094.05	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=-3.320e-
10760	chrY	9995373	.	C	T	1603.44	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=-6.680e-
10761	chrY	9995378	.	T	C	172.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=-7.610e-
10762	chrY	9995409	.	G	A	826.44	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.293;C
10763	chrY	9995423	.	C	G	780.61	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-1.338e+
10764	chrY	9995442	.	C	T	474.55	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.255;Cl
10765	chrY	9995456	.	G	T	388.64	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=-1.518e+
10766	chrY	9995470	.	C	G	381.20	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=0.891;Cl
10767	chrY	9995501	.	A	G	184.27	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=-7.360e-
10768	chrY	9995503	.	T	C	180.65	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=0.193;Cl
10769	chrY	9995508	.	G	A	74.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-4.960e-
10770	chrY	9995652	.	A	G	926.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-1.085e+
10771	chrY	9995751	.	G	T	62.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.358;Cl
10772	chrY	9995757	.	C	A	56.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.358;Cl
10773	chrY	9995862	.	G	A	1942.29	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=0.023;C
10774	chrY	9995876	.	G	A	4448.98	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=0.107;C
10775	chrY	9995878	.	C	A	140.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=0.667;Cl
10776	chrY	9995880	.	C	A,G	5769.37	PASS	AC=9,15;AF=0.150,0.250;AN=60;BaseQRankSum
10777	chrY	9995885	.	C	A	329.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.457;Cl
10778	chrY	9995902	.	C	T	9402.64	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=-1.170e-
10779	chrY	9995909	.	T	A	341.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-4.800e-
10780	chrY	9995910	.	G	T	9028.96	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=-1.316e-
10781	chrY	9995929	.	C	T	13708.35	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
10782	chrY	9995930	.	T	G	229.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-1.735e+
10783	chrY	9995939	.	A	C	3837.60	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=-4.950e-
10784	chrY	9995947	.	T	C	3099.19	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-1.860e-
10785	chrY	9995951	.	A	T	3276.59	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=-8.640e-
10786	chrY	9995959	.	G	A	398.99	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum
10787	chrY	9995964	.	C	A	7562.96	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=0.060;C
10788	chrY	9995967	.	G	C	20085.98	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
10789	chrY	9995971	.	T	C	47078.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
10790	chrY	9995972	.	G	C,A	10471.84	PASS	AC=13,21;AF=0.186,0.300;AN=70;Bas
10791	chrY	9995978	.	A	G	4299.84	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-2.240e-
10792	chrY	9995980	.	A	G	7613.41	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=-4.130e-

10793	chrY	9996011	.	T	G	15009.13	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
10794	chrY	9996014	.	T	G	6303.81	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=-1.890e
10795	chrY	9996021	.	T	C	12990.12	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
10796	chrY	9996031	.	C	T	1351.96	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=-4.400e
10797	chrY	9996036	.	G	T	1289.71	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=0.00;Cl
10798	chrY	9996046	.	A	G	680.81	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=0.934;Cl
10799	chrY	9996057	.	T	C	600.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.68;Cli
10800	chrY	9996058	.	G	C	5091.35	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=-4.890e
10801	chrY	9996074	.	A	G	924.01	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=-1.713e+
10802	chrY	9996075	.	C	A	152.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.551;C
10803	chrY	9996083	.	G	T	64.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10804	chrY	9996092	.	G	A	3177.43	PASS	AC=27;AF=0.450;AN=60;BaseQRankSum=0.720;C
10805	chrY	9996093	.	A	G	3408.43	PASS	AC=27;AF=0.450;AN=60;BaseQRankSum=0.00;Cl
10806	chrY	9996117	.	A	C	1304.16	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=0.804;C
10807	chrY	9996144	.	G	A	262.57	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=-1.126e+
10808	chrY	9996148	.	A	G	220.74	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=-8.910e-
10809	chrY	9996490	.	A	G	34.29	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=-1.495e+
10810	chrY	9996496	.	T	C	34.18	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
10811	chrY	9996635	.	C	G	82.64	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-2.240e-
10812	chrY	9996637	.	T	A	82.30	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=-1.937e+
10813	chrY	9996806	.	G	T	3471.02	my_snp_filter	AC=11;AF=0.262;AN=42;BaseQRankSum=
10814	chrY	9996807	.	A	C	366.42	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=0.465;Cl
10815	chrY	9996818	.	T	C	418.41	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=-1.684e+
10816	chrY	9996826	.	C	T	249.31	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQRankSum=
10817	chrY	9996832	.	G	A	7266.53	my_snp_filter	AC=22;AF=0.458;AN=48;BaseQRankSum=
10818	chrY	9996846	.	T	G	373.11	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=-1.373e+
10819	chrY	9996848	.	T	C	444.05	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=-2.321e+
10820	chrY	9996872	.	A	C	823.84	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=-2.928e+
10821	chrY	9996875	.	C	T	567.34	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=1.03;Cl
10822	chrY	9996876	.	A	T	128.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
10823	chrY	9996901	.	T	C	230.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-5.050e-
10824	chrY	9996902	.	T	C	230.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=-1.227e+
10825	chrY	9996908	.	T	A	73.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=-6.840e-
10826	chrY	9996920	.	T	G	1089.78	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=0.742;C
10827	chrY	9996922	.	T	C	479.68	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
10828	chrY	9996939	.	C	T	540.52	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
10829	chrY	9996952	.	T	G	326.74	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
10830	chrY	9996962	.	T	C	10010.29	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
10831	chrY	9996963	.	G	A	10019.76	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
10832	chrY	9996986	.	T	C	10145.54	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
10833	chrY	9996987	.	T	C	10067.14	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
10834	chrY	9997003	.	A	G	43.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.751;Cl
10835	chrY	9997017	.	G	A	1463.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.483;Cl
10836	chrY	9997020	.	A	G	334.63	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=0.720;Cl
10837	chrY	9997022	.	G	A	1484.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=0.715;Cl
10838	chrY	9997027	.	G	T	17211.53	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
10839	chrY	9997051	.	G	T	52.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
10840	chrY	9997052	.	C	T	629.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
10841	chrY	9997057	.	G	C	567.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=-1.231e+
10842	chrY	9997059	.	A	T	105.99	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=0.503;Cl
10843	chrY	9997063	.	A	C	1858.22	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=0.091;C
10844	chrY	9997067	.	G	A	62.55	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
10845	chrY	9997077	.	G	A	24105.01	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
10846	chrY	9997082	.	C	A	386.80	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=-1.009e+
10847	chrY	9997096	.	C	T	593.40	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=3.21;Cli
10848	chrY	9997100	.	A	G	3072.53	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=-1.179e+
10849	chrY	9997111	.	C	T	561.03	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=3.12;Cli
10850	chrY	9997113	.	A	G	31918.45	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
10851	chrY	9997145	.	A	G	35711.69	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
10852	chrY	9997147	.	A	T	1938.78	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=-6.350e-
10853	chrY	9997152	.	T	C	1978.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.696;Cl
10854	chrY	9997157	.	G	A,*	3103.40	PASS	AC=24,1;AF=0.343,0.014;AN=70;BaseQRankSum
10855	chrY	9997162	.	C	A	2386.35	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=0.139;C
10856	chrY	9997194	.	C	T	577.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=-3.740e-
10857	chrY	9997203	.	A	C	156.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=-3.550e-
10858	chrY	9997218	.	G	A	23588.03	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
10859	chrY	9997249	.	C	T	11431.85	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
10860	chrY	9997261	.	A	T	14905.30	PASS	AC=28;AF=0.438;AN=64;BaseQRankSum=
10861	chrY	9997279	.	G	C	24212.81	PASS	AC=28;AF=0.467;AN=60;BaseQRankSum=
10862	chrY	9997286	.	A	C	24903.65	PASS	AC=28;AF=0.483;AN=58;BaseQRankSum=
10863	chrY	9997296	.	T	G	1532.20	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=-8.980e
10864	chrY	9997302	.	C	G	24214.74	PASS	AC=28;AF=0.452;AN=62;BaseQRankSum=
10865	chrY	9997318	.	T	A	23264.76	PASS	AC=27;AF=0.450;AN=60;BaseQRankSum=
10866	chrY	9997342	.	T	C	24751.66	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=
10867	chrY	9997343	.	A	C	24961.28	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=
10868	chrY	9997359	.	T	C	25484.29	PASS	AC=18;AF=0.321;AN=56;BaseQRankSum=

10869	chrY	9997360	.	G	T	25392.88	PASS	AC=18;AF=0.321;AN=56;BaseQRankSum=	
10870	chrY	9997376	.	A	C	483.22	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQRankSum=	
10871	chrY	9997387	.	T	C	215.24	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=	
10872	chrY	9997393	.	C	T	612.99	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQRankSum=	
10873	chrY	9997426	.	A	T	182.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=	
10874	chrY	9997431	.	T	C	188.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=	
10875	chrY	9997442	.	G	A	1120.86	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=0.462;Cl	
10876	chrY	9997451	.	G	A	17898.36	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=	
10877	chrY	9997453	.	G	T	1316.91	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=2.30;Cli	
10878	chrY	9997472	.	C	A	17077.38	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=	
10879	chrY	9997476	.	G	A	15611.54	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=	
10880	chrY	9997490	.	C	G	13384.60	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=	
10881	chrY	9997491	.	C	G	13100.76	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=	
10882	chrY	9997494	.	A	G	68.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=	
10883	chrY	9997497	.	C	T	11745.80	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=	
10884	chrY	9997501	.	G	C	1180.43	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=-2.450e-	
10885	chrY	9997502	.	A	T	11066.36	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=	
10886	chrY	9997510	.	T	C	5930.88	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=0.469;C	
10887	chrY	9997517	.	C	G	7684.31	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=-7.910e-	
10888	chrY	9997524	.	G	A	1231.92	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=0.959;Cl	
10889	chrY	9997555	.	G	A	107.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=0.324;Cl	
10890	chrY	9997559	.	A	T	71.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=1.00;Cli	
10891	chrY	9997562	.	C	T	551.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=0.839;Cl	
10892	chrY	9997564	.	C	T	381.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=1.83;Cli	
10893	chrY	9997619	.	A	C	1509.02	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=-1.570e-	
10894	chrY	9997664	.	G	A	7417.59	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=2.42;Cl	
10895	chrY	9997665	.	T	C	698.58	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=0.336;Cl	
10896	chrY	9997667	.	G	A	6039.30	my_snp_filter	AC=10;AF=0.192;AN=52;BaseQRankSum=	
10897	chrY	9997686	.	C	T	6348.70	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=-2.890e	
10898	chrY	9997730	.	G	A	196.44	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=2.47;Cli	
10899	chrY	9997739	.	T	A	160.43	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=-1.644e+	
10900	chrY	9997740	.	C	G	2490.74	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQRankSum=	
10901	chrY	9997768	.	G	C	1579.96	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQRankSum=	
10902	chrY	9997788	.	C	T	1242.69	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=1.36;Cli	
10903	chrY	9997798	.	C	T	876.64	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=-1.164e+	
10904	chrY	9997807	.	T	C	887.74	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=0.482;Cl	
10905	chrY	9997813	.	T	C	1719.21	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=-8.250e-	
10906	chrY	9997818	.	G	A	817.78	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=0.690;Cl	
10907	chrY	9997819	.	C	T	817.69	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=0.789;Cl	
10908	chrY	9997825	.	T	C	396.13	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=-1.931e+	
10909	chrY	9997844	.	A	G	719.93	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=-9.350e-	
10910	chrY	9997853	.	A	C	777.21	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=1.13;Cli	
10911	chrY	9997861	.	G	C	55.79	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=1.03;Cli	
10912	chrY	9997872	.	T	C	45.03	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=1.03;Cli	
10913	chrY	9997879	.	C	T	454.53	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=1.73;Cli	
10914	chrY	9997882	.	C	T	45.22	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=0.00;Cli	
10915	chrY	9997905	.	T	C	162.42	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=1.09;Cli	
10916	chrY	9997912	.	G	A	134.01	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=1.37;Cli	
10917	chrY	9997920	.	G	A	46.78	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=-1.957e+	
10918	chrY	9997933	.	T	C	42.40	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=-8.630e-	
10919	chrY	9999370	.	G	A	1287.15	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=	
10920	chrY	9999373	.	G	T	1282.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=	
10921	chrY	9999388	.	G	T	1463.65	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=	
10922	chrY	9999399	.	C	G	1467.15	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=	
10923	chrY	9999421	.	G	A	1458.68	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQRankSum=	
10924	chrY	9999457	.	C	T	419.24	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=	
10925	chrY	9999563	.	G	A	265.75	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQRankSum=	
10926	chrY	9999583	.	C	G	628.68	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=0.313;Cl	
10927	chrY	9999613	.	T	A	796.60	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=1.67;Cli	
10928	chrY	9999653	.	C	T	1314.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=0.994;Cl	
10929	chrY	9999687	.	C	G	2495.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=-8.980e-	
10930	chrY	9999690	.	T	A	2490.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=-1.366e+	
10931	chrY	9999718	.	T	C	1356.76	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=-7.930e-	
10932	chrY	9999739	.	A	C	1661.39	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=-3.277e+	
10933	chrY	9999747	.	C	A	1561.35	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=-2.450e-	
10934	chrY	9999793	.	C	T	459.44	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=1.25;Cli	
10935	chrY	9999808	.	G	T	395.99	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=0.312;Cl	
10936	chrY	9999818	.	T	A	332.76	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=-5.800e-	
10937	chrY	9999836	.	G	T	100.76	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=1.16;Cli	
10938	chrY	9999869	.	G	A	551.78	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=-1.733e+	
10939	chrY	9999975	.	C	T	475.17	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=0.651;Cl	
10940	chrY	9999976	.	T	A,G	5382.82	PASS	AC=14,4;AF=0.778,0.222;AN=18;DP=198;FS=0.	
10941	chrY	9999983	.	A	G	753.20	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=-2.410e-	
10942	chrY	9999989	.	T	C	693.36	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=-7.950e-	
10943	chrY	10000028	.	.	C	T	305.82	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
10944	chrY	10000029	.	.	T	A	389.97	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=

10945	chrY	10000049	.	C	T	865.29	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=
10946	chrY	10000070	.	T	G	362.94	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
10947	chrY	10000072	.	A	G	77.25	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
10948	chrY	10000088	.	A	G	293.59	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
10949	chrY	10000107	.	C	A	3417.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10950	chrY	10000118	.	G	C	1702.65	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10951	chrY	10000150	.	T	C	1466.15	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10952	chrY	10000182	.	C	G	1335.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10953	chrY	10000186	.	C	T	1309.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10954	chrY	10000187	.	C	T	171.25	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10955	chrY	10000189	.	T	C	1736.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10956	chrY	10000203	.	G	A	106.57	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
10957	chrY	10000212	.	C	T	84.65	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
10958	chrY	10000217	.	T	C	84.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
10959	chrY	10000223	.	T	C	372.72	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
10960	chrY	10000226	.	T	A	78.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
10961	chrY	10000235	.	T	G	81.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
10962	chrY	10000250	.	T	G	78.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
10963	chrY	10000256	.	T	C	1341.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10964	chrY	10000259	.	C	A	1212.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
10965	chrY	10000296	.	A	C	1402.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10966	chrY	10000315	.	T	C	1478.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10967	chrY	10000322	.	T	G	1526.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10968	chrY	10000342	.	T	A	1469.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10969	chrY	10000344	.	C	T	1427.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10970	chrY	10000351	.	G	A	1255.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
10971	chrY	10000393	.	C	G	249.67	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
10972	chrY	10000430	.	T	C	593.54	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
10973	chrY	10000434	.	T	C	499.51	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
10974	chrY	10000437	.	C	T	502.48	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
10975	chrY	10000453	.	T	G	290.85	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10976	chrY	10000461	.	C	T	264.01	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10977	chrY	10000462	.	A	G	266.84	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10978	chrY	10000488	.	T	C	32.27	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
10979	chrY	10000489	.	G	A	32.28	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
10980	chrY	10000770	.	T	A	168.62	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10981	chrY	10000787	.	T	C	172.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10982	chrY	10000808	.	G	A	127.47	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10983	chrY	10000815	.	A	G	135.07	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10984	chrY	10001077	.	A	G	68.16	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10985	chrY	10001108	.	C	G	146.31	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10986	chrY	10001116	.	C	T	140.02	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10987	chrY	10001127	.	G	A	137.88	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10988	chrY	10001359	.	T	C	477.10	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
10989	chrY	10001380	.	C	A	531.98	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10990	chrY	10001384	.	C	T	529.89	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
10991	chrY	10001411	.	T	C	69.05	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
10992	chrY	10001987	.	T	G	1688.63	PASS	AC=6;AF=0.273;AN=22;DP=186;FS=0.0
10993	chrY	10002645	.	T	C	163.72	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
10994	chrY	10002652	.	G	A	156.31	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
10995	chrY	10002800	.	G	C	415.86	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
10996	chrY	10002807	.	G	A	528.64	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
10997	chrY	10002865	.	G	A	734.62	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
10998	chrY	10002870	.	T	G	1568.12	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
10999	chrY	10002889	.	A	T	1153.24	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
11000	chrY	10002931	.	T	C	823.66	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
11001	chrY	10002949	.	C	A	1177.74	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
11002	chrY	10002958	.	C	T	1014.03	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
11003	chrY	10003014	.	C	T	44.94	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
11004	chrY	10003150	.	C	G	56.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11005	chrY	10003155	.	T	C	281.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11006	chrY	10003168	.	A	T	2018.47	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11007	chrY	10003184	.	G	A	3623.09	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11008	chrY	10003195	.	G	C	5105.12	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11009	chrY	10003201	.	T	A	174.72	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11010	chrY	10003207	.	A	C	5693.24	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
11011	chrY	10003211	.	T	G	398.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11012	chrY	10003226	.	C	G	10823.13	PASS	AC=19;AF=0.271;AN=70;BaseQ
11013	chrY	10003228	.	T	A	10772.13	PASS	AC=19;AF=0.271;AN=70;BaseQ
11014	chrY	10003258	.	T	A	472.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11015	chrY	10003270	.	C	T	410.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11016	chrY	10003274	.	A	G	3780.03	my_snp_filter	AC=20;AF=0.294;AN=68;BaseQ
11017	chrY	10003281	.	G	T	118.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11018	chrY	10003299	.	G	A	1091.13	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
11019	chrY	10003531	.	C	T	79.12	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
11020	chrY	10003552	.	G	A	97.67	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=

11021	chrY	10003559	.	T	C	94.16	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11022	chrY	10003560	.	G	C	94.67	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11023	chrY	10003921	.	T	A	10862.96	PASS	AC=68;AF=1.00;AN=68;DP=35
11024	chrY	10003956	.	C	T	30.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11025	chrY	10003957	.	G	T	153.89	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
11026	chrY	10003991	.	T	C	211.90	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
11027	chrY	10004006	.	C	A	240.45	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
11028	chrY	10004051	.	G	A	129.10	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
11029	chrY	10004064	.	T	A	150.26	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11030	chrY	10004070	.	G	T	135.93	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11031	chrY	10004340	.	G	A	145.61	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
11032	chrY	10004341	.	T	A	169.43	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
11033	chrY	10004354	.	A	G	220.88	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
11034	chrY	10004369	.	A	G	799.32	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11035	chrY	10004373	.	T	C	896.12	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11036	chrY	10004377	.	A	G	78.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11037	chrY	10004382	.	C	T	78.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11038	chrY	10004383	.	T	G	78.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11039	chrY	10004407	.	T	G	1374.12	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11040	chrY	10004408	.	C	G	1154.22	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
11041	chrY	10004416	.	C	T	97.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11042	chrY	10004419	.	G	A	119.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11043	chrY	10004446	.	A	C	503.62	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11044	chrY	10004450	.	C	T	193.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11045	chrY	10004471	.	A	G	30.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11046	chrY	10004500	.	C	T	33.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11047	chrY	10004520	.	T	G	32.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11048	chrY	10004540	.	G	A	37.13	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
11049	chrY	10004583	.	T	A	68.19	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
11050	chrY	10004587	.	T	G	67.83	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
11051	chrY	10004701	.	A	G	55.47	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
11052	chrY	10004726	.	C	T	132.70	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
11053	chrY	10004757	.	G	A	52.07	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
11054	chrY	10004773	.	T	A	58.61	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
11055	chrY	10004775	.	A	C	148.55	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
11056	chrY	10004776	.	C	T	377.12	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
11057	chrY	10004786	.	T	C	143.55	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
11058	chrY	10004792	.	C	G	336.95	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
11059	chrY	10004796	.	G	T	560.74	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=
11060	chrY	10004842	.	T	A	76.20	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
11061	chrY	10004846	.	C	A	100.20	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
11062	chrY	10004861	.	G	A,*	258.33	PASS	AC=1,1;AF=0.031,0.031;AN=32;BaseQ
11063	chrY	10005430	.	A	C	64.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11064	chrY	10005433	.	T	C	63.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11065	chrY	10005436	.	G	T	67.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11066	chrY	10005468	.	A	G	9127.89	PASS	AC=58;AF=0.829;AN=70;DP=424;FS=0.
11067	chrY	10005568	.	A	G	171.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11068	chrY	10005759	.	C	A	1356.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11069	chrY	10005764	.	A	T	1437.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11070	chrY	10005769	.	A	G	421.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11071	chrY	10005770	.	C	T	2792.75	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
11072	chrY	10005771	.	G	A	31.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11073	chrY	10005795	.	G	A	2238.70	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
11074	chrY	10005798	.	C	G	72.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11075	chrY	10005806	.	G	T	89.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11076	chrY	10005814	.	G	A	5382.96	my_snp_filter	AC=28;AF=0.400;AN=70;BaseQ
11077	chrY	10005818	.	G	A	53.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11078	chrY	10005824	.	G	T	57.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11079	chrY	10005836	.	A	C	4308.25	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11080	chrY	10005848	.	T	A	6327.55	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
11081	chrY	10005856	.	A	T,C	7439.05	PASS	AC=22,9;AF=0.314,0.129;AN=70;BaseQ
11082	chrY	10005863	.	G	C	4428.12	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
11083	chrY	10005866	.	C	T	815.76	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11084	chrY	10005868	.	G	C	791.99	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11085	chrY	10005870	.	G	A	137.89	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11086	chrY	10005874	.	A	G	659.25	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11087	chrY	10005877	.	G	A	87.33	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11088	chrY	10005883	.	A	T	7155.49	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
11089	chrY	10005885	.	A	C	123.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11090	chrY	10005893	.	T	G	7003.60	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
11091	chrY	10005896	.	T	C	134.01	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
11092	chrY	10005900	.	A	G	6824.09	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
11093	chrY	10005901	.	T	G	9725.18	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
11094	chrY	10005913	.	G	T	7129.60	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
11095	chrY	10005919	.	T	C	11610.91	PASS	AC=15;AF=0.259;AN=58;BaseQ
11096	chrY	10005920	.	C	A	7498.40	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=

11097	chrY	10005928	.	A	G	7251.22	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
11098	chrY	10005933	.	C	T	7084.31	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
11099	chrY	10005934	.	T	A	839.79	my_snp_filter	AC=12;AF=0.182;AN=66;BaseQ
11100	chrY	10005937	.	C	G	7052.47	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
11101	chrY	10005939	.	G	C	56.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11102	chrY	10005978	.	G	A	3764.10	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11103	chrY	10005981	.	C	T	111.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11104	chrY	10005992	.	G	A	13916.55	PASS	AC=34;AF=0.486;AN=70;BaseQ
11105	chrY	10005997	.	A	T	4861.83	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11106	chrY	10005998	.	G	A	51.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11107	chrY	10006003	.	G	A	3346.12	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
11108	chrY	10006006	.	G	T	4864.05	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11109	chrY	10006018	.	G	C	2728.50	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
11110	chrY	10006023	.	T	G	37.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11111	chrY	10006029	.	G	C	116.69	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11112	chrY	10006033	.	T	G	13016.77	PASS	AC=22;AF=0.379;AN=58;BaseQ
11113	chrY	10006034	.	G	T	5072.47	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
11114	chrY	10006036	.	A	C	162.05	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11115	chrY	10006038	.	G	T	4189.88	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
11116	chrY	10006042	.	A	G	4127.43	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
11117	chrY	10006044	.	T	C	184.27	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
11118	chrY	10006049	.	C	G	2674.71	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
11119	chrY	10006050	.	C	G,A	4928.14	PASS	AC=7,7;AF=0.109,0.109;AN=64;BaseQ
11120	chrY	10006051	.	G	T	3952.96	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
11121	chrY	10006053	.	T	C	3011.59	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
11122	chrY	10006054	.	G	T	251.08	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
11123	chrY	10006058	.	A	C	3697.89	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
11124	chrY	10006067	.	T	G	266.06	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
11125	chrY	10006069	.	G	A	10540.08	PASS	AC=17;AF=0.327;AN=52;BaseQ
11126	chrY	10006072	.	G	A	130.01	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
11127	chrY	10006089	.	C	A	2720.07	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
11128	chrY	10006098	.	C	G	1121.70	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11129	chrY	10006108	.	G	T	341.98	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11130	chrY	10006119	.	G	T	216.34	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
11131	chrY	10006122	.	C	A	1775.49	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11132	chrY	10006127	.	T	C	2352.53	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
11133	chrY	10006128	.	G	C	1405.34	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
11134	chrY	10006130	.	T	C	4840.41	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=
11135	chrY	10006131	.	G	A	2992.81	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
11136	chrY	10006139	.	G	A	3392.28	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
11137	chrY	10006145	.	T	G	2097.90	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
11138	chrY	10006148	.	C	T,A,*	3584.52	PASS	AC=9,6,4;AF=0.196,0.130,0.087;AN=
11139	chrY	10006165	.	G	C	1174.58	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11140	chrY	10006173	.	T	G	17807.82	PASS	AC=21;AF=0.477;AN=44;BaseQ
11141	chrY	10006198	.	C	T	11980	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11142	chrY	10006207	.	G	A	12134.21	PASS	AC=21;AF=0.300;AN=70;BaseQ
11143	chrY	10006250	.	C	T	5513.78	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
11144	chrY	10006253	.	C	T	2495.35	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
11145	chrY	10006267	.	A	G	2492.63	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
11146	chrY	10006280	.	G	C	1321.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11147	chrY	10006290	.	G	T	32.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11148	chrY	10006295	.	A	C	585.67	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
11149	chrY	10006296	.	G	C	842.55	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11150	chrY	10006298	.	T	C	3388.85	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11151	chrY	10006300	.	A	T	13082.26	PASS	AC=31;AF=0.534;AN=58;BaseQ
11152	chrY	10006311	.	A	G	7048.59	my_snp_filter	AC=23;AF=0.397;AN=58;BaseQ
11153	chrY	10006316	.	T	C,*	2215.92	my_snp_filter	AC=9,1;AF=0.161,0.018;AN=
11154	chrY	10006321	.	T	C	1113.02	my_snp_filter	AC=7;AF=0.152;AN=46;BaseQ
11155	chrY	10006325	.	G	A	330.57	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
11156	chrY	10006331	.	C	T	334.87	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
11157	chrY	10006337	.	T	G	112.87	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11158	chrY	10006346	.	A	G	53.42	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
11159	chrY	10006351	.	G	A	50.39	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
11160	chrY	10006352	.	C	T	50.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
11161	chrY	10006795	.	T	C	1148.30	my_snp_filter	AC=12;AF=0.200;AN=60;BaseQ
11162	chrY	10006796	.	C	G	205.50	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
11163	chrY	10006836	.	C	A	1234.15	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
11164	chrY	10006838	.	A	C	297.25	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
11165	chrY	10006844	.	T	C	1254	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
11166	chrY	10006848	.	C	G	207.69	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11167	chrY	10006851	.	C	G	783.01	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
11168	chrY	10006869	.	C	T	540.71	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
11169	chrY	10006920	.	C	T	4688.28	PASS	AC=34;AF=0.548;AN=62;BaseQRankSum=
11170	chrY	10007053	.	C	T	1076.41	PASS	AC=6;AF=0.086;AN=70;DP=692;FS=0.0
11171	chrY	10007275	.	C	T	1125.95	PASS	AC=6;AF=0.094;AN=64;DP=377;FS=0.0
11172	chrY	10007464	.	T	C	152.59	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=

11173	chrY	10007465	.	G	A	152.99	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11174	chrY	10007473	.	A	G	520.88	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
11175	chrY	10007476	.	A	G	559.62	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
11176	chrY	10007480	.	G	C	602.17	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
11177	chrY	10007487	.	T	C	1017.63	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
11178	chrY	10007498	.	G	A	1407.33	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
11179	chrY	10007500	.	A	C	1453.22	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
11180	chrY	10007514	.	A	G	2001.11	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
11181	chrY	10007521	.	G	A	2009.24	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
11182	chrY	10007524	.	G	C	1865.79	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
11183	chrY	10007539	.	T	C	2140.91	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
11184	chrY	10007546	.	A	G	2157.87	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
11185	chrY	10007557	.	G	A	2277.52	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
11186	chrY	10007576	.	G	C	785.19	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
11187	chrY	10007605	.	G	A	38.32	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
11188	chrY	10007612	.	C	T	2132.21	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
11189	chrY	10007637	.	C	T	381.47	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
11190	chrY	10007641	.	G	A	4134.42	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
11191	chrY	10007660	.	T	G	5382.95	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
11192	chrY	10007669	.	C	T	1004.14	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
11193	chrY	10007674	.	C	G	1715.42	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
11194	chrY	10007682	.	T	C	7515.88	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
11195	chrY	10007688	.	C	T	157.81	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
11196	chrY	10007697	.	C	T	76.62	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
11197	chrY	10007709	.	C	A	14632.71	PASS	AC=28;AF=0.412;AN=68;BaseQ
11198	chrY	10007710	.	G	A	37.90	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
11199	chrY	10007727	.	G	A	16430.06	PASS	AC=31;AF=0.456;AN=68;BaseQ
11200	chrY	10007740	.	C	T	282.94	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11201	chrY	10007741	.	G	A	14167.28	PASS	AC=27;AF=0.397;AN=68;BaseQ
11202	chrY	10007745	.	T	C	6365.72	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
11203	chrY	10007778	.	A	G	11860.26	PASS	AC=28;AF=0.412;AN=68;BaseQ
11204	chrY	10007794	.	G	T	15754.76	my_snp_filter	AC=29;AF=0.439;AN=66;BaseQ
11205	chrY	10007797	.	C	G	15560	my_snp_filter	AC=29;AF=0.439;AN=66;BaseQ
11206	chrY	10007803	.	G	T	109.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11207	chrY	10007822	.	T	C	11382.32	PASS	AC=28;AF=0.412;AN=68;BaseQ
11208	chrY	10007824	.	T	G	11282.65	PASS	AC=28;AF=0.412;AN=68;BaseQ
11209	chrY	10007830	.	T	C	2369.65	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
11210	chrY	10007833	.	C	A	9135.38	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
11211	chrY	10007870	.	A	G	76.57	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
11212	chrY	10007877	.	G	A	114.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11213	chrY	10007881	.	T	G	102.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11214	chrY	10008013	.	A	G	113.31	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11215	chrY	10008030	.	T	G	351.31	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
11216	chrY	10008082	.	G	A	1155.12	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
11217	chrY	10008083	.	A	C	1732.57	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
11218	chrY	10008113	.	C	T	129.75	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
11219	chrY	10008152	.	G	A	249.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11220	chrY	10008158	.	T	C	3912.77	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
11221	chrY	10008159	.	G	T	244.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11222	chrY	10008166	.	C	T	4354.58	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
11223	chrY	10008190	.	T	C	280.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11224	chrY	10008198	.	T	C	980.30	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11225	chrY	10008203	.	T	A	281.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11226	chrY	10008206	.	A	C	3914.48	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11227	chrY	10008215	.	G	T	54.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11228	chrY	10008221	.	T	G	3690.97	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
11229	chrY	10008234	.	T	C	4555.77	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
11230	chrY	10008254	.	C	T	3784.48	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
11231	chrY	10008259	.	A	G	3739.52	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
11232	chrY	10008262	.	C	T	1711.55	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11233	chrY	10008278	.	A	G,*	2117.86	PASS	AC=8,7;AF=0.118,0.103;AN=68;BaseQ
11234	chrY	10008279	.	C	A	976.75	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
11235	chrY	10008290	.	C	T,*	1493.07	PASS	AC=8,8;AF=0.121,0.121;AN=66;BaseQ
11236	chrY	10008291	.	C	G,*	1418.59	PASS	AC=8,8;AF=0.121,0.121;AN=66;BaseQ
11237	chrY	10008329	.	G	C	892.73	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11238	chrY	10008331	.	T	G	2085.66	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
11239	chrY	10008337	.	G	A	2115.62	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11240	chrY	10008365	.	C	T	2693.45	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11241	chrY	10008366	.	A	G	2692.40	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11242	chrY	10008367	.	C	T	811.07	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11243	chrY	10008398	.	T	C	111.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11244	chrY	10008403	.	C	T	2795.62	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
11245	chrY	10008412	.	T	C	3042.80	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
11246	chrY	10008420	.	C	A	3159.99	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
11247	chrY	10008444	.	T	C	3555.11	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
11248	chrY	10008450	.	C	G	1636.70	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=

11249	chrY	10008500	.	C	T	318.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
11250	chrY	10008505	.	T	A	473.17	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11251	chrY	10008510	.	C	G	198.21	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11252	chrY	10008538	.	C	T	101.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11253	chrY	10008791	.	T	C	4693.12	PASS	AC=54;AF=1.00;AN=54;DP=215;FS=0.0
11254	chrY	10009025	.	A	G	176.13	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
11255	chrY	10009033	.	C	G	949.72	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
11256	chrY	10009046	.	A	C	1097.12	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
11257	chrY	10009074	.	A	G	102.71	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
11258	chrY	10009098	.	A	G	1207.68	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
11259	chrY	10009124	.	T	C	479.70	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
11260	chrY	10009132	.	C	A	209.05	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
11261	chrY	10009149	.	G	A	416.43	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
11262	chrY	10009181	.	A	C	274.31	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
11263	chrY	10009194	.	G	C	183.50	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
11264	chrY	10009220	.	T	C	83.82	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
11265	chrY	10009232	.	T	C	284.38	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11266	chrY	10009233	.	A	T	285.03	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11267	chrY	10009264	.	T	C	3195.95	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
11268	chrY	10009289	.	T	C	6187.99	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
11269	chrY	10009290	.	A	G	6255.20	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
11270	chrY	10009291	.	G	A	902.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
11271	chrY	10009296	.	G	A	6645.93	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
11272	chrY	10009312	.	G	A	2040.79	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11273	chrY	10009343	.	A	G	11347.33	PASS	AC=29;AF=0.414;AN=70;BaseQ
11274	chrY	10009345	.	G	A	1205.16	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11275	chrY	10009351	.	C	A	11475.97	PASS	AC=28;AF=0.400;AN=70;BaseQ
11276	chrY	10009362	.	T	G	11508.15	PASS	AC=30;AF=0.429;AN=70;BaseQ
11277	chrY	10009366	.	C	T	5128.18	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
11278	chrY	10009372	.	C	T	5392.18	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
11279	chrY	10009387	.	G	T	3277.45	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11280	chrY	10009398	.	T	C,G	7419.72	PASS	AC=28,4;AF=0.400,0.057;AN=70;BaseQ
11281	chrY	10009403	.	G	A	140.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11282	chrY	10009432	.	C	T	7364.65	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
11283	chrY	10009440	.	G	A	6397.11	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
11284	chrY	10009441	.	C	T	136.93	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11285	chrY	10009455	.	G	A	896.02	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
11286	chrY	10009458	.	G	A	403.37	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
11287	chrY	10009474	.	G	C	1327.28	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
11288	chrY	10009484	.	G	C	374.63	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
11289	chrY	10009486	.	A	C	2059.57	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
11290	chrY	10009490	.	A	G	1271.30	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
11291	chrY	10009491	.	T	C	1240.29	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
11292	chrY	10009501	.	T	C	158.30	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11293	chrY	10009509	.	T	C	564.71	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
11294	chrY	10009528	.	G	C	305.78	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
11295	chrY	10009532	.	A	C	364.25	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
11296	chrY	10009537	.	G	A	352.77	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
11297	chrY	10009556	.	A	G	50.63	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
11298	chrY	10009603	.	T	C	279.93	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11299	chrY	10009608	.	T	C	273.43	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11300	chrY	10009610	.	G	A	273.48	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11301	chrY	10009616	.	C	T	43.44	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
11302	chrY	10009699	.	G	A	253.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11303	chrY	10009711	.	A	T	334.66	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11304	chrY	10009713	.	C	G	528.74	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
11305	chrY	10009735	.	A	G	269.92	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11306	chrY	10009744	.	G	A	252.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11307	chrY	10009746	.	A	T	1163.80	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
11308	chrY	10009770	.	G	A	208.24	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
11309	chrY	10009786	.	A	T	1551.17	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
11310	chrY	10009795	.	A	G	1465.93	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
11311	chrY	10009802	.	T	C	1474.69	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
11312	chrY	10009815	.	G	A	426.90	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
11313	chrY	10009844	.	A	G	2003.31	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
11314	chrY	10009851	.	G	A	692.68	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
11315	chrY	10009853	.	G	A	225.28	PASS	AC=4;AF=0.063;AN=64;DP=483;FS=0.0
11316	chrY	10009854	.	G	T	659.65	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
11317	chrY	10009857	.	A	G	1813.75	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum=
11318	chrY	10009877	.	C	T	1315.77	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
11319	chrY	10009881	.	A	G	1090.33	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
11320	chrY	10009909	.	T	C	103	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
11321	chrY	10009914	.	T	C	99.23	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
11322	chrY	10010279	.	T	C	200.55	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
11323	chrY	10010285	.	A	T	218.12	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11324	chrY	10010308	.	C	A	222.67	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=

11325	chrY	10010428	.	A	G	2285.15	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
11326	chrY	10010458	.	T	C	387.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11327	chrY	10010465	.	T	C	640.88	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
11328	chrY	10010487	.	C	T	66.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11329	chrY	10010511	.	G	A	31.38	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
11330	chrY	10010520	.	T	G	4304.75	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
11331	chrY	10010531	.	A	G	4657.47	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
11332	chrY	10010573	.	G	A	6870.63	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
11333	chrY	10010592	.	G	C	8137.84	PASS	AC=25;AF=0.431;AN=58;BaseQRankSum=
11334	chrY	10010594	.	G	A	31.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11335	chrY	10010597	.	C	T	8225.11	PASS	AC=25;AF=0.431;AN=58;BaseQRankSum=
11336	chrY	10010636	.	G	A	654.49	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
11337	chrY	10010637	.	T	G	6272.75	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
11338	chrY	10010679	.	G	T	1304.01	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
11339	chrY	10010688	.	G	C	1166.04	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
11340	chrY	10010694	.	G	C	4168.46	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
11341	chrY	10010715	.	G	A,T	952.70	PASS	AC=9,3;AF=0.136,0.045;AN=66;BaseQ
11342	chrY	10010717	.	T	C	1749.88	my_snp_filter	AC=16;AF=0.250;AN=64;BaseQ
11343	chrY	10010718	.	G	A	732.66	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
11344	chrY	10010780	.	A	C	59.84	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11345	chrY	10010782	.	C	T	60.29	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11346	chrY	10010978	.	A	T	1321.86	my_snp_filter	AC=16;AF=0.267;AN=60;BaseQ
11347	chrY	10011009	.	T	G	34.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11348	chrY	10011019	.	C	T	416.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11349	chrY	10011033	.	G	T	465.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11350	chrY	10011052	.	A	G	106.18	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11351	chrY	10011060	.	C	T	1228.90	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11352	chrY	10011064	.	C	T	1194.97	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11353	chrY	10011091	.	T	C	468.56	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11354	chrY	10011092	.	G	C	669.18	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
11355	chrY	10011093	.	T	C	7238.97	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
11356	chrY	10011107	.	A	C	273.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11357	chrY	10011128	.	T	C	5447.33	my_snp_filter	AC=20;AF=0.303;AN=66;BaseQ
11358	chrY	10011131	.	A	G	878.71	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
11359	chrY	10011135	.	C	A	256.47	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
11360	chrY	10011166	.	A	C	3402.80	my_snp_filter	AC=19;AF=0.306;AN=62;BaseQ
11361	chrY	10011202	.	T	A	192.26	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
11362	chrY	10011209	.	T	C	97.40	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
11363	chrY	10011216	.	T	C	118.19	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
11364	chrY	10011231	.	G	T	79.44	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11365	chrY	10011237	.	C	T	81.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11366	chrY	10011238	.	A	G	84.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11367	chrY	10011277	.	A	G	1513.70	my_snp_filter	AC=14;AF=0.280;AN=50;BaseQ
11368	chrY	10011303	.	A	G	13310.15	PASS	AC=35;AF=0.500;AN=70;BaseQ
11369	chrY	10011321	.	C	T	87.90	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
11370	chrY	10011344	.	A	G	27454.93	PASS	AC=39;AF=0.557;AN=70;BaseQ
11371	chrY	10011413	.	T	C	101.41	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11372	chrY	10011435	.	A	C	7372.52	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
11373	chrY	10011438	.	A	C	99.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11374	chrY	10011444	.	A	G	116.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11375	chrY	10011487	.	A	G	6288.27	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11376	chrY	10011498	.	G	C,T	37099.80	PASS	AC=35,16;AF=0.500,0.229;AN=70
11377	chrY	10011501	.	C	T	9452.45	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
11378	chrY	10011502	.	A	G	21714.75	PASS	AC=35;AF=0.500;AN=70;BaseQ
11379	chrY	10011533	.	G	T	314.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11380	chrY	10011542	.	G	T	149.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11381	chrY	10011545	.	T	G	41269.21	PASS	AC=38;AF=0.543;AN=70;BaseQ
11382	chrY	10011565	.	C	G	46.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11383	chrY	10011581	.	G	A,C	735.35	my_snp_filter	AC=10,2;AF=0.143,0.029;AN=70
11384	chrY	10011585	.	G	A	197.05	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11385	chrY	10011606	.	C	T	597.41	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
11386	chrY	10011617	.	G	A	133.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11387	chrY	10011625	.	C	T	518.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11388	chrY	10011648	.	T	G	34689.06	PASS	AC=32;AF=0.471;AN=68;BaseQ
11389	chrY	10011673	.	G	A	77287.94	PASS	AC=35;AF=0.515;AN=68;BaseQ
11390	chrY	10011677	.	G	A	87547.36	PASS	AC=35;AF=0.515;AN=68;BaseQ
11391	chrY	10011678	.	T	C	3332.94	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11392	chrY	10011697	.	G	T	1529.18	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
11393	chrY	10011698	.	A	G	20771.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11394	chrY	10011723	.	G	A	4370.62	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11395	chrY	10011724	.	G	A	58378.60	PASS	AC=36;AF=0.514;AN=70;BaseQ
11396	chrY	10011746	.	G	C	4978.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11397	chrY	10011762	.	A	G	51054.92	PASS	AC=34;AF=0.486;AN=70;BaseQ
11398	chrY	10011766	.	C	T,A	5260.96	PASS	AC=7,12;AF=0.100,0.171;AN=70;BaseQ
11399	chrY	10011768	.	C	T	4740.12	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11400	chrY	10011769	.	C	T	4913.05	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=

11401	chrY	10011839	.	A	C	74894.34	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
11402	chrY	10011857	.	A	G	15028.10	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
11403	chrY	10011878	.	G	A	6379.92	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
11404	chrY	10011923	.	T	G	591.72	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
11405	chrY	10011931	.	C	A	91475.74	PASS	AC=56;AF=0.800;AN=70;BaseQRankSum=
11406	chrY	10011960	.	T	C	2352.80	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
11407	chrY	10011992	.	A	G	201.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11408	chrY	10011999	.	C	A	221.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
11409	chrY	10012012	.	T	A	43572.67	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum=
11410	chrY	10012034	.	A	G	2596.53	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
11411	chrY	10012062	.	A	G	7137.84	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
11412	chrY	10012068	.	A	T	7053.48	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
11413	chrY	10012071	.	G	C	51425.19	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum=
11414	chrY	10012098	.	G	C	48927.55	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
11415	chrY	10012104	.	C	T	463.82	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
11416	chrY	10012109	.	T	C	36655.86	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
11417	chrY	10012110	.	G	A	77.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11418	chrY	10012116	.	C	T	141.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11419	chrY	10012117	.	G	A	1767.97	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11420	chrY	10012138	.	A	G	33275.86	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQRankSum=
11421	chrY	10012140	.	A	G	33078.86	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQRankSum=
11422	chrY	10012141	.	G	A	32319.86	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQRankSum=
11423	chrY	10012164	.	C	G	7572.50	my_snp_filter	AC=23;AF=0.371;AN=62;BaseQRankSum=
11424	chrY	10012165	.	G	A	133.58	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
11425	chrY	10012168	.	T	C	10049.01	my_snp_filter	AC=25;AF=0.368;AN=70;BaseQRankSum=
11426	chrY	10012169	.	G	A	1654.85	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11427	chrY	10012176	.	C	T	613.85	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11428	chrY	10012178	.	C	G	4216.67	my_snp_filter	AC=16;AF=0.235;AN=68;BaseQRankSum=
11429	chrY	10012186	.	C	A	4986.96	my_snp_filter	AC=19;AF=0.288;AN=66;BaseQRankSum=
11430	chrY	10012189	.	T	G	4638.50	my_snp_filter	AC=20;AF=0.294;AN=68;BaseQRankSum=
11431	chrY	10012207	.	A	G	40.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
11432	chrY	10012209	.	T	C	703.30	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
11433	chrY	10012314	.	A	T	134.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11434	chrY	10012349	.	G	C	456.67	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
11435	chrY	10012354	.	G	A	160	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11436	chrY	10012395	.	G	A	188.03	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11437	chrY	10012404	.	T	C	135.18	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11438	chrY	10012414	.	A	G	112.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11439	chrY	10012449	.	A	G	597.88	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
11440	chrY	10012458	.	G	A	740.94	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
11441	chrY	10012471	.	C	A	1873.26	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQRankSum=
11442	chrY	10012475	.	A	C	2491.56	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQRankSum=
11443	chrY	10012544	.	G	A	540.03	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
11444	chrY	10012545	.	A	T	538.37	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
11445	chrY	10012568	.	G	A	135.16	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
11446	chrY	10012575	.	C	G	3218.59	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11447	chrY	10012587	.	G	A	969.32	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11448	chrY	10012592	.	G	C	29914.08	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
11449	chrY	10012600	.	T	G	39882.17	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
11450	chrY	10012601	.	T	G	31566.75	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
11451	chrY	10012612	.	C	T	1002.14	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
11452	chrY	10012613	.	C	T	31832.65	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
11453	chrY	10012614	.	C	T	8854.47	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
11454	chrY	10012615	.	G	A	1759.67	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11455	chrY	10012630	.	G	T	1820.53	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11456	chrY	10012633	.	T	C	1287.33	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11457	chrY	10012644	.	A	T	180.26	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
11458	chrY	10012649	.	C	A,G,T	522.52	PASS	AC=6,1,1;AF=0.086,0.014,0.014;AN=70;BaseQRankSum=
11459	chrY	10012650	.	A	G	31471.01	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum=
11460	chrY	10012662	.	A	G	33916.09	PASS	AC=37;AF=0.544;AN=68;BaseQRankSum=
11461	chrY	10012669	.	G	A	2802.67	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
11462	chrY	10012671	.	C	A,G	864.65	PASS	AC=5,4;AF=0.071,0.057;AN=70;BaseQRankSum=
11463	chrY	10012674	.	G	A	1745.62	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11464	chrY	10012680	.	G	A	4606.54	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11465	chrY	10012684	.	C	G	848.76	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11466	chrY	10012701	.	C	T	1602.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11467	chrY	10012704	.	G	T	18227.03	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
11468	chrY	10012712	.	A	G	2555.51	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
11469	chrY	10012727	.	C	A	426.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
11470	chrY	10012728	.	G	A	25813.61	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
11471	chrY	10012731	.	A	G	69.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11472	chrY	10012737	.	C	G	26545.93	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
11473	chrY	10012749	.	G	T	87.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
11474	chrY	10012758	.	T	C	145.72	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
11475	chrY	10012765	.	C	T	369.40	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
11476	chrY	10012777	.	C	T	99.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

11477	chrY	10012779	.	C	T	273.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11478	chrY	10012787	.	T	C	315.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11479	chrY	10012788	.	T	C	315.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11480	chrY	10012789	.	C	A	983.62	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
11481	chrY	10012792	.	G	T	148.85	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11482	chrY	10012801	.	C	T	456.23	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11483	chrY	10012807	.	C	T	1542.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11484	chrY	10012810	.	T	A	941.10	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11485	chrY	10012814	.	T	C	13884.02	PASS	AC=27;AF=0.397;AN=68;BaseQ
11486	chrY	10012815	.	C	T	1800.46	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
11487	chrY	10012816	.	C	T	2754.58	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
11488	chrY	10012817	.	G	T	630.81	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11489	chrY	10012824	.	C	T	87.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11490	chrY	10012825	.	C	T	67.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11491	chrY	10012826	.	T	G	29687.13	PASS	AC=30;AF=0.455;AN=66;BaseQ
11492	chrY	10012828	.	A	G	69.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11493	chrY	10012838	.	T	C,*	7996.90	PASS	AC=21,6;AF=0.328,0.094;AN=64;BaseQ
11494	chrY	10012839	.	T	C,G,*	6912.69	PASS	AC=22,4,4;AF=0.344,0.063,0.063;AN=
11495	chrY	10012847	.	T	C	8823.28	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
11496	chrY	10012861	.	G	T	35587.51	PASS	AC=31;AF=0.500;AN=62;BaseQ
11497	chrY	10012867	.	G	C	35954.51	PASS	AC=31;AF=0.500;AN=62;BaseQ
11498	chrY	10012925	.	C	T	1847.64	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
11499	chrY	10012931	.	C	T	1843.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11500	chrY	10012937	.	C	T	1295.58	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11501	chrY	10012944	.	T	C	15956.64	PASS	AC=20;AF=0.400;AN=50;BaseQ
11502	chrY	10012961	.	A	C	11517.27	PASS	AC=14;AF=0.269;AN=52;BaseQ
11503	chrY	10012966	.	T	C	9639.39	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
11504	chrY	10012977	.	G	C	7839.93	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
11505	chrY	10012981	.	A	G	7429.13	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
11506	chrY	10012985	.	T	C	7389.08	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11507	chrY	10012993	.	A	G	3487.88	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11508	chrY	10013011	.	C	G	1615.08	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11509	chrY	10013014	.	C	T	7741.74	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
11510	chrY	10013018	.	G	C	7256.44	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
11511	chrY	10013029	.	T	G	5576.86	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum=
11512	chrY	10013058	.	C	T	339.38	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
11513	chrY	10013077	.	A	G	4764.20	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=
11514	chrY	10013079	.	C	T	981.87	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
11515	chrY	10013083	.	G	A	161.94	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11516	chrY	10013095	.	T	C,G	2885.02	PASS	AC=7,14;AF=0.113,0.226;AN=62;BaseQ
11517	chrY	10013106	.	G	T	2879.78	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
11518	chrY	10013109	.	A	C	3040.08	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
11519	chrY	10013110	.	G	C	124.15	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
11520	chrY	10013115	.	G	T	1486.64	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
11521	chrY	10013132	.	A	G	3634.12	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
11522	chrY	10013138	.	G	A	3566.15	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
11523	chrY	10013144	.	G	A	2561.33	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
11524	chrY	10013148	.	G	A	3451.88	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
11525	chrY	10013155	.	G	A	3769.39	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
11526	chrY	10013156	.	T	C	4952.66	PASS	AC=13;AF=0.283;AN=46;BaseQRankSum=
11527	chrY	10013164	.	T	G	5563.57	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=
11528	chrY	10013175	.	C	G	574	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11529	chrY	10013187	.	G	T	861.32	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11530	chrY	10013193	.	G	T	818.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11531	chrY	10013196	.	C	T	335.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11532	chrY	10013197	.	G	A,T	2965.47	PASS	AC=16,8;AF=0.229,0.114;AN=70;BaseQ
11533	chrY	10013198	.	C	T	1091.74	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
11534	chrY	10013211	.	C	G	1269.01	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11535	chrY	10013213	.	A	C	21825.47	PASS	AC=36;AF=0.514;AN=70;BaseQ
11536	chrY	10013214	.	G	A	2673	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
11537	chrY	10013234	.	G	T	21077.88	PASS	AC=36;AF=0.514;AN=70;BaseQ
11538	chrY	10013242	.	G	A	13799.68	PASS	AC=34;AF=0.486;AN=70;BaseQ
11539	chrY	10013246	.	T	C	20263.89	PASS	AC=36;AF=0.514;AN=70;BaseQ
11540	chrY	10013265	.	A	T	217.79	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11541	chrY	10013267	.	C	A	1633.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11542	chrY	10013274	.	G	A	23000.63	PASS	AC=36;AF=0.529;AN=68;BaseQ
11543	chrY	10013279	.	C	T	1330.77	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
11544	chrY	10013285	.	A	G	2301.68	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11545	chrY	10013286	.	C	T	1614.90	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
11546	chrY	10013287	.	C	T	7243.38	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
11547	chrY	10013310	.	C	T	1259.73	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11548	chrY	10013318	.	A	G	13657.32	PASS	AC=32;AF=0.471;AN=68;BaseQ
11549	chrY	10013328	.	C	G	7371.64	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
11550	chrY	10013329	.	A	G	11903.02	my_snp_filter	AC=30;AF=0.455;AN=
11551	chrY	10013342	.	C	T	786.78	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
11552	chrY	10013371	.	T	C	5705.22	my_snp_filter	AC=29;AF=0.426;AN=68;BaseQ

11553	chrY	10013372	.	G	T	5699.22	my_snp_filter	AC=29;AF=0.426;AN=68;BaseQ
11554	chrY	10013388	.	C	T	2112.41	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
11555	chrY	10013393	.	T	C	1744.03	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQ
11556	chrY	10013413	.	C	T	955.26	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
11557	chrY	10013455	.	T	C	89.91	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
11558	chrY	10013544	.	A	C	100.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11559	chrY	10013545	.	A	G	101.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11560	chrY	10013546	.	G	C	103.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11561	chrY	10013566	.	A	G	82.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11562	chrY	10013569	.	G	C	47.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11563	chrY	10013573	.	T	C	80.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11564	chrY	10013581	.	T	C	41.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11565	chrY	10013596	.	C	T	15436.64	PASS	AC=44;AF=0.647;AN=68;DP=7
11566	chrY	10013732	.	A	G	90.10	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
11567	chrY	10013763	.	G	A	101.87	my_snp_filter	AC=4;AF=0.087;AN=46;BaseQ
11568	chrY	10013781	.	T	C	257.16	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
11569	chrY	10013800	.	C	T	317.51	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
11570	chrY	10013804	.	C	T	66.14	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
11571	chrY	10013807	.	G	A	69.53	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
11572	chrY	10013856	.	A	G	69.25	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
11573	chrY	10013867	.	T	C	135.44	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
11574	chrY	10013870	.	G	A	86.48	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
11575	chrY	10013871	.	T	G	169.54	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
11576	chrY	10013883	.	G	A	108.51	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
11577	chrY	10013934	.	C	T	181.44	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
11578	chrY	10013949	.	A	T	554.98	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
11579	chrY	10013987	.	G	T	94.99	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
11580	chrY	10014024	.	T	C	528.26	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
11581	chrY	10014026	.	C	G	506.33	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
11582	chrY	10014143	.	G	C	49.48	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11583	chrY	10014158	.	T	C	137.93	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11584	chrY	10014181	.	A	G	938.68	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11585	chrY	10014203	.	A	G	173.78	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
11586	chrY	10014214	.	G	C	131.87	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
11587	chrY	10014247	.	A	G	49.36	PASS	AC=2;AF=0.042;AN=48;DP=268;FS=0.0
11588	chrY	10014254	.	T	C	641.54	PASS	AC=16;AF=0.444;AN=36;DP=256;FS=0.0
11589	chrY	10014260	.	C	A	50.37	PASS	AC=2;AF=0.048;AN=42;DP=250;FS=0.0
11590	chrY	10014263	.	C	A	1531.19	PASS	AC=22;AF=0.688;AN=32;BaseQRankSum=
11591	chrY	10014264	.	T	C	1531.19	PASS	AC=22;AF=0.688;AN=32;BaseQRankSum=
11592	chrY	10014265	.	G	A	1531.19	PASS	AC=22;AF=0.688;AN=32;BaseQRankSum=
11593	chrY	10014274	.	G	A	204.41	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
11594	chrY	10014281	.	T	A	197.76	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
11595	chrY	10014300	.	G	A	124.48	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
11596	chrY	10014303	.	C	G	113.95	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
11597	chrY	10014310	.	T	C	103.48	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
11598	chrY	10014318	.	C	T	261.50	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
11599	chrY	10014410	.	A	G	39.90	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
11600	chrY	10014443	.	T	A	660.51	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11601	chrY	10014445	.	T	G	12388	my_snp_filter	AC=30;AF=0.469;AN=64;BaseQ
11602	chrY	10014459	.	A	C	18638.34	my_snp_filter	AC=29;AF=0.453;AN=68
11603	chrY	10014477	.	C	T	21363.25	PASS	AC=29;AF=0.483;AN=60;BaseQ
11604	chrY	10014478	.	A	G	25370.25	PASS	AC=29;AF=0.483;AN=60;BaseQ
11605	chrY	10014494	.	A	G	2217.84	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11606	chrY	10014500	.	C	T	2904.68	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11607	chrY	10014508	.	G	T	37579.79	PASS	AC=35;AF=0.500;AN=70;BaseQ
11608	chrY	10014509	.	G	T	2119.58	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11609	chrY	10014511	.	A	G	2113.32	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11610	chrY	10014512	.	A	G	38889.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11611	chrY	10014514	.	G	A	129.72	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11612	chrY	10014517	.	A	G	38578.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11613	chrY	10014518	.	G	A	1711.50	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11614	chrY	10014525	.	C	A	2580.67	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11615	chrY	10014546	.	A	T	2982.85	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11616	chrY	10014561	.	A	G	38314.19	PASS	AC=37;AF=0.529;AN=70;BaseQ
11617	chrY	10014577	.	A	G	791.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11618	chrY	10014593	.	A	G,T	20414.47	PASS	AC=31,7;AF=0.456,0.103;AN=68
11619	chrY	10014606	.	T	A	37.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11620	chrY	10014610	.	G	T	4399.16	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11621	chrY	10014613	.	A	G	41.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11622	chrY	10014627	.	T	C	19975.80	PASS	AC=30;AF=0.441;AN=68;BaseQ
11623	chrY	10014639	.	T	G	19472.30	PASS	AC=28;AF=0.412;AN=68;BaseQ
11624	chrY	10014640	.	G	A	112.67	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
11625	chrY	10014701	.	A	G	76.48	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11626	chrY	10014714	.	A	G	17921.96	PASS	AC=27;AF=0.422;AN=64;BaseQ
11627	chrY	10014729	.	A	G	14689.93	PASS	AC=21;AF=0.318;AN=66;BaseQ
11628	chrY	10014734	.	A	T	17262.19	PASS	AC=24;AF=0.387;AN=62;BaseQ

11629	chrY	10014738	.	T	C	16029.85	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
11630	chrY	10014741	.	C	T	6072.54	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
11631	chrY	10014744	.	A	G	156.36	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
11632	chrY	10014749	.	A	T	13345.84	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
11633	chrY	10014761	.	G	A	13110.46	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11634	chrY	10014766	.	A	C	4985.35	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11635	chrY	10014768	.	T	C	587.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
11636	chrY	10014779	.	G	A	460.47	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
11637	chrY	10014784	.	G	C	13827.50	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
11638	chrY	10014805	.	T	A	2731.08	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
11639	chrY	10014819	.	T	A	782.31	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11640	chrY	10014826	.	G	T	205.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11641	chrY	10014843	.	G	A	2628.55	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
11642	chrY	10014844	.	G	T	254.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11643	chrY	10014845	.	G	A	444.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11644	chrY	10014846	.	G	A	61.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
11645	chrY	10014850	.	C	T	90.42	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
11646	chrY	10014851	.	A	G	397.03	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
11647	chrY	10014859	.	A	G	341.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
11648	chrY	10014860	.	C	T	211.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11649	chrY	10014865	.	G	T	2590.81	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
11650	chrY	10014876	.	G	A	224.38	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
11651	chrY	10014879	.	G	A	430.69	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
11652	chrY	10014880	.	C	A,T	537.72	PASS	AC=3,3;AF=0.048,0.048;AN=62;BaseQRankSum=
11653	chrY	10014886	.	C	T	2067.32	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
11654	chrY	10014887	.	A	T	52.76	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
11655	chrY	10014909	.	A	T	1448.70	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
11656	chrY	10014924	.	C	T	1336.55	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
11657	chrY	10014944	.	G	T	1116.34	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
11658	chrY	10014984	.	A	T	295.49	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
11659	chrY	10015136	.	T	C	2915.83	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQRankSum=
11660	chrY	10015143	.	A	G	2768.51	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQRankSum=
11661	chrY	10015151	.	C	T	2992.81	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQRankSum=
11662	chrY	10015181	.	C	G	4091.21	my_snp_filter	AC=11;AF=0.229;AN=48;BaseQRankSum=
11663	chrY	10015192	.	A	G	1952.75	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
11664	chrY	10015203	.	G	T	2231.92	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
11665	chrY	10015215	.	C	T	56.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
11666	chrY	10015217	.	G	C	9447.30	PASS	AC=10;AF=0.500;AN=20;BaseQRankSum=
11667	chrY	10015221	.	A	T	1842.86	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
11668	chrY	10015232	.	T	C	10073.30	PASS	AC=10;AF=0.500;AN=20;BaseQRankSum=
11669	chrY	10015233	.	G	A	1595.36	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
11670	chrY	10015248	.	C	T	6690.90	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
11671	chrY	10015251	.	A	C	395.49	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
11672	chrY	10015274	.	G	A	3547.98	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
11673	chrY	10015275	.	T	C	60400.29	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
11674	chrY	10015280	.	G	T	63550.23	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
11675	chrY	10015282	.	A	G	3155.21	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11676	chrY	10015284	.	C	T	6987.10	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
11677	chrY	10015285	.	T	C	66277.91	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
11678	chrY	10015305	.	G	A	3010.25	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
11679	chrY	10015319	.	A	G	6813.43	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
11680	chrY	10015332	.	C	T	8087.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
11681	chrY	10015336	.	C	T	122965.10	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
11682	chrY	10015342	.	T	C	125240.95	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
11683	chrY	10015344	.	G	A	9820.23	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
11684	chrY	10015365	.	A	C	11339.51	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
11685	chrY	10015372	.	G	C	11179.85	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
11686	chrY	10015377	.	T	C	113554.03	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
11687	chrY	10015399	.	T	C	1990.23	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
11688	chrY	10015409	.	C	T	794.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11689	chrY	10015413	.	A	C	124519.19	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
11690	chrY	10015416	.	T	C	94588.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
11691	chrY	10015434	.	G	C	5620.14	my_snp_filter	AC=29;AF=0.414;AN=70;BaseQRankSum=
11692	chrY	10015452	.	C	T	311.71	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
11693	chrY	10015456	.	C	T	3500.37	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
11694	chrY	10015461	.	C	T	3419.75	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQRankSum=
11695	chrY	10015474	.	A	C	17988.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
11696	chrY	10015487	.	G	T	53567.76	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
11697	chrY	10015495	.	C	T	401.92	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
11698	chrY	10015518	.	T	A	142.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
11699	chrY	10015536	.	T	C	40352.65	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
11700	chrY	10015537	.	G	C	724.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11701	chrY	10015546	.	C	G	39903.86	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
11702	chrY	10015547	.	A	G	887.95	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
11703	chrY	10015550	.	T	C	39903.19	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
11704	chrY	10015556	.	G	A	668.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

11705	chrY	10015560	.	C	T	3779.16	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
11706	chrY	10015565	.	A	G	40814.30	PASS	AC=19;AF=0.396;AN=48;BaseQ
11707	chrY	10015566	.	T	C	40583.94	PASS	AC=19;AF=0.396;AN=48;BaseQ
11708	chrY	10015636	.	T	C	21647.92	PASS	AC=31;AF=0.443;AN=70;BaseQ
11709	chrY	10015668	.	C	G	71679.58	PASS	AC=34;AF=0.486;AN=70;BaseQ
11710	chrY	10015674	.	A	G	72900.61	PASS	AC=35;AF=0.500;AN=70;BaseQ
11711	chrY	10015690	.	T	C	7404.18	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
11712	chrY	10015704	.	A	G,T	82290.47	PASS	AC=33,8;AF=0.485,0.118;AN=
11713	chrY	10015706	.	G	A	1186.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
11714	chrY	10015711	.	C	T	6513.19	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
11715	chrY	10015712	.	G	A	1069.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
11716	chrY	10015728	.	T	A	86703.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11717	chrY	10015729	.	C	A	73021.72	PASS	AC=34;AF=0.486;AN=70;BaseQ
11718	chrY	10015733	.	A	C	105009.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11719	chrY	10015738	.	A	G	105177.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11720	chrY	10015745	.	C	T	387.88	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11721	chrY	10015746	.	C	T	19321.88	PASS	AC=27;AF=0.386;AN=70;BaseQ
11722	chrY	10015747	.	A	G	23363.70	PASS	AC=28;AF=0.400;AN=70;BaseQ
11723	chrY	10015749	.	T	A	387.83	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11724	chrY	10015762	.	C	T	18219.66	PASS	AC=27;AF=0.386;AN=70;BaseQ
11725	chrY	10015767	.	A	T	543.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
11726	chrY	10015776	.	A	G	114424.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11727	chrY	10015782	.	C	T	882.41	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
11728	chrY	10015784	.	C	T,A	14190.54	PASS	AC=20,10;AF=0.286,0.143;AN=
11729	chrY	10015789	.	T	C	89630.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11730	chrY	10015793	.	C	T	9332.79	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
11731	chrY	10015794	.	G	A	94521.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11732	chrY	10015802	.	C	T	11056.58	PASS	AC=23;AF=0.329;AN=70;BaseQ
11733	chrY	10015806	.	G	A	15640.45	PASS	AC=25;AF=0.368;AN=68;BaseQ
11734	chrY	10015809	.	T	C	81489.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11735	chrY	10015816	.	T	G	1051.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
11736	chrY	10015821	.	T	C	110285.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11737	chrY	10015823	.	C	T	4354.27	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
11738	chrY	10015825	.	C	T	15615.10	PASS	AC=26;AF=0.371;AN=70;BaseQ
11739	chrY	10015826	.	G	A	521.65	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11740	chrY	10015832	.	T	C	119903.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11741	chrY	10015835	.	C	T	120723.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11742	chrY	10015845	.	C	G	218.39	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11743	chrY	10015850	.	C	T	1177.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
11744	chrY	10015851	.	T	C	5617.70	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
11745	chrY	10015864	.	G	T	6524.69	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
11746	chrY	10015865	.	T	C	149143.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11747	chrY	10015876	.	T	A	9168.88	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
11748	chrY	10015885	.	A	G	206974.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
11749	chrY	10015886	.	T	G	1800.14	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
11750	chrY	10015890	.	C	A	8915.21	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
11751	chrY	10015891	.	G	T,A	1905.94	my_snp_filter	AC=5,3;AF=0.071,0.043;AN=
11752	chrY	10015903	.	T	A	4055.52	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
11753	chrY	10015905	.	C	T	20096.04	PASS	AC=29;AF=0.414;AN=70;BaseQ
11754	chrY	10015917	.	A	T	20909.03	PASS	AC=29;AF=0.414;AN=70;BaseQ
11755	chrY	10015920	.	C	T	19997.03	PASS	AC=29;AF=0.414;AN=70;BaseQ
11756	chrY	10015926	.	G	A	99622.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11757	chrY	10015941	.	C	T	6341.76	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
11758	chrY	10015943	.	T	C	16916.59	PASS	AC=29;AF=0.414;AN=70;BaseQ
11759	chrY	10015966	.	G	A	163859.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11760	chrY	10015980	.	C	G	45980.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11761	chrY	10015988	.	T	C	213360.29	PASS	AC=37;AF=0.529;AN=70;BaseQ
11762	chrY	10015989	.	G	A	4318.67	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQ
11763	chrY	10016006	.	T	A,C	192293.42	PASS	AC=33,35;AF=0.471,0.500;AN=
11764	chrY	10016013	.	G	A	29275.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
11765	chrY	10016035	.	G	T	431.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
11766	chrY	10016036	.	G	C	2106.88	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
11767	chrY	10016044	.	T	C	36937.67	PASS	AC=12;AF=0.500;AN=24;BaseQ
11768	chrY	10016051	.	T	C	29729.10	PASS	AC=12;AF=0.261;AN=46;BaseQ
11769	chrY	10016061	.	T	C	1150.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
11770	chrY	10016066	.	T	C	729.52	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum
11771	chrY	10016067	.	C	T	326.07	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum
11772	chrY	10016077	.	C	A,*	4670.74	PASS	AC=1,3;AF=0.045,0.136;AN=22;BaseQ
11773	chrY	10016100	.	G	C	10195.33	PASS	AC=11;AF=0.344;AN=32;BaseQ
11774	chrY	10016114	.	T	C	794.10	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum
11775	chrY	10016126	.	T	G	8777.72	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum
11776	chrY	10016127	.	T	C	1272.36	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum
11777	chrY	10016150	.	T	G	12485.64	PASS	AC=11;AF=0.196;AN=56;BaseQ
11778	chrY	10016167	.	A	G	14580.30	PASS	AC=11;AF=0.212;AN=52;BaseQ
11779	chrY	10016172	.	G	T	11702.78	PASS	AC=10;AF=0.172;AN=58;BaseQ
11780	chrY	10016173	.	T	G	15343.36	PASS	AC=11;AF=0.204;AN=54;BaseQ

11781	chrY	10016177	.	C	G	246.39	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
11782	chrY	10016194	.	A	C	18405.49	PASS	AC=11;AF=0.204;AN=54;Base
11783	chrY	10016200	.	C	T	19167.70	PASS	AC=11;AF=0.212;AN=52;Base
11784	chrY	10016204	.	G	A	56.85	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
11785	chrY	10016205	.	T	A	76.78	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
11786	chrY	10016216	.	A	G	21540.38	PASS	AC=11;AF=0.183;AN=60;Base
11787	chrY	10016220	.	A	G	110.36	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
11788	chrY	10016234	.	A	G	25255.83	PASS	AC=15;AF=0.242;AN=62;Base
11789	chrY	10016243	.	G	T	10856.96	PASS	AC=13;AF=0.197;AN=66;Base
11790	chrY	10016288	.	A	C,T	22550.09	PASS	AC=17,6;AF=0.250,0.088;AN
11791	chrY	10016298	.	G	C	1927.97	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
11792	chrY	10016309	.	C	T	7177.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11793	chrY	10016310	.	A	G	16617.95	PASS	AC=9;AF=0.129;AN=70;BaseQ
11794	chrY	10016313	.	T	A	1073.17	my_snp_filter	AC=12;AF=0.176;AN=68;Base
11795	chrY	10016319	.	G	C	6349.16	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
11796	chrY	10016335	.	G	C	22689.98	PASS	AC=14;AF=0.212;AN=66;Base
11797	chrY	10016338	.	A	G	30.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
11798	chrY	10016355	.	G	A	1058.92	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11799	chrY	10016359	.	G	A	636.66	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11800	chrY	10016369	.	T	C	10883.27	PASS	AC=11;AF=0.157;AN=70;Base
11801	chrY	10016371	.	T	G	16184.51	PASS	AC=11;AF=0.162;AN=68;Base
11802	chrY	10016386	.	T	G	14120.96	PASS	AC=12;AF=0.171;AN=70;Base
11803	chrY	10016404	.	C	T	904.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11804	chrY	10016416	.	C	T	967.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11805	chrY	10016417	.	A	G,T	7721.01	PASS	AC=9,3;AF=0.136,0.045;AN=66;BaseQ
11806	chrY	10016424	.	C	T	4472.71	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
11807	chrY	10016435	.	G	T	2620.65	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11808	chrY	10016443	.	C	T	2157.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11809	chrY	10016444	.	G	A	1429.16	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
11810	chrY	10016446	.	C	G	2059.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11811	chrY	10016449	.	C	G	11245.82	my_snp_filter	AC=14;AF=0.206;AN
11812	chrY	10016459	.	T	C	1341.33	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11813	chrY	10016471	.	A	G	17134.34	my_snp_filter	AC=20;AF=0.294;AN
11814	chrY	10016476	.	C	G	18357.44	PASS	AC=19;AF=0.288;AN=66;Base
11815	chrY	10016479	.	G	A	749.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
11816	chrY	10016480	.	A	T	59.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
11817	chrY	10016485	.	A	T	11819.29	PASS	AC=16;AF=0.229;AN=70;Base
11818	chrY	10016488	.	T	C	18635.64	PASS	AC=20;AF=0.303;AN=66;Base
11819	chrY	10016490	.	C	T	13904.36	PASS	AC=18;AF=0.281;AN=64;Base
11820	chrY	10016500	.	A	G	478.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11821	chrY	10016503	.	T	C	455.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11822	chrY	10016518	.	G	A	13619.07	PASS	AC=22;AF=0.314;AN=70;Base
11823	chrY	10016531	.	A	C	42206.56	PASS	AC=31;AF=0.470;AN=66;Base
11824	chrY	10016532	.	A	G	1317.62	my_snp_filter	AC=13;AF=0.197;AN=66;Base
11825	chrY	10016550	.	A	G	49348.60	PASS	AC=33;AF=0.485;AN=68;Base
11826	chrY	10016562	.	A	G	51961.12	PASS	AC=33;AF=0.485;AN=68;Base
11827	chrY	10016570	.	G	A	326.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11828	chrY	10016573	.	G	A	316.39	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11829	chrY	10016574	.	C	T	310.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11830	chrY	10016575	.	C	T	525.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11831	chrY	10016584	.	G	T	31845.86	PASS	AC=30;AF=0.429;AN=70;Base
11832	chrY	10016589	.	C	G	6590.05	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
11833	chrY	10016596	.	A	G	527.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11834	chrY	10016601	.	G	A	560.61	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11835	chrY	10016604	.	A	G	935.49	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11836	chrY	10016611	.	T	C	69.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11837	chrY	10016613	.	T	C	53901.87	PASS	AC=33;AF=0.471;AN=70;Base
11838	chrY	10016614	.	G	A	52670.58	PASS	AC=33;AF=0.471;AN=70;Base
11839	chrY	10016629	.	A	G	54998.60	PASS	AC=33;AF=0.471;AN=70;Base
11840	chrY	10016646	.	C	G,T,*	16740.27	PASS	AC=30,2,2;AF=0.429,0.029,
11841	chrY	10016649	.	G	A	1932.10	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11842	chrY	10016650	.	T	C	21623.94	PASS	AC=27;AF=0.386;AN=70;Base
11843	chrY	10016652	.	G	A	14971.56	PASS	AC=31;AF=0.443;AN=70;Base
11844	chrY	10016654	.	C	T	52681.48	PASS	AC=34;AF=0.500;AN=68;Base
11845	chrY	10016655	.	A	G	55507.54	PASS	AC=34;AF=0.500;AN=68;Base
11846	chrY	10016658	.	C	G	54735.73	PASS	AC=34;AF=0.515;AN=66;Base
11847	chrY	10016663	.	C	G,T	27685.31	PASS	AC=29,2;AF=0.414,0.029;AN
11848	chrY	10016664	.	G	A	703.43	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11849	chrY	10016671	.	C	G	25752.42	PASS	AC=28;AF=0.400;AN=70;Base
11850	chrY	10016674	.	G	A	1460.71	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
11851	chrY	10016680	.	A	C	2410.41	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11852	chrY	10016696	.	C	T	539.94	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
11853	chrY	10016700	.	G	A	2291.41	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11854	chrY	10016703	.	G	A	2213.65	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11855	chrY	10016707	.	G	A	8234.75	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
11856	chrY	10016724	.	T	C	465.26	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=

11857	chrY	10016727	.	C	T	1524.12	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11858	chrY	10016736	.	G	A	8715.89	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
11859	chrY	10016737	.	T	A	1090.41	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11860	chrY	10016750	.	G	C	271.75	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
11861	chrY	10016751	.	G	A	10765.86	PASS	AC=25;AF=0.357;AN=70;Base
11862	chrY	10016753	.	T	G	42022.74	PASS	AC=35;AF=0.530;AN=66;Base
11863	chrY	10016765	.	A	T	346.04	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
11864	chrY	10016766	.	T	G,A	40698.66	PASS	AC=36,3;AF=0.529,0.044;AN
11865	chrY	10016768	.	G	A	329.05	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
11866	chrY	10016774	.	T	C	312.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11867	chrY	10016785	.	G	T	66.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11868	chrY	10016799	.	G	A	57.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
11869	chrY	10016800	.	C	T	434.44	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
11870	chrY	10016801	.	C	A,G	14835.85	PASS	AC=13,23;AF=0.191,0.338;A
11871	chrY	10016832	.	C	T	150.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11872	chrY	10016836	.	T	C	2618.72	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
11873	chrY	10016839	.	G	C	20616.62	PASS	AC=36;AF=0.514;AN=70;Base
11874	chrY	10016847	.	G	A	79.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
11875	chrY	10016889	.	C	G	656.79	my_snp_filter	AC=10;AF=0.143;AN=70;Base
11876	chrY	10016916	.	G	C	6293.08	my_snp_filter	AC=15;AF=0.221;AN=68;Base
11877	chrY	10016920	.	T	C	93.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11878	chrY	10016925	.	T	C	118.41	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
11879	chrY	10017103	.	G	C	221.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11880	chrY	10017104	.	G	A	229.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11881	chrY	10017339	.	A	G	1522.37	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
11882	chrY	10017341	.	C	T	51.95	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
11883	chrY	10017342	.	A	G	1466.89	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
11884	chrY	10017354	.	T	C	1473.26	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
11885	chrY	10017355	.	G	T	1432.81	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
11886	chrY	10017362	.	T	A	2345.63	my_snp_filter	AC=6;AF=0.136;AN=44;BaseQ
11887	chrY	10017375	.	G	T	2712.10	my_snp_filter	AC=5;AF=0.147;AN=34;BaseQ
11888	chrY	10017381	.	C	A	1735.12	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
11889	chrY	10017393	.	A	G	6839.77	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
11890	chrY	10017395	.	C	T	8246.39	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQ
11891	chrY	10017416	.	G	A	10997.43	my_snp_filter	AC=6;AF=0.231;AN=
11892	chrY	10017421	.	T	A	11658.48	my_snp_filter	AC=6;AF=0.231;AN=
11893	chrY	10017427	.	A	G	12709.13	my_snp_filter	AC=8;AF=0.250;AN=
11894	chrY	10017431	.	G	A	312.37	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
11895	chrY	10017446	.	G	T	112.31	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
11896	chrY	10017449	.	G	A	16841.58	PASS	AC=8;AF=0.250;AN=32;BaseQ
11897	chrY	10017453	.	C	T	5187.59	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
11898	chrY	10017454	.	A	G	17779.13	PASS	AC=8;AF=0.286;AN=28;BaseQ
11899	chrY	10017457	.	A	G	17782.71	PASS	AC=8;AF=0.286;AN=28;BaseQ
11900	chrY	10017465	.	G	C	5249.94	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
11901	chrY	10017480	.	C	T	172.67	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
11902	chrY	10017497	.	C	T	30039.28	PASS	AC=19;AF=0.328;AN=58;Base
11903	chrY	10017502	.	C	T	29828.24	PASS	AC=19;AF=0.339;AN=56;Base
11904	chrY	10017527	.	C	T	33819.25	PASS	AC=19;AF=0.365;AN=52;Base
11905	chrY	10017545	.	A	G,T	15581.63	PASS	AC=4,15;AF=0.071,0.268;AN
11906	chrY	10017552	.	T	C	25119.24	PASS	AC=18;AF=0.290;AN=62;Base
11907	chrY	10017564	.	C	G	479.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11908	chrY	10017565	.	A	G	17139.70	PASS	AC=12;AF=0.171;AN=70;Base
11909	chrY	10017566	.	C	A	1107.37	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
11910	chrY	10017568	.	A	T	35664.05	PASS	AC=18;AF=0.346;AN=52;Base
11911	chrY	10017575	.	G	A	16118.29	PASS	AC=16;AF=0.250;AN=64;Base
11912	chrY	10017585	.	A	G	15770.32	PASS	AC=12;AF=0.171;AN=70;Base
11913	chrY	10017596	.	T	A	41885.51	PASS	AC=27;AF=0.397;AN=68;Base
11914	chrY	10017597	.	T	C	38396.51	PASS	AC=27;AF=0.397;AN=68;Base
11915	chrY	10017628	.	T	C	31844.80	PASS	AC=30;AF=0.455;AN=66;Base
11916	chrY	10017633	.	C	T	10054.94	PASS	AC=25;AF=0.357;AN=70;Base
11917	chrY	10017659	.	T	C	39283.47	PASS	AC=29;AF=0.468;AN=62;Base
11918	chrY	10017662	.	C	T	39467.43	PASS	AC=29;AF=0.468;AN=62;Base
11919	chrY	10017664	.	A	G	39393.36	PASS	AC=29;AF=0.468;AN=62;Base
11920	chrY	10017669	.	G	A	37933.30	PASS	AC=29;AF=0.468;AN=62;Base
11921	chrY	10017687	.	A	G	31732.13	PASS	AC=29;AF=0.453;AN=64;Base
11922	chrY	10017697	.	A	C	26798.40	PASS	AC=28;AF=0.438;AN=64;Base
11923	chrY	10017711	.	C	T	193.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11924	chrY	10017734	.	T	C	273.09	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
11925	chrY	10017738	.	T	C	259.43	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
11926	chrY	10017791	.	C	T	26112.04	PASS	AC=32;AF=0.485;AN=66;Base
11927	chrY	10017801	.	C	T	34523.43	PASS	AC=32;AF=0.485;AN=66;Base
11928	chrY	10017805	.	C	A	36812.42	PASS	AC=32;AF=0.485;AN=66;Base
11929	chrY	10017814	.	C	T	1373.97	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11930	chrY	10017818	.	C	A	20216.31	PASS	AC=32;AF=0.471;AN=68;Base
11931	chrY	10017821	.	C	T	45529.42	PASS	AC=32;AF=0.485;AN=66;Base
11932	chrY	10017822	.	C	A	105.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

11933	chrY	10017847	.	A	G	77649.98	PASS	AC=36;AF=0.514;AN=70;BaseQ
11934	chrY	10017852	.	G	A	234.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
11935	chrY	10017867	.	T	C	956.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
11936	chrY	10017868	.	A	G	113444.52	PASS	AC=37;AF=0.529;AN=70;BaseQ
11937	chrY	10017879	.	T	C	123617.86	PASS	AC=35;AF=0.500;AN=70;BaseQ
11938	chrY	10017880	.	G	C	7504.89	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
11939	chrY	10017891	.	T	C	12253.80	PASS	AC=32;AF=0.457;AN=70;BaseQ
11940	chrY	10017892	.	G	A	591.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
11941	chrY	10017893	.	C	A	413.20	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
11942	chrY	10017912	.	C	G	139377.27	PASS	AC=37;AF=0.529;AN=70;BaseQ
11943	chrY	10017921	.	A	G	26801.65	PASS	AC=26;AF=0.371;AN=70;BaseQ
11944	chrY	10017934	.	G	T	19390.85	PASS	AC=32;AF=0.457;AN=70;BaseQ
11945	chrY	10017939	.	C	T	27298.14	PASS	AC=26;AF=0.371;AN=70;BaseQ
11946	chrY	10017946	.	C	T	118179.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
11947	chrY	10017963	.	G	C	1800.74	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
11948	chrY	10017979	.	G	A	32567.22	PASS	AC=32;AF=0.457;AN=70;BaseQ
11949	chrY	10017981	.	C	T	2915.51	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
11950	chrY	10017984	.	C	T	31353.22	PASS	AC=32;AF=0.457;AN=70;BaseQ
11951	chrY	10017989	.	T	C	102068.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
11952	chrY	10017990	.	G	A	51.31	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
11953	chrY	10017998	.	T	A	88649.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
11954	chrY	10018005	.	G	C	78780.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
11955	chrY	10018009	.	T	G	72806.82	PASS	AC=35;AF=0.515;AN=68;BaseQ
11956	chrY	10018017	.	C	G	2537.49	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
11957	chrY	10018036	.	C	T	20494.59	PASS	AC=31;AF=0.443;AN=70;BaseQ
11958	chrY	10018042	.	T	A,C	65169.47	PASS	AC=37,5;AF=0.529,0.071;AN=
11959	chrY	10018052	.	C	T	34471.59	PASS	AC=35;AF=0.500;AN=70;BaseQ
11960	chrY	10018058	.	T	C	921.08	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
11961	chrY	10018063	.	C	A	591.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
11962	chrY	10018066	.	C	T	242.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11963	chrY	10018076	.	C	T	196.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
11964	chrY	10018083	.	T	G	45018.07	PASS	AC=40;AF=0.588;AN=68;BaseQ
11965	chrY	10018101	.	C	G	210.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
11966	chrY	10018107	.	G	T,C	44382.25	PASS	AC=37,2;AF=0.561,0.030;AN=
11967	chrY	10018109	.	T	C	34838.68	PASS	AC=39;AF=0.591;AN=66;BaseQ
11968	chrY	10018135	.	T	G	7890.45	PASS	AC=17;AF=0.425;AN=40;BaseQRankSum=
11969	chrY	10018170	.	A	G	26319.45	PASS	AC=11;AF=0.500;AN=22;BaseQ
11970	chrY	10018171	.	C	T	26086.45	PASS	AC=11;AF=0.500;AN=22;BaseQ
11971	chrY	10018173	.	T	C	25668.45	PASS	AC=11;AF=0.500;AN=22;BaseQ
11972	chrY	10018190	.	A	C	640.54	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
11973	chrY	10018194	.	C	T	109.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
11974	chrY	10018200	.	C	T	8795.06	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
11975	chrY	10018202	.	C	T	396.40	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
11976	chrY	10018211	.	C	T,*	5314.74	PASS	AC=3,7;AF=0.115,0.269;AN=26;BaseQ
11977	chrY	10018220	.	A	G	17704.57	PASS	AC=11;AF=0.423;AN=26;BaseQ
11978	chrY	10018232	.	C	T	7342.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
11979	chrY	10018233	.	A	G	16398.78	PASS	AC=9;AF=0.375;AN=24;BaseQ
11980	chrY	10018241	.	A	G	15319.69	PASS	AC=9;AF=0.346;AN=26;BaseQ
11981	chrY	10018258	.	A	G	11671.69	my_snp_filter	AC=9;AF=0.346;AN=
11982	chrY	10018265	.	G	T	255.67	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
11983	chrY	10018276	.	A	T	3684.48	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
11984	chrY	10018287	.	A	G	5855.31	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
11985	chrY	10018288	.	T	C	5767.31	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
11986	chrY	10018293	.	C	A	1291.94	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
11987	chrY	10018297	.	G	A	2610.84	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
11988	chrY	10018302	.	C	G	3798.02	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
11989	chrY	10018309	.	A	T	3406.69	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
11990	chrY	10018326	.	G	A	2944.22	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
11991	chrY	10018339	.	A	G	98.07	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
11992	chrY	10018359	.	G	A	4221.21	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
11993	chrY	10018367	.	A	G	8364.82	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
11994	chrY	10018370	.	A	C	8755.78	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
11995	chrY	10018372	.	T	C	8929.01	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
11996	chrY	10018381	.	C	T	9132.39	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
11997	chrY	10018406	.	T	C	10921.24	PASS	AC=9;AF=0.145;AN=62;BaseQ
11998	chrY	10018413	.	G	A	58.18	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
11999	chrY	10018417	.	G	A	11061.71	PASS	AC=9;AF=0.150;AN=60;BaseQ
12000	chrY	10018418	.	C	T	217.80	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
12001	chrY	10018424	.	C	T	290.91	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12002	chrY	10018431	.	A	G,C,T	11626.64	PASS	AC=3,2,9;AF=0.050,0.033,0
12003	chrY	10018449	.	T	A	2700.32	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
12004	chrY	10018498	.	A	C	7437.14	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12005	chrY	10018501	.	A	G	2230.83	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12006	chrY	10018504	.	G	A	232.42	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
12007	chrY	10018514	.	A	G	6955.53	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
12008	chrY	10018523	.	G	A,*	1256.51	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ

12009	chrY	10018524	.	T	C,*	1252.08	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
12010	chrY	10018529	.	A	G	6446.93	my_snp_filter	AC=12;AF=0.176;AN=68;Base
12011	chrY	10018530	.	T	C	350.06	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12012	chrY	10018534	.	C	A	3732.48	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12013	chrY	10018540	.	C	T	938.73	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12014	chrY	10018541	.	A	G	5674.64	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12015	chrY	10018547	.	A	T	3503.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
12016	chrY	10018549	.	T	A	396.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12017	chrY	10018551	.	T	C	5171.61	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12018	chrY	10018565	.	A	C	6002.95	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
12019	chrY	10018571	.	T	C	178.96	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
12020	chrY	10018574	.	C	T	239.38	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
12021	chrY	10018603	.	C	T	11858.73	PASS	AC=15;AF=0.242;AN=62;Base
12022	chrY	10018625	.	C	T	12747.75	PASS	AC=14;AF=0.241;AN=58;Base
12023	chrY	10018658	.	G	A	9893.68	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
12024	chrY	10018686	.	A	G	1664.22	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
12025	chrY	10018690	.	A	G	20283.25	PASS	AC=21;AF=0.328;AN=64;Base
12026	chrY	10018694	.	G	T,C	19095.77	PASS	AC=17,2;AF=0.258,0.030;AN
12027	chrY	10018700	.	A	G	15368.88	PASS	AC=13;AF=0.203;AN=64;Base
12028	chrY	10018701	.	A	C	20327.34	PASS	AC=20;AF=0.313;AN=64;Base
12029	chrY	10018710	.	C	A	15276.34	PASS	AC=14;AF=0.219;AN=64;Base
12030	chrY	10018712	.	G	A	12280.10	PASS	AC=12;AF=0.194;AN=62;Base
12031	chrY	10018719	.	C	G	325.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12032	chrY	10018746	.	G	C	17310.88	PASS	AC=30;AF=0.441;AN=68;Base
12033	chrY	10018753	.	T	C	14037.52	PASS	AC=27;AF=0.386;AN=70;Base
12034	chrY	10018758	.	T	C	802.83	my_snp_filter	AC=11;AF=0.157;AN=70;Base
12035	chrY	10018783	.	C	T	71.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12036	chrY	10018796	.	G	C	6043.92	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
12037	chrY	10018808	.	T	A	6486.33	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
12038	chrY	10018819	.	G	T	5497.79	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
12039	chrY	10018822	.	G	A	5774.67	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
12040	chrY	10018828	.	A	G	5765.10	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
12041	chrY	10018832	.	C	T	5503.01	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12042	chrY	10018836	.	T	A	5940.30	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
12043	chrY	10018852	.	C	T	5373.40	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12044	chrY	10018867	.	G	A	183.73	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
12045	chrY	10018869	.	G	A	1962.93	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
12046	chrY	10018870	.	T	A	1483.60	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
12047	chrY	10018894	.	T	C,G	25391.35	PASS	AC=18,10;AF=0.321,0.179;A
12048	chrY	10018900	.	T	G	13073.91	PASS	AC=20;AF=0.323;AN=62;Base
12049	chrY	10018905	.	C	A	8902.39	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
12050	chrY	10018925	.	C	A	1929.32	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
12051	chrY	10018928	.	G	A	1805.06	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
12052	chrY	10018930	.	C	T	1293.45	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
12053	chrY	10018931	.	G	T,C	43428.90	PASS	AC=4,32;AF=0.061,0.485;AN
12054	chrY	10018938	.	C	G	50105.81	PASS	AC=34;AF=0.515;AN=66;Base
12055	chrY	10018943	.	C	A	653.01	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
12056	chrY	10018970	.	C	T	990.08	my_snp_filter	AC=12;AF=0.171;AN=70;Base
12057	chrY	10018976	.	T	C	801.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12058	chrY	10018984	.	T	G	57149.13	PASS	AC=43;AF=0.614;AN=70;Base
12059	chrY	10019021	.	A	G	41058.19	PASS	AC=35;AF=0.530;AN=66;Base
12060	chrY	10019027	.	G	A	1690.23	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12061	chrY	10019031	.	G	A	7929.50	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
12062	chrY	10019034	.	G	A	26749.57	PASS	AC=22;AF=0.355;AN=62;Base
12063	chrY	10019054	.	G	A,*	16556.59	PASS	AC=16,2;AF=0.267,0.033;AN
12064	chrY	10019055	.	T	C,*	2794.48	PASS	AC=9,2;AF=0.132,0.029;AN=68;BaseQ
12065	chrY	10019059	.	A	G	31436.22	PASS	AC=21;AF=0.404;AN=52;Base
12066	chrY	10019060	.	A	T	4500.22	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
12067	chrY	10019063	.	G	T	21608.14	PASS	AC=15;AF=0.234;AN=64;Base
12068	chrY	10019067	.	A	G	29672.26	PASS	AC=17;AF=0.386;AN=44;Base
12069	chrY	10019072	.	G	T	422.49	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
12070	chrY	10019075	.	G	A	439.68	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
12071	chrY	10019077	.	A	G	27580.65	PASS	AC=16;AF=0.320;AN=50;Base
12072	chrY	10019079	.	T	C	18887.37	PASS	AC=12;AF=0.200;AN=60;Base
12073	chrY	10019089	.	A	C	24127.56	PASS	AC=13;AF=0.232;AN=56;Base
12074	chrY	10019090	.	G	A	289.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12075	chrY	10019100	.	T	C	6922.17	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
12076	chrY	10019102	.	T	G	24113.86	PASS	AC=19;AF=0.380;AN=50;Base
12077	chrY	10019126	.	C	T	693.20	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
12078	chrY	10019128	.	C	T	5785.10	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
12079	chrY	10019133	.	A	G	16906.13	PASS	AC=28;AF=0.424;AN=66;Base
12080	chrY	10019136	.	G	A	47.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12081	chrY	10019144	.	A	C	5337.36	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
12082	chrY	10019154	.	T	C	39281.51	PASS	AC=34;AF=0.531;AN=64;Base
12083	chrY	10019166	.	A	G	27858.22	PASS	AC=30;AF=0.469;AN=64;Base
12084	chrY	10019167	.	C	T	297.46	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=

12085	chrY	10019188	.	G	T	115.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12086	chrY	10019202	.	G	C	15362.67	PASS	AC=18;AF=0.257;AN=70;Base
12087	chrY	10019210	.	C	T	1216.14	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum
12088	chrY	10019211	.	A	G	20986.50	PASS	AC=35;AF=0.547;AN=64;Base
12089	chrY	10019226	.	G	A	34475.88	PASS	AC=22;AF=0.379;AN=58;Base
12090	chrY	10019237	.	C	A	33753.16	PASS	AC=21;AF=0.375;AN=56;Base
12091	chrY	10019251	.	T	C	1828.25	my_snp_filter	AC=18;AF=0.265;AN=68;Base
12092	chrY	10019261	.	A	G	37183.57	PASS	AC=27;AF=0.519;AN=52;Base
12093	chrY	10019273	.	G	A	27610.99	PASS	AC=20;AF=0.357;AN=56;Base
12094	chrY	10019299	.	A	C,*	2956.48	PASS	AC=9,4;AF=0.250,0.111;AN=36;BaseQ
12095	chrY	10019311	.	T	A	14769.02	PASS	AC=9;AF=0.145;AN=62;BaseQ
12096	chrY	10019321	.	T	C	35871.12	PASS	AC=23;AF=0.523;AN=44;Base
12097	chrY	10019322	.	G	A	15243.85	PASS	AC=9;AF=0.150;AN=60;BaseQ
12098	chrY	10019328	.	T	A	1747.19	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12099	chrY	10019330	.	C	T	14745.63	PASS	AC=9;AF=0.136;AN=66;BaseQ
12100	chrY	10019341	.	C	T	19381.66	PASS	AC=11;AF=0.172;AN=64;Base
12101	chrY	10019349	.	G	A	2765.06	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum
12102	chrY	10019352	.	T	A	34620.82	PASS	AC=25;AF=0.543;AN=46;Base
12103	chrY	10019362	.	C	G	272.89	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
12104	chrY	10019380	.	G	T	2668.54	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
12105	chrY	10019404	.	G	A	56.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12106	chrY	10019410	.	G	T	146.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
12107	chrY	10019420	.	A	G	3029.23	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
12108	chrY	10019437	.	G	C	5688.23	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum
12109	chrY	10019439	.	G	A	5886.29	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum
12110	chrY	10019454	.	A	G,*	6148.39	PASS	AC=1,28;AF=0.019,0.538;AN=52;Base
12111	chrY	10019460	.	G	A	131.76	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
12112	chrY	10019465	.	G	T	4413.80	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum
12113	chrY	10019467	.	G	A	1591.36	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum
12114	chrY	10019486	.	G	T	8640.55	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
12115	chrY	10019489	.	A	G	4464.75	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
12116	chrY	10019490	.	C	T	72.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12117	chrY	10019497	.	C	G	28476.42	PASS	AC=39;AF=0.609;AN=64;Base
12118	chrY	10019507	.	G	T	12954.31	PASS	AC=30;AF=0.441;AN=68;Base
12119	chrY	10019551	.	G	T	207.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12120	chrY	10019569	.	A	C	1871.61	PASS	AC=11;AF=0.688;AN=16;BaseQRankSum
12121	chrY	10019572	.	C	G	1847.61	PASS	AC=11;AF=0.688;AN=16;BaseQRankSum
12122	chrY	10019581	.	T	C	475.70	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
12123	chrY	10019691	.	G	A	30.28	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
12124	chrY	10019692	.	A	G	99.55	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
12125	chrY	10019705	.	T	G	305.88	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
12126	chrY	10019723	.	T	C	353.13	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
12127	chrY	10019725	.	C	T	38.73	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
12128	chrY	10019732	.	T	C	427.14	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
12129	chrY	10019733	.	G	A	137.01	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
12130	chrY	10019768	.	T	C	634.32	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
12131	chrY	10019775	.	T	G	366.07	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
12132	chrY	10019778	.	T	C	453.05	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
12133	chrY	10019808	.	G	C	674.93	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
12134	chrY	10019817	.	C	T	7612.05	PASS	AC=15;AF=0.278;AN=54;BaseQRankSum
12135	chrY	10019818	.	A	G	13125.20	PASS	AC=47;AF=0.870;AN=54;Base
12136	chrY	10019826	.	C	T	8774.64	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum
12137	chrY	10019828	.	C	T	2377.29	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum
12138	chrY	10019832	.	G	T	1952.82	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
12139	chrY	10019845	.	G	T	4400.91	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12140	chrY	10019852	.	T	C	8613.63	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
12141	chrY	10019854	.	G	A	11407.54	PASS	AC=14;AF=0.280;AN=50;Base
12142	chrY	10019866	.	T	C	11851.35	PASS	AC=16;AF=0.348;AN=46;Base
12143	chrY	10019880	.	C	T	1294.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12144	chrY	10019889	.	G	A	4259.74	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12145	chrY	10019890	.	C	T	40.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12146	chrY	10019892	.	T	C,G	17030.17	PASS	AC=31,10;AF=0.443,0.143;A
12147	chrY	10019893	.	G	A	8152.36	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
12148	chrY	10019894	.	G	A	12275.53	PASS	AC=19;AF=0.271;AN=70;Base
12149	chrY	10019898	.	C	A	12109.40	PASS	AC=19;AF=0.279;AN=68;Base
12150	chrY	10019899	.	T	A	4342.83	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
12151	chrY	10019910	.	G	A	2725.22	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
12152	chrY	10019914	.	T	C	11059.16	PASS	AC=19;AF=0.279;AN=68;Base
12153	chrY	10019915	.	G	A	438.87	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12154	chrY	10019924	.	A	C	2447.74	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12155	chrY	10019935	.	C	T	671.74	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
12156	chrY	10019941	.	C	G,T	12623.44	PASS	AC=17,18;AF=0.274,0.290;A
12157	chrY	10019950	.	T	A	16390.73	PASS	AC=31;AF=0.500;AN=62;Base
12158	chrY	10019953	.	G	T	797.10	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12159	chrY	10019954	.	G	A	1807.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
12160	chrY	10019957	.	G	A	15562.96	PASS	AC=31;AF=0.517;AN=60;Base

12161	chrY	10019966	.	A	G	44.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12162	chrY	10019967	.	G	A	5305.31	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
12163	chrY	10019975	.	T	C	1660.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12164	chrY	10019983	.	C	T	2115.66	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum
12165	chrY	10019999	.	G	A	1754.38	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
12166	chrY	10020000	.	C	G	3927.32	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum
12167	chrY	10020005	.	C	G	6107.86	PASS	AC=21;AF=0.375;AN=56;BaseQRankSum
12168	chrY	10020007	.	G	A	1720.99	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
12169	chrY	10020014	.	T	C	1336.51	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
12170	chrY	10020015	.	G	A	1553	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
12171	chrY	10020022	.	C	A	1476.49	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
12172	chrY	10020029	.	T	C	3504.32	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum
12173	chrY	10020030	.	G	C	3501.35	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum
12174	chrY	10020039	.	A	G	130.82	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
12175	chrY	10020054	.	T	A	79.88	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
12176	chrY	10020062	.	T	C	713.85	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
12177	chrY	10020093	.	A	C	4700.65	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum
12178	chrY	10020095	.	A	G	43.73	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
12179	chrY	10020096	.	T	C	874.71	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
12180	chrY	10020104	.	T	C	3018.33	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum
12181	chrY	10020105	.	G	A	4986.63	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum
12182	chrY	10020113	.	A	G	5111.10	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum
12183	chrY	10020132	.	G	A	915.03	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
12184	chrY	10020148	.	A	G	2895.93	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
12185	chrY	10020152	.	T	A	349.71	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
12186	chrY	10020153	.	G	A	350.01	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
12187	chrY	10020160	.	G	T	329.61	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
12188	chrY	10020162	.	C	T	204.68	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
12189	chrY	10020169	.	C	T	111.30	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
12190	chrY	10020171	.	C	A	344.56	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
12191	chrY	10020187	.	C	T	37.22	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
12192	chrY	10020188	.	G	A	1017.38	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
12193	chrY	10020198	.	T	G	2605.11	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
12194	chrY	10020205	.	G	A	69.57	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
12195	chrY	10020213	.	G	A	230.02	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
12196	chrY	10020216	.	C	T	184.07	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
12197	chrY	10020217	.	A	G	188.33	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
12198	chrY	10020224	.	A	G	570.63	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
12199	chrY	10020230	.	A	C	803.73	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
12200	chrY	10020237	.	A	G	809.43	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
12201	chrY	10020239	.	G	T	773.83	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
12202	chrY	10020244	.	T	C	604.11	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
12203	chrY	10020247	.	T	C	524.25	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
12204	chrY	10020248	.	G	T	86.91	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
12205	chrY	10020264	.	A	C	388.78	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
12206	chrY	10020274	.	C	T	308.01	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
12207	chrY	10020280	.	A	G	230.77	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
12208	chrY	10020281	.	C	T	752.51	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
12209	chrY	10020282	.	G	A	230.77	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
12210	chrY	10020286	.	A	G	192.09	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
12211	chrY	10020289	.	T	C	192.07	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
12212	chrY	10020292	.	A	G	234.23	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
12213	chrY	10020295	.	G	T	189.08	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
12214	chrY	10020296	.	C	G	186.08	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
12215	chrY	10020318	.	G	C	269.47	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
12216	chrY	10020701	.	T	C	219.50	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12217	chrY	10020702	.	C	T	224.93	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12218	chrY	10020710	.	C	A	72.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12219	chrY	10020716	.	A	G	412.34	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
12220	chrY	10020733	.	C	T	1351.51	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
12221	chrY	10020742	.	C	G	121.09	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
12222	chrY	10020743	.	G	A	1436.36	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
12223	chrY	10020785	.	A	C	665.90	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
12224	chrY	10020792	.	C	T,*	1757.51	PASS	AC=1,2;AF=0.022,0.043;AN=46;BaseQ
12225	chrY	10020801	.	G	C,T	1889.04	PASS	AC=3,1;AF=0.068,0.023;AN=44;BaseQ
12226	chrY	10020819	.	C	G	659.55	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
12227	chrY	10020829	.	C	A	76.48	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
12228	chrY	10020836	.	A	T	2375.88	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
12229	chrY	10020867	.	G	C	1382.98	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
12230	chrY	10020877	.	C	G	640.15	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
12231	chrY	10020899	.	T	A,G	4814.85	PASS	AC=3,2;AF=0.167,0.111;AN=18;BaseQ
12232	chrY	10020917	.	G	C	585.13	PASS	AC=7;AF=0.103;AN=68;DP=1322;FS=5.
12233	chrY	10020919	.	T	C	4863.42	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
12234	chrY	10020927	.	C	G	2790.18	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
12235	chrY	10020951	.	G	C	967.82	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12236	chrY	10020953	.	C	T	56.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

12237	chrY	10020955	.	G	T	1065.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12238	chrY	10020961	.	A	C	5100.71	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
12239	chrY	10020964	.	A	T	142.48	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
12240	chrY	10020990	.	G	C	361.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12241	chrY	10020993	.	T	C	321.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12242	chrY	10020994	.	T	A	271.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12243	chrY	10020996	.	C	T	6709.59	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQ
12244	chrY	10021012	.	T	A	4277.62	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
12245	chrY	10021026	.	T	C	4513.79	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
12246	chrY	10021032	.	G	C	1745.71	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
12247	chrY	10021039	.	T	C	569.27	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12248	chrY	10021066	.	C	T	5847.69	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
12249	chrY	10021083	.	A	T	10357.73	my_snp_filter	AC=15;AF=0.313;AN=
12250	chrY	10021092	.	G	A	6500.53	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
12251	chrY	10021104	.	T	A	6038.03	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
12252	chrY	10021122	.	C	G	7559.51	my_snp_filter	AC=15;AF=0.288;AN=52;BaseQ
12253	chrY	10021132	.	C	G	66.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12254	chrY	10021155	.	C	T	4103.39	my_snp_filter	AC=10;AF=0.179;AN=56;BaseQ
12255	chrY	10021190	.	T	C	339.16	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
12256	chrY	10021195	.	C	T	341.86	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
12257	chrY	10021200	.	C	T	331.12	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
12258	chrY	10021202	.	T	C	176.10	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
12259	chrY	10021208	.	T	C	173.97	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
12260	chrY	10021217	.	A	C	853.41	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12261	chrY	10021218	.	T	C	255.07	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
12262	chrY	10021222	.	C	T	184.18	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
12263	chrY	10021227	.	C	G	167.99	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
12264	chrY	10021246	.	T	C	330.68	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
12265	chrY	10021250	.	A	T	375.19	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
12266	chrY	10021258	.	C	T	531.30	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
12267	chrY	10021259	.	G	A	1457.74	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
12268	chrY	10021264	.	T	G	120.66	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
12269	chrY	10021272	.	T	G,*	789.25	PASS	AC=3,1;AF=0.167,0.056;AN=18;BaseQ
12270	chrY	10021283	.	C	T	355.35	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
12271	chrY	10021285	.	C	T	667.46	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
12272	chrY	10021291	.	G	A	624.77	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
12273	chrY	10021301	.	C	T	476.36	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12274	chrY	10021321	.	C	G	476.97	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
12275	chrY	10021386	.	C	T	723.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=0
12276	chrY	10021449	.	C	T	1055.17	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
12277	chrY	10021456	.	G	A	4853	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
12278	chrY	10021465	.	G	A	1152.12	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
12279	chrY	10021498	.	T	C	6581.27	PASS	AC=5;AF=0.357;AN=14;BaseQRankSum=
12280	chrY	10021503	.	T	C	1464.55	PASS	AC=5;AF=0.313;AN=16;BaseQRankSum=
12281	chrY	10021504	.	A	G	6690.55	PASS	AC=5;AF=0.313;AN=16;BaseQRankSum=
12282	chrY	10021514	.	C	T	1523.74	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
12283	chrY	10021521	.	C	T	1640.52	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
12284	chrY	10021528	.	C	T	36.01	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
12285	chrY	10021536	.	G	A	2965.45	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12286	chrY	10021560	.	C	G	1137.24	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
12287	chrY	10021602	.	C	T	305.32	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
12288	chrY	10021604	.	C	G	416.89	my_snp_filter	AC=5;AF=0.139;AN=36;BaseQ
12289	chrY	10021610	.	C	G	365.45	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQ
12290	chrY	10021612	.	G	C	6501.95	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
12291	chrY	10021614	.	T	G	431.31	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQ
12292	chrY	10021622	.	A	G	6763.50	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
12293	chrY	10021628	.	C	A	2162.69	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
12294	chrY	10021636	.	G	C	2367.60	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
12295	chrY	10021667	.	A	T,*	1547.89	PASS	AC=5,1;AF=0.125,0.025;AN=40;BaseQ
12296	chrY	10021696	.	G	C,*	2301.52	PASS	AC=6,1;AF=0.115,0.019;AN=52;BaseQ
12297	chrY	10021701	.	T	C	1350.30	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
12298	chrY	10021704	.	T	C	1947.54	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
12299	chrY	10021710	.	C	T	32.09	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
12300	chrY	10021770	.	C	T	1445.81	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12301	chrY	10021786	.	C	T	1140.36	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
12302	chrY	10021787	.	C	T	15264.95	PASS	AC=11;AF=0.162;AN=68;BaseQ
12303	chrY	10021788	.	G	T	5900.60	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12304	chrY	10021792	.	T	C	13744.77	PASS	AC=11;AF=0.162;AN=68;BaseQ
12305	chrY	10021793	.	G	A	773.87	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
12306	chrY	10021796	.	C	G	12872.47	PASS	AC=10;AF=0.143;AN=70;BaseQ
12307	chrY	10021806	.	C	A	893.98	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12308	chrY	10021808	.	T	C	11286.01	PASS	AC=9;AF=0.132;AN=68;BaseQ
12309	chrY	10021809	.	C	A	423.05	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
12310	chrY	10021815	.	A	C	10812.14	PASS	AC=9;AF=0.141;AN=64;BaseQ
12311	chrY	10021829	.	A	G	10116.44	PASS	AC=9;AF=0.145;AN=62;BaseQ
12312	chrY	10021845	.	C	A	1269.56	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=

12313	chrY	10021864	.	C	T	113.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12314	chrY	10021867	.	G	T	6852.22	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
12315	chrY	10021877	.	A	G	9726.52	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
12316	chrY	10021893	.	C	T	9601.83	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
12317	chrY	10021901	.	C	T	4011.87	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12318	chrY	10021903	.	G	A	36.32	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12319	chrY	10021905	.	A	G	428.27	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12320	chrY	10021910	.	G	A	30.51	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
12321	chrY	10021918	.	A	G	8169.96	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
12322	chrY	10021920	.	C	G	548.63	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
12323	chrY	10021922	.	T	C	10025.89	PASS	AC=9;AF=0.167;AN=54;BaseQ
12324	chrY	10021938	.	G	T	786.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12325	chrY	10021947	.	C	A	13689	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
12326	chrY	10021951	.	T	G	11655.50	PASS	AC=9;AF=0.161;AN=56;BaseQ
12327	chrY	10021958	.	T	C	12625.59	PASS	AC=9;AF=0.155;AN=58;BaseQ
12328	chrY	10021965	.	T	C	1972.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12329	chrY	10021973	.	A	G	18756.64	PASS	AC=9;AF=0.237;AN=38;BaseQ
12330	chrY	10021975	.	G	C	19462.02	PASS	AC=9;AF=0.237;AN=38;BaseQ
12331	chrY	10021985	.	T	C	19881.29	PASS	AC=9;AF=0.265;AN=34;BaseQ
12332	chrY	10021987	.	T	C	688.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12333	chrY	10022008	.	G	A	47.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12334	chrY	10022014	.	G	A	48791.01	PASS	AC=31;AF=0.443;AN=70;BaseQ
12335	chrY	10022027	.	A	G	824.30	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
12336	chrY	10022033	.	A	G	45531.48	PASS	AC=30;AF=0.441;AN=68;BaseQ
12337	chrY	10022039	.	A	G	36652.38	PASS	AC=30;AF=0.441;AN=68;BaseQ
12338	chrY	10022051	.	C	T	109.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12339	chrY	10022057	.	T	G	16858.93	PASS	AC=26;AF=0.371;AN=70;BaseQ
12340	chrY	10022059	.	A	C	45034.73	PASS	AC=32;AF=0.471;AN=68;BaseQ
12341	chrY	10022071	.	G	A	869	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
12342	chrY	10022076	.	C	A	430.54	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
12343	chrY	10022080	.	G	A	25938.25	PASS	AC=27;AF=0.409;AN=66;BaseQ
12344	chrY	10022098	.	G	T	737.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12345	chrY	10022101	.	G	C	756.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12346	chrY	10022108	.	C	T	6946.01	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
12347	chrY	10022128	.	C	G	11066.66	PASS	AC=14;AF=0.292;AN=48;BaseQ
12348	chrY	10022129	.	A	G,T	18808.89	PASS	AC=14,3;AF=0.292,0.063;AN
12349	chrY	10022132	.	A	G	22495.61	PASS	AC=15;AF=0.300;AN=50;BaseQ
12350	chrY	10022136	.	C	A	2237.27	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
12351	chrY	10022138	.	C	G	2470.94	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
12352	chrY	10022140	.	A	G	8847.06	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=
12353	chrY	10022156	.	T	C	18431.97	PASS	AC=9;AF=0.250;AN=36;BaseQ
12354	chrY	10022163	.	G	A	1714.49	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
12355	chrY	10022168	.	G	A	10528.31	PASS	AC=9;AF=0.225;AN=40;BaseQ
12356	chrY	10022171	.	C	T	10386.57	PASS	AC=9;AF=0.214;AN=42;BaseQ
12357	chrY	10022185	.	C	T	1609.94	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
12358	chrY	10022188	.	C	A	9213.56	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
12359	chrY	10022203	.	C	A	10931.49	PASS	AC=9;AF=0.265;AN=34;BaseQ
12360	chrY	10022206	.	G	T	2652.11	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
12361	chrY	10022219	.	A	G	1794.72	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
12362	chrY	10022228	.	A	G,T	20511.79	PASS	AC=9,1;AF=0.346,0.038;AN=
12363	chrY	10022241	.	A	T	147.12	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
12364	chrY	10022245	.	A	G	17348.17	PASS	AC=11;AF=0.344;AN=32;BaseQ
12365	chrY	10022249	.	G	C	17355.33	PASS	AC=9;AF=0.300;AN=30;BaseQ
12366	chrY	10022250	.	C	A	23440.20	PASS	AC=9;AF=0.300;AN=30;BaseQ
12367	chrY	10022256	.	T	G	23330.19	PASS	AC=9;AF=0.321;AN=28;BaseQ
12368	chrY	10022267	.	C	T	2651.97	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
12369	chrY	10022276	.	G	A	1741.28	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
12370	chrY	10022287	.	C	T	1417.62	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
12371	chrY	10022294	.	T	A	3671.89	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
12372	chrY	10022298	.	G	T	15149.44	PASS	AC=9;AF=0.205;AN=44;BaseQ
12373	chrY	10022309	.	T	C	3572.32	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
12374	chrY	10022310	.	C	G	4189.68	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
12375	chrY	10022340	.	A	G	345.99	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
12376	chrY	10022348	.	C	A	42.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12377	chrY	10022350	.	G	C	821.04	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
12378	chrY	10022375	.	G	A	3764.91	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
12379	chrY	10022384	.	C	T	4791.85	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
12380	chrY	10022385	.	A	G	4781.81	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
12381	chrY	10022394	.	T	C	8867.19	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
12382	chrY	10022398	.	T	C	8613.03	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
12383	chrY	10022407	.	T	C	3379.31	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12384	chrY	10022421	.	T	G	4735.45	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
12385	chrY	10022422	.	G	C	2879.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12386	chrY	10022428	.	C	T	724.60	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12387	chrY	10022429	.	A	G	5427.45	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
12388	chrY	10022433	.	G	A	786.34	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=

12389	chrY	10022452	.	C	T	2064.91	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
12390	chrY	10022468	.	G	C	1244.05	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
12391	chrY	10022493	.	G	A	698.28	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
12392	chrY	10022506	.	T	A	112.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12393	chrY	10022507	.	A	C,T	2955.22	PASS	AC=13,3;AF=0.197,0.045;AN=66;Base
12394	chrY	10022511	.	G	C	3400.88	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
12395	chrY	10022522	.	G	C	1083.73	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12396	chrY	10022538	.	G	A	37.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
12397	chrY	10022550	.	G	A	1035.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
12398	chrY	10022560	.	T	C	5076.78	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
12399	chrY	10022578	.	T	C	155.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12400	chrY	10022579	.	G	C	456.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12401	chrY	10022583	.	G	T	987.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12402	chrY	10022604	.	T	A	523.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12403	chrY	10022608	.	T	C	59.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12404	chrY	10022613	.	T	C	923.39	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12405	chrY	10022630	.	G	A	353.39	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
12406	chrY	10022636	.	A	G	209.08	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
12407	chrY	10022677	.	T	G	515.89	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
12408	chrY	10022680	.	C	T	516.02	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
12409	chrY	10022705	.	C	G	796	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
12410	chrY	10022726	.	A	C	947.54	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
12411	chrY	10022747	.	A	T	1062.25	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
12412	chrY	10022759	.	G	T	1110.94	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
12413	chrY	10022769	.	A	G	1416.07	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
12414	chrY	10022779	.	A	C	1545.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12415	chrY	10022808	.	C	A	2855.09	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
12416	chrY	10022809	.	C	A	2845.91	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
12417	chrY	10022821	.	A	G	2838.43	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
12418	chrY	10022823	.	A	T	2626.41	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
12419	chrY	10022857	.	T	G	1657.95	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
12420	chrY	10022862	.	C	T	485.27	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
12421	chrY	10022885	.	T	C	3735.89	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12422	chrY	10022886	.	G	C	3732.23	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12423	chrY	10022900	.	G	A	658.75	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
12424	chrY	10022909	.	C	T	1831.65	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
12425	chrY	10022917	.	C	A	1338.45	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
12426	chrY	10022937	.	G	A	3961.09	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
12427	chrY	10022945	.	C	A	4685.14	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
12428	chrY	10022959	.	C	T	5202.99	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
12429	chrY	10022961	.	T	C	12548.97	PASS	AC=25;AF=0.379;AN=66;BaseQ
12430	chrY	10022971	.	C	A	6115.87	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
12431	chrY	10022976	.	A	G	15652.14	PASS	AC=26;AF=0.394;AN=66;BaseQ
12432	chrY	10022983	.	C	A	16406.31	PASS	AC=27;AF=0.409;AN=66;BaseQ
12433	chrY	10022988	.	T	G,C	11546.73	PASS	AC=15,16;AF=0.227,0.242;AN=66
12434	chrY	10023012	.	T	C	18323.46	PASS	AC=30;AF=0.455;AN=66;BaseQ
12435	chrY	10023017	.	G	T	4368.88	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
12436	chrY	10023062	.	T	A	9361.02	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
12437	chrY	10023088	.	G	A	2701.77	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
12438	chrY	10023120	.	T	C	10457.38	PASS	AC=15;AF=0.242;AN=62;BaseQ
12439	chrY	10023123	.	G	C,T	8162.83	PASS	AC=4,10;AF=0.065,0.161;AN=62;Base
12440	chrY	10023142	.	A	G	8645.41	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
12441	chrY	10023166	.	T	A	6777.17	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
12442	chrY	10023181	.	A	C,G	5084.17	PASS	AC=13,2;AF=0.197,0.030;AN=66;Base
12443	chrY	10023227	.	T	C	6005.77	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
12444	chrY	10023238	.	T	G	2831.79	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
12445	chrY	10023252	.	T	C	1031.64	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
12446	chrY	10023262	.	C	G	1147.44	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12447	chrY	10023268	.	C	A	4465.44	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
12448	chrY	10023269	.	G	A	377.76	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
12449	chrY	10023287	.	A	G	12051.46	PASS	AC=17;AF=0.283;AN=60;BaseQ
12450	chrY	10023305	.	G	A	8331.14	PASS	AC=15;AF=0.278;AN=54;BaseQRankSum=
12451	chrY	10023315	.	G	A	17632.21	PASS	AC=19;AF=0.380;AN=50;BaseQ
12452	chrY	10023319	.	A	G	18190.20	PASS	AC=19;AF=0.380;AN=50;BaseQ
12453	chrY	10023338	.	T	A	2172.56	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
12454	chrY	10023344	.	C	T	1144.19	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
12455	chrY	10023396	.	G	A	455.48	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
12456	chrY	10023410	.	G	A	344.89	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
12457	chrY	10023418	.	C	T	242.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12458	chrY	10023430	.	G	A	126.63	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
12459	chrY	10023444	.	G	A	31.68	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
12460	chrY	10023585	.	T	G	398.29	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
12461	chrY	10023622	.	G	C	296.08	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
12462	chrY	10023634	.	C	A	35.71	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
12463	chrY	10023638	.	T	C	515.78	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
12464	chrY	10023652	.	C	A	312.19	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=

12465	chrY	10023664	.	A	G	189.07	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
12466	chrY	10023695	.	A	T	819.35	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
12467	chrY	10023701	.	C	T	1776.41	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
12468	chrY	10023749	.	G	C	63.71	PASS	AC=2;AF=0.250;AN=8;DP=493;FS=0.00
12469	chrY	10023753	.	T	C	63.01	PASS	AC=2;AF=0.167;AN=12;DP=463;FS=0.0
12470	chrY	10023755	.	G	A	63.05	PASS	AC=2;AF=0.125;AN=16;DP=460;FS=0.0
12471	chrY	10023926	.	A	G	935.09	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
12472	chrY	10023949	.	C	T	293.12	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
12473	chrY	10023952	.	G	C	265.53	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
12474	chrY	10023980	.	C	A	2460.13	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
12475	chrY	10023990	.	A	G	2870.13	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
12476	chrY	10023995	.	T	C	309.29	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
12477	chrY	10023996	.	G	A	309.29	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
12478	chrY	10024003	.	T	C	331.55	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
12479	chrY	10024046	.	C	T	569.25	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
12480	chrY	10024047	.	G	A	4391.45	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
12481	chrY	10024135	.	T	C	2814.36	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
12482	chrY	10024136	.	G	T	221.03	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
12483	chrY	10024143	.	C	T	387.58	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
12484	chrY	10024145	.	C	G	3036.98	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
12485	chrY	10024149	.	T	C	3970.98	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
12486	chrY	10024150	.	G	A	3967.98	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
12487	chrY	10024162	.	T	A	3856.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
12488	chrY	10024164	.	T	A	365.63	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
12489	chrY	10024173	.	T	C	379.69	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
12490	chrY	10024188	.	C	T	1221.16	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
12491	chrY	10024193	.	T	C,*	1116.97	PASS	AC=4,2;AF=0.182,0.091;AN=22;BaseQ
12492	chrY	10024195	.	T	C,*	1075.97	PASS	AC=4,2;AF=0.182,0.091;AN=22;BaseQ
12493	chrY	10024197	.	T	C,*	1098.82	PASS	AC=4,2;AF=0.182,0.091;AN=22;BaseQ
12494	chrY	10024201	.	C	G	2778.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
12495	chrY	10024205	.	T	G	1251.13	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
12496	chrY	10024262	.	C	G	131.26	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
12497	chrY	10024278	.	C	G	41.06	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
12498	chrY	10024333	.	T	C	1736.10	PASS	AC=2;AF=0.500;AN=4;BaseQRankSum=0
12499	chrY	10024353	.	C	T	1824.71	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
12500	chrY	10024398	.	G	T	2478.27	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
12501	chrY	10024412	.	T	C	1328.37	PASS	AC=6;AF=0.250;AN=24;DP=518;FS=0.0
12502	chrY	10024443	.	T	C	1607.71	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12503	chrY	10024452	.	T	A	3054.26	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
12504	chrY	10024473	.	G	T	3200.90	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
12505	chrY	10024481	.	C	T	3340.91	PASS	AC=3;AF=0.214;AN=14;BaseQRankSum=
12506	chrY	10024489	.	G	T	1228.42	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12507	chrY	10024500	.	C	T	1148.42	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12508	chrY	10024519	.	T	A	1111.07	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12509	chrY	10024533	.	T	C	1161.43	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
12510	chrY	10024562	.	C	G	567.66	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
12511	chrY	10024564	.	C	G	5816.99	PASS	AC=11;AF=0.324;AN=34;BaseQRankSum=
12512	chrY	10024566	.	C	G	109.76	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
12513	chrY	10024568	.	C	G	5856.38	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
12514	chrY	10024570	.	C	G	110.72	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
12515	chrY	10024574	.	G	C,*	4270.49	PASS	AC=1,9;AF=0.025,0.225;AN=40;BaseQ
12516	chrY	10024582	.	C	T	6620.42	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
12517	chrY	10024596	.	C	T	8180.12	PASS	AC=12;AF=0.286;AN=42;BaseQRankSum=
12518	chrY	10024668	.	C	T	17692.37	PASS	AC=13;AF=0.197;AN=66;BaseQ
12519	chrY	10024674	.	T	C	17480.10	PASS	AC=13;AF=0.203;AN=64;BaseQ
12520	chrY	10024678	.	T	C	17660.75	PASS	AC=13;AF=0.197;AN=66;BaseQ
12521	chrY	10024698	.	A	G	16887.34	PASS	AC=22;AF=0.324;AN=68;BaseQ
12522	chrY	10024718	.	C	G	5103.16	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12523	chrY	10024732	.	C	G	5485.26	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12524	chrY	10024736	.	T	C,*	8813.72	PASS	AC=9,22;AF=0.129,0.314;AN=70;Base
12525	chrY	10024740	.	T	C,*	8540.69	PASS	AC=9,22;AF=0.129,0.314;AN=70;Base
12526	chrY	10024744	.	C	T	4992.10	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12527	chrY	10024745	.	A	G	4932.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12528	chrY	10024752	.	C	G	19140.96	PASS	AC=32;AF=0.457;AN=70;BaseQ
12529	chrY	10024758	.	T	C	20334.66	PASS	AC=32;AF=0.457;AN=70;BaseQ
12530	chrY	10024764	.	C	T	69.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12531	chrY	10024769	.	G	A	21139.09	PASS	AC=33;AF=0.471;AN=70;BaseQ
12532	chrY	10024824	.	T	C	9081.36	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
12533	chrY	10024826	.	G	A	88.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12534	chrY	10024841	.	T	A	54.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12535	chrY	10024851	.	C	T	1808.99	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
12536	chrY	10024857	.	A	T	7864.41	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
12537	chrY	10024870	.	A	C	4330.01	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
12538	chrY	10024878	.	G	A	1098.92	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12539	chrY	10024881	.	C	A	7182.68	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
12540	chrY	10024882	.	A	G	4051.20	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=

12541	chrY	10024890	.	T	C	4785.82	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
12542	chrY	10024912	.	A	T	17188.42	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
12543	chrY	10024965	.	C	T	12284.10	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
12544	chrY	10024966	.	C	G,A	8494.97	PASS	AC=9,5;AF=0.141,0.078;AN=64;BaseQRankSum=
12545	chrY	10024974	.	C	T	1882.26	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
12546	chrY	10024975	.	A	G	13227.91	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
12547	chrY	10024995	.	T	C	12538.84	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
12548	chrY	10024996	.	A	C	12540.12	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
12549	chrY	10025029	.	C	T	89.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
12550	chrY	10025037	.	A	C,T	6037.67	PASS	AC=13,16;AF=0.197,0.242;AN=66;BaseQRankSum=
12551	chrY	10025052	.	A	T	300.28	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
12552	chrY	10025058	.	C	T	288.52	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
12553	chrY	10025067	.	A	G	19929.79	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
12554	chrY	10025072	.	C	G	452.02	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12555	chrY	10025078	.	G	C	18699.35	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
12556	chrY	10025081	.	C	T	481.79	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12557	chrY	10025083	.	G	A	494.69	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12558	chrY	10025112	.	C	T	10881.12	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
12559	chrY	10025135	.	G	A	1950.05	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12560	chrY	10025140	.	C	T	14736.55	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum=
12561	chrY	10025156	.	C	T	11034.17	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
12562	chrY	10025161	.	G	C	2386.96	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
12563	chrY	10025176	.	G	A	14080.18	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=
12564	chrY	10025187	.	C	G	2830.11	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
12565	chrY	10025203	.	C	T	3140.93	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum=
12566	chrY	10025212	.	G	T	111.68	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
12567	chrY	10025216	.	A	T	68.59	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
12568	chrY	10025236	.	C	T	3085.54	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
12569	chrY	10025246	.	C	A	1638.82	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
12570	chrY	10025263	.	G	A	3100.98	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
12571	chrY	10025277	.	T	C	2925.17	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
12572	chrY	10025295	.	T	A	2720.09	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
12573	chrY	10025322	.	T	A	2674.71	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
12574	chrY	10025327	.	C	G	2521.45	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
12575	chrY	10025342	.	T	C	2156.01	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
12576	chrY	10025344	.	C	G	2163.05	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
12577	chrY	10025351	.	T	C	1874.77	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
12578	chrY	10025381	.	C	T	1231.83	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
12579	chrY	10025382	.	A	G	1272.03	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12580	chrY	10025385	.	G	T	785.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12581	chrY	10025388	.	T	G	1515.14	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12582	chrY	10025393	.	C	A	1106.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12583	chrY	10025403	.	C	T	1136.96	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12584	chrY	10025408	.	T	C	1128.37	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12585	chrY	10025415	.	T	C	782.98	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
12586	chrY	10025443	.	G	T	1426.13	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
12587	chrY	10025444	.	G	C	1469.69	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
12588	chrY	10025447	.	C	T	1544.80	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
12589	chrY	10025454	.	A	C	1405.60	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
12590	chrY	10025470	.	G	A	1767.29	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
12591	chrY	10025473	.	C	T	844.96	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
12592	chrY	10025474	.	T	G	1810.21	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
12593	chrY	10025478	.	G	T	2004.47	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
12594	chrY	10025499	.	G	A	2304.67	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
12595	chrY	10025515	.	T	C	2664.39	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
12596	chrY	10025525	.	C	T	2740.12	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
12597	chrY	10025538	.	A	G	2875.58	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
12598	chrY	10025546	.	G	A	2816.34	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
12599	chrY	10025566	.	G	C	2895.55	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
12600	chrY	10025572	.	G	A	2843.44	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
12601	chrY	10025577	.	A	G	2613.86	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
12602	chrY	10025580	.	G	A	2695.85	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
12603	chrY	10025620	.	C	A	938.20	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
12604	chrY	10025645	.	C	T	34.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
12605	chrY	10025648	.	G	A	850.37	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
12606	chrY	10025649	.	T	C	34.55	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
12607	chrY	10025650	.	G	A	34.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
12608	chrY	10025652	.	G	T	817.38	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
12609	chrY	10025660	.	C	T	557.59	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
12610	chrY	10025669	.	A	C	141.42	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
12611	chrY	10025670	.	C	G	141.16	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
12612	chrY	10025676	.	T	C	150.81	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
12613	chrY	10025831	.	A	G	441.17	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
12614	chrY	10025836	.	T	C	436.33	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
12615	chrY	10025848	.	G	C	89.19	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
12616	chrY	10025860	.	A	T	83.38	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=

12617	chrY	10025862	.	G	T	83.81	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
12618	chrY	10025864	.	T	C	534.42	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
12619	chrY	10025865	.	G	A	823.12	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
12620	chrY	10025908	.	A	G	887.15	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
12621	chrY	10025912	.	C	T	5434.14	PASS	AC=41;AF=0.603;AN=68;BaseQRankSum=
12622	chrY	10025922	.	G	A	913.93	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQ
12623	chrY	10025953	.	G	A	156.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12624	chrY	10025967	.	A	C	83.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12625	chrY	10025979	.	C	G	70.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12626	chrY	10025986	.	C	T	73.22	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
12627	chrY	10025987	.	A	G	80.77	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
12628	chrY	10026020	.	C	T	658.20	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
12629	chrY	10026027	.	C	G	113.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12630	chrY	10026028	.	A	G,T	242.49	my_snp_filter	AC=4,3;AF=0.057,0.043;AN=
12631	chrY	10026035	.	T	G	1903.82	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
12632	chrY	10026039	.	C	T	109.45	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
12633	chrY	10026049	.	G	T	53.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12634	chrY	10026050	.	T	A,G	1770.42	PASS	AC=6,16;AF=0.091,0.242;AN=66;BaseQ
12635	chrY	10026051	.	C	T	97.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12636	chrY	10026087	.	T	C	1288.29	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
12637	chrY	10026093	.	A	T,C	1102.91	PASS	AC=4,8;AF=0.065,0.129;AN=62;BaseQ
12638	chrY	10026098	.	C	A	1169.22	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
12639	chrY	10026109	.	G	A	896.58	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
12640	chrY	10026117	.	G	A	230.05	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
12641	chrY	10026122	.	G	C	861.76	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
12642	chrY	10026126	.	G	A	820.60	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
12643	chrY	10026155	.	C	G	109.34	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
12644	chrY	10026158	.	C	T	117.37	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
12645	chrY	10026165	.	T	C	95.76	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
12646	chrY	10026177	.	A	C	43.24	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
12647	chrY	10026183	.	T	A	43.07	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
12648	chrY	10026187	.	C	A	42.39	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
12649	chrY	10026340	.	T	A	36.13	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
12650	chrY	10026344	.	G	A	36.67	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
12651	chrY	10026349	.	A	T	62.12	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
12652	chrY	10026376	.	A	T	299.73	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
12653	chrY	10026393	.	A	C	488.77	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12654	chrY	10026402	.	A	G	578.41	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12655	chrY	10026425	.	T	A	614.59	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12656	chrY	10026454	.	G	A	561.81	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12657	chrY	10026480	.	A	G	424.12	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
12658	chrY	10026496	.	T	C	269.58	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
12659	chrY	10026512	.	T	G	126.76	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
12660	chrY	10026516	.	G	A	98.97	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
12661	chrY	10026605	.	C	T	43.06	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
12662	chrY	10026637	.	C	A	440.18	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
12663	chrY	10026645	.	A	G	440.21	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
12664	chrY	10026654	.	C	A	469.36	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
12665	chrY	10026685	.	G	A	405.64	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
12666	chrY	10026730	.	G	A	630.26	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
12667	chrY	10026737	.	C	T	31.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12668	chrY	10026747	.	G	A	511.01	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
12669	chrY	10026755	.	G	T	263.25	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
12670	chrY	10026758	.	T	C	228.52	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
12671	chrY	10026763	.	A	G	230.63	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
12672	chrY	10026766	.	G	A	186.19	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
12673	chrY	10027021	.	G	C,*	303.98	PASS	AC=2,2;AF=0.100,0.100;AN=20;BaseQ
12674	chrY	10027040	.	C	T	58.91	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12675	chrY	10027041	.	A	G	63.22	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12676	chrY	10027046	.	C	T	451	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12677	chrY	10027048	.	C	T	456.96	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12678	chrY	10027049	.	A	G	63.26	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12679	chrY	10027056	.	G	C	440.76	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12680	chrY	10027057	.	G	A	440.76	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12681	chrY	10027100	.	A	C	899.34	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
12682	chrY	10027110	.	T	C	931.81	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
12683	chrY	10027111	.	G	A	931.81	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
12684	chrY	10027136	.	G	T	170.78	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
12685	chrY	10027152	.	A	G	774.19	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
12686	chrY	10027166	.	T	C	728.89	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12687	chrY	10027167	.	A	G	232.09	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
12688	chrY	10027188	.	T	G	588.77	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
12689	chrY	10027206	.	T	C	686.09	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
12690	chrY	10027256	.	G	T	1132.46	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
12691	chrY	10027261	.	C	T	1281.21	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
12692	chrY	10027262	.	C	T	1278.25	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=

12693	chrY	10027271	.	C	T	1236.47	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
12694	chrY	10027303	.	A	C	1113.90	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12695	chrY	10027315	.	A	C	1184.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12696	chrY	10027332	.	G	A	1086.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
12697	chrY	10027395	.	A	T	508.70	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
12698	chrY	10027399	.	G	A	90.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12699	chrY	10027402	.	T	C	366.11	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12700	chrY	10027407	.	A	C	338.92	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12701	chrY	10027473	.	C	A	842.25	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12702	chrY	10027474	.	C	G	172.91	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12703	chrY	10027481	.	A	C	257.97	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
12704	chrY	10027483	.	A	G	31.14	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12705	chrY	10027488	.	T	G	528.06	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12706	chrY	10027490	.	A	T	244.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12707	chrY	10027493	.	T	C	1103.49	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
12708	chrY	10027519	.	C	T	1713.44	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
12709	chrY	10027547	.	A	C	739.30	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12710	chrY	10027558	.	G	T	52.22	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12711	chrY	10027569	.	G	A	893.43	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12712	chrY	10027571	.	A	T	448.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12713	chrY	10027580	.	T	A	1911.69	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
12714	chrY	10027581	.	T	C	30.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12715	chrY	10027605	.	C	T	264.40	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
12716	chrY	10027609	.	G	A	305.18	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
12717	chrY	10028000	.	A	G	317.47	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
12718	chrY	10028002	.	A	G	347.11	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
12719	chrY	10028003	.	T	C	357.89	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
12720	chrY	10028008	.	T	C	361.40	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
12721	chrY	10028033	.	T	C	397.02	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
12722	chrY	10028053	.	G	A	36.31	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
12723	chrY	10028084	.	A	T	894	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
12724	chrY	10028085	.	T	C	892.35	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
12725	chrY	10028103	.	G	A	1540.15	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
12726	chrY	10028126	.	T	C	36.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
12727	chrY	10028141	.	G	A	578.87	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12728	chrY	10028169	.	T	C	5601.37	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
12729	chrY	10028170	.	G	A	1102.22	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
12730	chrY	10028171	.	T	A	121.91	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12731	chrY	10028173	.	G	A	124.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12732	chrY	10028176	.	G	A	2207.92	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
12733	chrY	10028178	.	C	G	859.26	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
12734	chrY	10028180	.	A	G	5445.81	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
12735	chrY	10028188	.	T	C	679.64	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12736	chrY	10028194	.	C	A	1814.40	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
12737	chrY	10028195	.	A	G	47.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12738	chrY	10028201	.	C	T	1857.36	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
12739	chrY	10028205	.	G	A	286.69	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
12740	chrY	10028206	.	C	G	542.83	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12741	chrY	10028213	.	T	A,C	1087.15	PASS	AC=8,10;AF=0.114,0.143;AN=70;BaseQ
12742	chrY	10028215	.	A	G	533.10	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12743	chrY	10028217	.	T	A	211.43	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
12744	chrY	10028227	.	T	C	1463.55	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
12745	chrY	10028228	.	G	A	1458.39	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
12746	chrY	10028248	.	G	T	371.26	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12747	chrY	10028259	.	G	A	289.77	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
12748	chrY	10028262	.	A	C	78.11	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12749	chrY	10028266	.	G	C	496.76	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
12750	chrY	10028284	.	G	A	107.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12751	chrY	10028363	.	C	T	123	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12752	chrY	10028370	.	A	T	119.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12753	chrY	10028411	.	G	C	173.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12754	chrY	10028419	.	A	T	173.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12755	chrY	10028705	.	A	G	155.15	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12756	chrY	10028717	.	A	T	130.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12757	chrY	10028739	.	T	C	121.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12758	chrY	10028743	.	G	T	121.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12759	chrY	10028764	.	A	C	662.87	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
12760	chrY	10028769	.	G	C	418.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12761	chrY	10028771	.	T	A,C	796.69	PASS	AC=9,3;AF=0.129,0.043;AN=70;BaseQ
12762	chrY	10028772	.	G	A	134.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12763	chrY	10028777	.	C	T	127.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12764	chrY	10028780	.	T	C	889.74	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12765	chrY	10028783	.	T	C	883.72	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12766	chrY	10028786	.	T	G	115.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12767	chrY	10028798	.	G	A	127.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12768	chrY	10028843	.	G	A	121.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ

12769	chrY	10028848	.	G	T	103.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12770	chrY	10028856	.	G	A	95.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12771	chrY	10028871	.	A	C	49.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12772	chrY	10028892	.	G	T	50.38	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12773	chrY	10028893	.	G	T	52.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12774	chrY	10029015	.	G	T	36.49	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
12775	chrY	10029032	.	A	C	157.28	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
12776	chrY	10029064	.	G	A	7288.06	my_snp_filter	AC=10;AF=0.147;AN=68;Base
12777	chrY	10029066	.	A	G	1450.70	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
12778	chrY	10029075	.	T	G	1610.39	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
12779	chrY	10029091	.	G	C	5541.21	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
12780	chrY	10029101	.	T	C	12167.27	my_snp_filter	AC=15;AF=0.242;AN
12781	chrY	10029138	.	C	T	3395.97	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
12782	chrY	10029155	.	A	T	3478.25	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12783	chrY	10029163	.	A	G	13729.76	PASS	AC=35;AF=0.500;AN=70;Base
12784	chrY	10029174	.	G	T	2658.16	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12785	chrY	10029185	.	G	A	224.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12786	chrY	10029199	.	G	T	72.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12787	chrY	10029205	.	A	G	13126.73	PASS	AC=31;AF=0.443;AN=70;Base
12788	chrY	10029207	.	A	T	1331.03	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
12789	chrY	10029218	.	G	A	15211.52	PASS	AC=31;AF=0.443;AN=70;Base
12790	chrY	10029220	.	G	T	339.09	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
12791	chrY	10029228	.	G	A	20807.61	PASS	AC=33;AF=0.500;AN=66;Base
12792	chrY	10029237	.	A	G	220.66	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12793	chrY	10029240	.	C	T	1601.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
12794	chrY	10029249	.	G	T	5351.48	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
12795	chrY	10029272	.	T	C	2736.71	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
12796	chrY	10029287	.	C	T,*	28093.48	PASS	AC=2,27;AF=0.029,0.386;AN
12797	chrY	10029300	.	C	T	262.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12798	chrY	10029301	.	G	A	3575.72	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
12799	chrY	10029308	.	A	C,T	5751.90	PASS	AC=15,18;AF=0.214,0.257;AN=70;Bas
12800	chrY	10029322	.	T	C	53988.99	PASS	AC=37;AF=0.529;AN=70;Base
12801	chrY	10029333	.	A	G	4741.33	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
12802	chrY	10029334	.	C	G	125.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12803	chrY	10029340	.	T	C	31497.72	PASS	AC=35;AF=0.500;AN=70;Base
12804	chrY	10029347	.	C	T	4561.21	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
12805	chrY	10029390	.	T	A	20522.72	PASS	AC=35;AF=0.500;AN=70;Base
12806	chrY	10029393	.	A	C	11987.72	PASS	AC=35;AF=0.500;AN=70;Base
12807	chrY	10029396	.	T	C	2765.20	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
12808	chrY	10029408	.	T	C	333.05	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
12809	chrY	10029410	.	T	A	322.23	my_snp_filter	AC=11;AF=0.157;AN=70;Base
12810	chrY	10029422	.	A	C	9012.39	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
12811	chrY	10029426	.	A	C	7096.43	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
12812	chrY	10029433	.	T	C	5509.53	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
12813	chrY	10029443	.	A	G	163.57	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12814	chrY	10029466	.	T	G	64.35	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12815	chrY	10029541	.	G	C	256.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12816	chrY	10029571	.	A	T	126.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12817	chrY	10029581	.	C	A	136.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
12818	chrY	10029583	.	T	C	6582.40	my_snp_filter	AC=12;AF=0.171;AN=70;Base
12819	chrY	10029584	.	G	A	6567.99	my_snp_filter	AC=11;AF=0.157;AN=70;Base
12820	chrY	10029602	.	G	A	126.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
12821	chrY	10029610	.	G	A	7330.50	my_snp_filter	AC=17;AF=0.243;AN=70;Base
12822	chrY	10029616	.	G	T	8109.10	my_snp_filter	AC=21;AF=0.309;AN=68;Base
12823	chrY	10029623	.	C	T	8426.89	my_snp_filter	AC=21;AF=0.309;AN=68;Base
12824	chrY	10029629	.	A	G	4004.44	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
12825	chrY	10029649	.	C	G	1408.19	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
12826	chrY	10029655	.	G	A	1008.75	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
12827	chrY	10029695	.	G	T	104.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12828	chrY	10029702	.	G	A	768.27	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12829	chrY	10029711	.	A	C	1265.01	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
12830	chrY	10029720	.	A	C	830	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
12831	chrY	10029725	.	G	C	505.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12832	chrY	10029731	.	A	T	385.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12833	chrY	10029740	.	G	T	318.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12834	chrY	10029743	.	A	G	33.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
12835	chrY	10029760	.	A	G	112.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12836	chrY	10029770	.	G	A	35.95	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12837	chrY	10029772	.	T	A	35.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
12838	chrY	10029820	.	A	G	92.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12839	chrY	10029824	.	T	G	94.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12840	chrY	10029827	.	G	A	94.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12841	chrY	10029828	.	G	A	95.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
12842	chrY	10029843	.	A	C	65.93	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
12843	chrY	10029864	.	G	A	195.55	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12844	chrY	10029868	.	C	G	192.96	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

12845	chrY	10029880	.	G	C	206.56	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12846	chrY	10029886	.	C	T	208.72	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12847	chrY	10029889	.	G	T	215.06	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12848	chrY	10030031	.	G	A	256.21	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
12849	chrY	10030070	.	A	G	313.64	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
12850	chrY	10030298	.	A	G	1162.78	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
12851	chrY	10030323	.	G	C	224.14	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12852	chrY	10030326	.	C	G	225.13	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
12853	chrY	10030400	.	T	A	90.99	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
12854	chrY	10030407	.	A	G	95.67	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
12855	chrY	10030446	.	T	A	91.19	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
12856	chrY	10030460	.	A	C	93.79	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
12857	chrY	10030629	.	T	C	634.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
12858	chrY	10030641	.	T	G	1911.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
12859	chrY	10030648	.	G	A	767.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
12860	chrY	10030681	.	A	G	886.13	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
12861	chrY	10030692	.	G	C	3659.68	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
12862	chrY	10030706	.	A	G	2554.78	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
12863	chrY	10030711	.	C	T	515.80	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
12864	chrY	10030720	.	A	C	508.14	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
12865	chrY	10030747	.	A	G	515.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
12866	chrY	10030841	.	A	G	39.33	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
12867	chrY	10030854	.	G	A	79.68	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
12868	chrY	10030895	.	C	G	506.30	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
12869	chrY	10030904	.	G	C	499.93	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
12870	chrY	10030952	.	A	T	1980.89	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
12871	chrY	10030953	.	C	T	1980.89	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
12872	chrY	10030973	.	G	A	2037.46	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
12873	chrY	10030992	.	T	A	1752.29	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
12874	chrY	10030994	.	T	A	1716.29	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
12875	chrY	10031027	.	G	A	210.86	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
12876	chrY	10031044	.	A	C	219.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
12877	chrY	10031055	.	G	A	119.29	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
12878	chrY	10031176	.	G	A	774.95	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12879	chrY	10031178	.	A	C	819.06	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12880	chrY	10031191	.	T	C	1189.23	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
12881	chrY	10031203	.	T	A	870.93	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
12882	chrY	10031212	.	T	A	991.06	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
12883	chrY	10031215	.	T	A	1116.55	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
12884	chrY	10031218	.	T	A	1111.19	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
12885	chrY	10031222	.	T	A	1149.38	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
12886	chrY	10031238	.	C	A	3904.30	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
12887	chrY	10031256	.	A	G	4056.62	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
12888	chrY	10031267	.	A	T	1897.94	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
12889	chrY	10031271	.	C	A	1691.10	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12890	chrY	10031283	.	A	G	4035.56	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
12891	chrY	10031304	.	T	A	2429.56	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
12892	chrY	10031327	.	G	A	1940.36	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
12893	chrY	10031334	.	C	A	115.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12894	chrY	10031347	.	C	T	293.54	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12895	chrY	10031349	.	A	G	1632.67	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
12896	chrY	10031352	.	G	C	1627.08	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
12897	chrY	10031354	.	A	G	1629.06	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
12898	chrY	10031390	.	T	C	12340.60	PASS	AC=16;AF=0.242;AN=66;BaseQ
12899	chrY	10031391	.	G	A	12506.43	PASS	AC=16;AF=0.242;AN=66;BaseQ
12900	chrY	10031408	.	C	A	5524.22	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
12901	chrY	10031409	.	T	G	125.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12902	chrY	10031411	.	A	G	5589.27	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12903	chrY	10031414	.	T	G,C	13710.79	PASS	AC=15,5;AF=0.227,0.076;AN
12904	chrY	10031423	.	T	C	14413.93	PASS	AC=20;AF=0.303;AN=66;BaseQ
12905	chrY	10031433	.	T	A	388.74	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
12906	chrY	10031434	.	A	G	5979.41	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12907	chrY	10031435	.	G	A	81.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12908	chrY	10031442	.	A	G	5063.57	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
12909	chrY	10031451	.	T	C	428.69	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12910	chrY	10031452	.	G	T	477.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
12911	chrY	10031456	.	G	A	13432.01	PASS	AC=13;AF=0.186;AN=70;BaseQ
12912	chrY	10031460	.	T	C	5481.76	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
12913	chrY	10031463	.	T	C	394.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
12914	chrY	10031466	.	C	T	6651.35	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
12915	chrY	10031488	.	T	C	14929.69	PASS	AC=15;AF=0.250;AN=60;BaseQ
12916	chrY	10031489	.	G	A	14169.44	PASS	AC=13;AF=0.217;AN=60;BaseQ
12917	chrY	10031490	.	G	A	132.28	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
12918	chrY	10031496	.	G	C	15354.68	PASS	AC=15;AF=0.250;AN=60;BaseQ
12919	chrY	10031506	.	T	C	5898.75	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
12920	chrY	10031509	.	G	A	5584.96	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=

12921	chrY	10031515	.	G	A	13966.60	PASS	AC=17;AF=0.258;AN=66;BaseQ
12922	chrY	10031526	.	C	A	58.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12923	chrY	10031534	.	G	A	225.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
12924	chrY	10031542	.	C	A	20339.30	PASS	AC=30;AF=0.441;AN=68;BaseQ
12925	chrY	10031544	.	T	C	260.49	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
12926	chrY	10031546	.	G	A	258.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
12927	chrY	10031548	.	T	C	9407.37	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
12928	chrY	10031549	.	G	A,C	9666.04	PASS	AC=25,2;AF=0.357,0.029;AN=70;BaseQ
12929	chrY	10031565	.	T	C	26493.35	PASS	AC=31;AF=0.456;AN=68;BaseQ
12930	chrY	10031572	.	G	A	26780.19	PASS	AC=31;AF=0.456;AN=68;BaseQ
12931	chrY	10031582	.	G	A	29327.14	PASS	AC=31;AF=0.456;AN=68;BaseQ
12932	chrY	10031595	.	G	A	31708.17	PASS	AC=32;AF=0.471;AN=68;BaseQ
12933	chrY	10031596	.	T	C	29935.83	PASS	AC=32;AF=0.471;AN=68;BaseQ
12934	chrY	10031597	.	G	A	30102.59	PASS	AC=32;AF=0.471;AN=68;BaseQ
12935	chrY	10031599	.	C	A	194.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
12936	chrY	10031601	.	T	C	32142.71	PASS	AC=32;AF=0.471;AN=68;BaseQ
12937	chrY	10031602	.	T	A	1799.59	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
12938	chrY	10031612	.	C	T	634.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
12939	chrY	10031630	.	T	C	23322.78	PASS	AC=35;AF=0.500;AN=70;BaseQ
12940	chrY	10031640	.	C	A	7518.96	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
12941	chrY	10031659	.	A	G	37171.07	PASS	AC=37;AF=0.529;AN=70;BaseQ
12942	chrY	10031666	.	A	C	7333.49	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
12943	chrY	10031667	.	G	C	35951.76	PASS	AC=36;AF=0.514;AN=70;BaseQ
12944	chrY	10031671	.	C	T	3721.01	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
12945	chrY	10031673	.	C	T	3696.30	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
12946	chrY	10031687	.	G	T	3199.93	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
12947	chrY	10031693	.	A	G	32008.76	PASS	AC=35;AF=0.500;AN=70;BaseQ
12948	chrY	10031695	.	A	G	35371.76	PASS	AC=35;AF=0.500;AN=70;BaseQ
12949	chrY	10031714	.	C	T	100.77	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
12950	chrY	10031719	.	A	C	31266.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
12951	chrY	10031720	.	G	A	22734.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
12952	chrY	10031735	.	T	A	3184.56	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
12953	chrY	10031741	.	C	A	16342.68	PASS	AC=30;AF=0.429;AN=70;BaseQ
12954	chrY	10031761	.	G	C	57.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
12955	chrY	10031763	.	T	C	717.96	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
12956	chrY	10031768	.	T	A	13814.50	PASS	AC=23;AF=0.397;AN=58;BaseQ
12957	chrY	10031770	.	A	G	13817.36	PASS	AC=23;AF=0.397;AN=58;BaseQ
12958	chrY	10031786	.	C	T	49.82	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
12959	chrY	10031793	.	G	C	15376	PASS	AC=25;AF=0.431;AN=58;BaseQRankSum=
12960	chrY	10031818	.	C	A	11665.35	PASS	AC=13;AF=0.217;AN=60;BaseQ
12961	chrY	10031823	.	A	G	11231.59	PASS	AC=13;AF=0.210;AN=62;BaseQ
12962	chrY	10031827	.	T	A,C	7913	PASS	AC=9,4;AF=0.145,0.065;AN=62;BaseQ
12963	chrY	10031838	.	T	C	9785.31	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
12964	chrY	10031842	.	G	A	9323.34	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
12965	chrY	10031844	.	T	C	9273.06	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
12966	chrY	10031859	.	G	A	2406.43	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
12967	chrY	10031864	.	T	C	4539.29	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
12968	chrY	10031865	.	G	A	872.69	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
12969	chrY	10031876	.	A	G	7965.22	my_snp_filter	AC=10;AF=0.185;AN=54;BaseQ
12970	chrY	10031880	.	C	G	7861.94	my_snp_filter	AC=10;AF=0.192;AN=52;BaseQ
12971	chrY	10031909	.	G	T	2126.69	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
12972	chrY	10031912	.	G	T	10319.50	my_snp_filter	AC=17;AF=0.304;AN=
12973	chrY	10031917	.	T	C	10649.72	my_snp_filter	AC=17;AF=0.304;AN=
12974	chrY	10031918	.	G	T	5610.75	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum=
12975	chrY	10031930	.	C	G	10860.49	my_snp_filter	AC=18;AF=0.321;AN=
12976	chrY	10031933	.	C	A	2511.91	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
12977	chrY	10031934	.	A	G	10773.75	my_snp_filter	AC=18;AF=0.310;AN=
12978	chrY	10031970	.	C	T	13075.60	PASS	AC=33;AF=0.500;AN=66;BaseQ
12979	chrY	10031982	.	A	C	12802.40	PASS	AC=32;AF=0.471;AN=68;BaseQ
12980	chrY	10032028	.	T	A	4532.44	my_snp_filter	AC=18;AF=0.290;AN=62;BaseQ
12981	chrY	10032040	.	C	T	1364.80	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
12982	chrY	10032041	.	A	G	3161.11	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
12983	chrY	10032050	.	A	T	2026.84	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
12984	chrY	10032096	.	G	C	509.79	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
12985	chrY	10032097	.	G	A	112.84	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
12986	chrY	10032103	.	G	A	687.71	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
12987	chrY	10032107	.	T	C	736.43	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
12988	chrY	10032108	.	G	A	736.43	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
12989	chrY	10032115	.	C	T	545.82	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
12990	chrY	10032116	.	G	A	160.02	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
12991	chrY	10032125	.	T	A	852.38	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
12992	chrY	10032129	.	G	C	867.11	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
12993	chrY	10032141	.	C	A	112.18	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
12994	chrY	10032142	.	A	G	113.03	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
12995	chrY	10032153	.	T	C	532.05	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
12996	chrY	10032180	.	C	A	1555.21	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=

12997	chrY	10032184	.	G	A	1630.21	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
12998	chrY	10032185	.	T	C	1094.66	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
12999	chrY	10032199	.	C	T	1796.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
13000	chrY	10032213	.	T	C	273.73	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
13001	chrY	10032221	.	A	G	1535.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
13002	chrY	10032228	.	A	G	2003.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
13003	chrY	10032248	.	T	G	2265.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
13004	chrY	10032266	.	A	C	1829.44	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
13005	chrY	10032271	.	C	T	482.18	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
13006	chrY	10032289	.	T	C	1126.58	PASS	AC=7;AF=0.500;AN=14;BaseQRankSum=
13007	chrY	10032290	.	G	A	529.32	PASS	AC=4;AF=0.286;AN=14;BaseQRankSum=
13008	chrY	10032295	.	C	T	577.34	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
13009	chrY	10032311	.	G	T	133.37	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
13010	chrY	10032317	.	A	C	1687.28	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
13011	chrY	10032322	.	A	G	1576.81	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
13012	chrY	10032329	.	C	T	658.02	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
13013	chrY	10032333	.	C	T	697.66	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
13014	chrY	10032334	.	G	A	911.63	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
13015	chrY	10032338	.	G	A	1752.24	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
13016	chrY	10032343	.	T	C	1758.63	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
13017	chrY	10032356	.	T	A	773.41	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
13018	chrY	10032380	.	A	T	2770.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13019	chrY	10032382	.	C	A	3038.34	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13020	chrY	10032385	.	C	A	3094.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13021	chrY	10032391	.	A	T	33.19	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
13022	chrY	10032402	.	T	C	4112.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13023	chrY	10032416	.	C	G	4379.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13024	chrY	10032440	.	C	A	1674.99	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
13025	chrY	10032441	.	A	G	3688.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
13026	chrY	10032448	.	C	T	1797.65	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
13027	chrY	10032472	.	C	T	2077.04	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
13028	chrY	10032480	.	T	A	5600.83	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
13029	chrY	10032496	.	C	G	3116.97	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
13030	chrY	10032519	.	A	T	2786.39	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
13031	chrY	10032524	.	C	T	2841.40	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
13032	chrY	10032525	.	G	A	3145.64	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
13033	chrY	10032526	.	C	A	3140.64	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
13034	chrY	10032535	.	A	G	2976.31	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=
13035	chrY	10032547	.	C	T	6446.29	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
13036	chrY	10032577	.	T	A	8038.77	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
13037	chrY	10032578	.	T	A	8035.66	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
13038	chrY	10032598	.	C	T	3526.42	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
13039	chrY	10032599	.	T	G	7826.16	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
13040	chrY	10032611	.	T	C	7244.73	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
13041	chrY	10032614	.	G	A	3501.47	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
13042	chrY	10032621	.	A	G	2708.39	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
13043	chrY	10032624	.	C	T	3244.42	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
13044	chrY	10032630	.	G	A	3209.92	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
13045	chrY	10032656	.	G	T	2662.64	my_snp_filter	AC=11;AF=0.172;AN=64;Base
13046	chrY	10032658	.	G	T	1903.04	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13047	chrY	10032669	.	C	T	5022.01	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
13048	chrY	10032671	.	C	T	673.32	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
13049	chrY	10032673	.	C	T	2530.75	my_snp_filter	AC=11;AF=0.167;AN=66;Base
13050	chrY	10032674	.	G	A	317.59	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13051	chrY	10032701	.	T	A	282.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13052	chrY	10032712	.	G	T	1549.11	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
13053	chrY	10032716	.	A	G	1419.58	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
13054	chrY	10032720	.	C	G	1348.34	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
13055	chrY	10032721	.	G	T	1308.75	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
13056	chrY	10032724	.	G	C	1218.94	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
13057	chrY	10032749	.	A	G	733.48	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
13058	chrY	10032807	.	G	T	689.78	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
13059	chrY	10032810	.	A	G	706.75	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
13060	chrY	10032823	.	G	A	756.74	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
13061	chrY	10032840	.	G	A	806.43	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
13062	chrY	10032873	.	G	A	677.10	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13063	chrY	10032878	.	C	T	552.33	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13064	chrY	10032879	.	T	C	549.97	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13065	chrY	10032886	.	C	G	504.19	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
13066	chrY	10032890	.	A	G	413.75	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
13067	chrY	10032894	.	C	G	422.48	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13068	chrY	10032904	.	C	T	375.35	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
13069	chrY	10032932	.	A	G	109.16	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
13070	chrY	10033070	.	T	C	58.41	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
13071	chrY	10033072	.	G	T	57.01	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
13072	chrY	10033080	.	C	T	51.66	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=

13073	chrY	10033081	.	T	G	60.76	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
13074	chrY	10033085	.	T	C	65.94	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
13075	chrY	10033096	.	T	G	139.22	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13076	chrY	10033106	.	C	T	35.04	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
13077	chrY	10033116	.	C	T	172.38	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
13078	chrY	10033122	.	G	A	213.48	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
13079	chrY	10033128	.	C	T	113.08	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13080	chrY	10033134	.	G	A	45.61	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
13081	chrY	10033137	.	G	A	302.34	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
13082	chrY	10033163	.	G	A	109.52	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
13083	chrY	10033171	.	G	T	64.44	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13084	chrY	10033180	.	T	A	60.91	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
13085	chrY	10033192	.	T	C	176.36	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13086	chrY	10033211	.	G	C	303.71	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
13087	chrY	10033216	.	G	A	55.58	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
13088	chrY	10033222	.	A	G	45.84	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
13089	chrY	10033229	.	G	A	189.27	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
13090	chrY	10033235	.	C	A	301.64	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
13091	chrY	10033240	.	C	G	265.52	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
13092	chrY	10033248	.	C	A	145.42	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13093	chrY	10033249	.	G	A	256.08	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
13094	chrY	10033251	.	G	C	257.41	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
13095	chrY	10033256	.	C	T	92.40	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
13096	chrY	10033257	.	G	A	257.05	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
13097	chrY	10033261	.	T	C	139.25	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
13098	chrY	10033264	.	T	C	201.53	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
13099	chrY	10033269	.	A	C	137.28	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13100	chrY	10033272	.	C	T	135.74	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
13101	chrY	10033283	.	T	C	113.50	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
13102	chrY	10033286	.	G	A	107.54	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
13103	chrY	10033288	.	C	A	109.31	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
13104	chrY	10033296	.	G	A	108.59	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
13105	chrY	10033300	.	C	G	65.75	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
13106	chrY	10033413	.	A	G	112.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13107	chrY	10033429	.	G	C	588.65	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
13108	chrY	10033439	.	A	G	718.70	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
13109	chrY	10033441	.	G	C	664.96	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
13110	chrY	10033450	.	A	C	865.91	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
13111	chrY	10033461	.	G	C	996.87	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
13112	chrY	10033462	.	G	A	484.68	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
13113	chrY	10033466	.	C	T	899.09	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13114	chrY	10033471	.	G	T	1035.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13115	chrY	10033502	.	G	A	462.14	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
13116	chrY	10033508	.	A	G	119.91	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
13117	chrY	10033512	.	C	T	3149.82	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
13118	chrY	10033513	.	G	A,C	1198.32	PASS	AC=11,2;AF=0.162,0.029;AN=68;BaseQRankSum=
13119	chrY	10033519	.	C	T	974.04	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
13120	chrY	10033523	.	C	G	1087.61	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
13121	chrY	10033526	.	A	G	1689.17	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
13122	chrY	10033539	.	G	A	703.18	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
13123	chrY	10033561	.	G	T	891.40	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
13124	chrY	10033562	.	G	T	986.65	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
13125	chrY	10033570	.	T	G	1973.61	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
13126	chrY	10033571	.	G	C	1930.56	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
13127	chrY	10033581	.	A	C	645.72	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
13128	chrY	10033583	.	A	T,C	1161.50	PASS	AC=6,5;AF=0.111,0.093;AN=54;BaseQRankSum=
13129	chrY	10033589	.	C	T	424.71	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
13130	chrY	10033590	.	C	A	372.38	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
13131	chrY	10033602	.	T	C	233.64	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
13132	chrY	10033604	.	G	A	291.83	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
13133	chrY	10033608	.	C	T	158.52	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
13134	chrY	10033625	.	A	T	65.67	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
13135	chrY	10033626	.	T	C	65.02	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
13136	chrY	10033752	.	G	C	140.04	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
13137	chrY	10033761	.	G	C	164.68	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
13138	chrY	10033769	.	T	C	164.70	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
13139	chrY	10033774	.	C	G	172.68	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
13140	chrY	10033778	.	T	C	258.40	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
13141	chrY	10033784	.	T	C	305.27	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
13142	chrY	10033791	.	G	A	79.75	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
13143	chrY	10033795	.	C	A	68.78	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
13144	chrY	10033801	.	G	T	391.67	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
13145	chrY	10033832	.	A	G	143.25	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
13146	chrY	10033835	.	G	A	902.16	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13147	chrY	10033840	.	C	G,*	4008.47	PASS	AC=19,3;AF=0.317,0.050;AN=60;BaseQRankSum=
13148	chrY	10033841	.	C	T,*	3976.19	PASS	AC=19,3;AF=0.317,0.050;AN=60;BaseQRankSum=

13149	chrY	10033855	.	G	A,*	368.23	PASS	AC=1,6;AF=0.017,0.100;AN=60;BaseQ
13150	chrY	10033862	.	A	G	4719.31	PASS	AC=21;AF=0.350;AN=60;BaseQRankSum
13151	chrY	10033864	.	C	A	158.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
13152	chrY	10033866	.	G	A	4482.36	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
13153	chrY	10033870	.	G	T	4396.16	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
13154	chrY	10033882	.	G	A	4494.92	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
13155	chrY	10033888	.	T	C	4674.70	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum
13156	chrY	10033890	.	A	C	351.24	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
13157	chrY	10033896	.	G	T	2063.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13158	chrY	10033899	.	G	A	1391.96	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13159	chrY	10033906	.	C	T	3847.32	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum
13160	chrY	10033907	.	G	A	850.78	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum
13161	chrY	10033923	.	A	C	568.94	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13162	chrY	10033924	.	G	A	564.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13163	chrY	10033932	.	T	C	4396.54	PASS	AC=22;AF=0.407;AN=54;BaseQRankSum
13164	chrY	10033933	.	G	T	607.01	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
13165	chrY	10033943	.	T	A	663.61	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13166	chrY	10033947	.	G	A	697.03	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
13167	chrY	10033953	.	C	T	1690.56	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
13168	chrY	10033954	.	A	C	743.81	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
13169	chrY	10033962	.	T	A	6452.12	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum
13170	chrY	10033970	.	G	A	544.87	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
13171	chrY	10033974	.	C	T	3531.29	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
13172	chrY	10033975	.	G	C	1459.97	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
13173	chrY	10033976	.	G	T	3562.55	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
13174	chrY	10033985	.	G	A	3678.84	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
13175	chrY	10033992	.	A	G	3112.83	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
13176	chrY	10033995	.	T	C	5468.62	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum
13177	chrY	10033999	.	G	A	5589.64	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum
13178	chrY	10034003	.	T	C	5404.85	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
13179	chrY	10034006	.	G	C	4082.01	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum
13180	chrY	10034011	.	C	G	5306.93	PASS	AC=16;AF=0.308;AN=52;BaseQRankSum
13181	chrY	10034012	.	T	C	4985.73	PASS	AC=16;AF=0.308;AN=52;BaseQRankSum
13182	chrY	10034016	.	G	A	307.07	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
13183	chrY	10034017	.	A	C	5732.82	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum
13184	chrY	10034018	.	G	A	40.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13185	chrY	10034025	.	C	T	266.57	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
13186	chrY	10034029	.	C	A	3941.07	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum
13187	chrY	10034045	.	G	A	51.03	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
13188	chrY	10034056	.	T	C	5366.25	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum
13189	chrY	10034059	.	C	T	5388.75	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum
13190	chrY	10034076	.	G	A	5106.25	my_snp_filter	AC=16;AF=0.276;AN=58;BaseQ
13191	chrY	10034104	.	G	A	3061.39	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
13192	chrY	10034127	.	A	C	2754.09	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
13193	chrY	10034134	.	C	G	2715.12	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
13194	chrY	10034139	.	C	T	2648.26	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
13195	chrY	10034149	.	T	C	2369.14	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
13196	chrY	10034150	.	G	C	2241.99	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
13197	chrY	10034153	.	T	G	2202.72	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
13198	chrY	10034164	.	A	C	1669.17	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
13199	chrY	10034166	.	C	A,G	1607.53	my_snp_filter	AC=3,3;AF=0.054,0.054;AN=
13200	chrY	10034181	.	G	A	1237.39	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
13201	chrY	10034195	.	T	C	1104.69	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13202	chrY	10034197	.	A	C	978.77	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
13203	chrY	10034199	.	C	T	931.10	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13204	chrY	10034208	.	C	G	803.25	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
13205	chrY	10034228	.	C	T	479.35	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13206	chrY	10034229	.	C	G	480.48	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13207	chrY	10034244	.	C	A	403.96	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
13208	chrY	10034245	.	A	G	403.23	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
13209	chrY	10034262	.	C	T	253.12	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13210	chrY	10034263	.	G	T	250.34	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13211	chrY	10034270	.	G	C	245.58	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13212	chrY	10034271	.	G	C	248.57	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13213	chrY	10034287	.	C	A	167.97	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13214	chrY	10034288	.	T	G	123.84	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13215	chrY	10034293	.	T	C	131.10	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13216	chrY	10034295	.	G	C	131.32	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
13217	chrY	10034767	.	C	T	48.58	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
13218	chrY	10034781	.	A	T	117.87	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
13219	chrY	10034782	.	C	A	142.03	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
13220	chrY	10034788	.	T	C	126.91	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
13221	chrY	10034789	.	G	A	216.66	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
13222	chrY	10034792	.	T	C	263.29	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
13223	chrY	10034793	.	T	G	281.69	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
13224	chrY	10034814	.	C	A	563.10	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=

13225	chrY	10034819	.	T	G	957.51	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
13226	chrY	10034823	.	C	T	694.17	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
13227	chrY	10034824	.	T	G	1067.60	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
13228	chrY	10034827	.	T	G	1433.80	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
13229	chrY	10034836	.	C	A	1688.56	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
13230	chrY	10034848	.	G	A	286.55	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
13231	chrY	10034855	.	G	A	1530.12	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
13232	chrY	10034864	.	C	T	40.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13233	chrY	10034868	.	A	G	40.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13234	chrY	10034887	.	C	T	1760.40	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
13235	chrY	10034888	.	C	G	6598.61	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
13236	chrY	10034941	.	C	A	6862.16	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
13237	chrY	10034953	.	C	T	625.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13238	chrY	10034954	.	A	G	5881.93	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
13239	chrY	10034987	.	G	T,*	2897.52	PASS	AC=14,3;AF=0.226,0.048;AN=62;BaseQ
13240	chrY	10034989	.	C	T	2557.72	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
13241	chrY	10035006	.	A	C	4560.63	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
13242	chrY	10035029	.	A	G	5390.62	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
13243	chrY	10035031	.	T	G	5348.62	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
13244	chrY	10035086	.	T	G	4364.60	my_snp_filter	AC=25;AF=0.368;AN=68;BaseQ
13245	chrY	10035119	.	A	G	3082.48	my_snp_filter	AC=16;AF=0.235;AN=68;BaseQ
13246	chrY	10035125	.	G	T	3018.79	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
13247	chrY	10035128	.	C	T,G	3562.31	my_snp_filter	AC=9,12;AF=0.136,0.182;AN=
13248	chrY	10035146	.	C	T	6581.96	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
13249	chrY	10035147	.	A	G	6575.21	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
13250	chrY	10035153	.	T	G	6279.80	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
13251	chrY	10035159	.	A	T	6150.80	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
13252	chrY	10035180	.	G	T,C	2023.63	my_snp_filter	AC=8,3;AF=0.114,0.043;AN=
13253	chrY	10035184	.	T	C,A	2163.82	my_snp_filter	AC=8,3;AF=0.114,0.043;AN=
13254	chrY	10035191	.	A	C	1099.97	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
13255	chrY	10035202	.	C	T	2894.17	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13256	chrY	10035211	.	C	G	2713.62	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13257	chrY	10035212	.	A	T	2660.70	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13258	chrY	10035216	.	A	G	2454.17	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13259	chrY	10035223	.	T	C	2162.22	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13260	chrY	10035244	.	T	C	369.22	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13261	chrY	10035258	.	C	T	564.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13262	chrY	10035267	.	T	C	304.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13263	chrY	10035274	.	T	C	99.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13264	chrY	10035275	.	G	A	99.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13265	chrY	10035276	.	G	A	99.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13266	chrY	10035289	.	C	G	131.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13267	chrY	10035290	.	C	G	96.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13268	chrY	10035292	.	C	T	97.23	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13269	chrY	10035297	.	A	G	54.95	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
13270	chrY	10035553	.	T	C	74.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13271	chrY	10035560	.	G	A	73.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13272	chrY	10035562	.	A	G	74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13273	chrY	10035566	.	T	G	74.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13274	chrY	10035575	.	A	C	71.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13275	chrY	10035578	.	G	A	71.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13276	chrY	10035584	.	G	A	71.57	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13277	chrY	10035601	.	A	G	192.47	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13278	chrY	10035609	.	G	A	167.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13279	chrY	10035610	.	A	G	167.60	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13280	chrY	10035630	.	C	T	288.18	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13281	chrY	10035635	.	C	A	284.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13282	chrY	10035638	.	A	T	490.34	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
13283	chrY	10035643	.	G	A	368.44	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13284	chrY	10035651	.	T	A	268.47	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13285	chrY	10035664	.	C	G	11617.96	PASS	AC=64;AF=1.00;AN=64;DP=39
13286	chrY	10035680	.	T	C	467.14	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
13287	chrY	10035682	.	A	G	148.04	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
13288	chrY	10035686	.	A	G	140.10	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
13289	chrY	10035695	.	T	C	486.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13290	chrY	10035697	.	T	A	409.66	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13291	chrY	10035725	.	C	A	199.06	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
13292	chrY	10035726	.	A	G	196.77	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13293	chrY	10035731	.	T	A	159.18	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
13294	chrY	10035746	.	A	G	453.22	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13295	chrY	10035748	.	G	A	532.26	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13296	chrY	10035752	.	G	A	613.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13297	chrY	10035768	.	G	A	1223.22	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13298	chrY	10035772	.	T	C	1198.15	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13299	chrY	10035793	.	T	C	1128.63	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
13300	chrY	10035801	.	G	C	181.35	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ

13301	chrY	10035819	.	T	C	2086.42	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
13302	chrY	10035822	.	T	C,A	1612.05	PASS	AC=4,7;AF=0.059,0.103;AN=68;BaseQ
13303	chrY	10035826	.	G	T	1345.69	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
13304	chrY	10035839	.	C	T	1254.26	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
13305	chrY	10035840	.	T	G	1988.25	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
13306	chrY	10035889	.	T	G	3522.07	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13307	chrY	10035910	.	G	A	3598.03	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
13308	chrY	10035915	.	T	A	3578.08	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
13309	chrY	10035919	.	C	T	1173.75	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13310	chrY	10035930	.	C	A	3937.78	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
13311	chrY	10035937	.	A	G	4101.73	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
13312	chrY	10035943	.	T	C	4471.59	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
13313	chrY	10035944	.	G	A	1656.34	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13314	chrY	10035949	.	A	T,G	2614.87	PASS	AC=8,3;AF=0.118,0.044;AN=68;BaseQ
13315	chrY	10035962	.	C	T	2536.40	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
13316	chrY	10035968	.	C	A	1685.67	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13317	chrY	10035971	.	G	A	5066.11	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
13318	chrY	10035985	.	C	A	4716.93	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
13319	chrY	10035991	.	C	T	1635.32	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13320	chrY	10036016	.	C	T	1263.37	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
13321	chrY	10036018	.	A	G	4473.55	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
13322	chrY	10036021	.	C	G	4374.26	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
13323	chrY	10036069	.	C	G	159.54	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
13324	chrY	10036087	.	C	T	1715.86	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13325	chrY	10036088	.	A	G	3172.87	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
13326	chrY	10036105	.	T	C	3274.88	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
13327	chrY	10036107	.	T	C	3434.75	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
13328	chrY	10036111	.	A	G	125.20	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
13329	chrY	10036117	.	C	T	737.31	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
13330	chrY	10036122	.	G	A	756.27	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
13331	chrY	10036126	.	C	G	1107.61	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13332	chrY	10036127	.	G	A	3043.77	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
13333	chrY	10036132	.	T	C	5135.86	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
13334	chrY	10036133	.	G	A	5092.48	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
13335	chrY	10036149	.	T	C	2677.84	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13336	chrY	10036156	.	G	C	6468.57	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
13337	chrY	10036159	.	T	C	6880.74	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
13338	chrY	10036164	.	T	C	7309.47	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
13339	chrY	10036165	.	G	A	4215.04	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13340	chrY	10036175	.	G	A	2498.98	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13341	chrY	10036189	.	C	T	2843.65	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
13342	chrY	10036195	.	T	C	4836.78	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
13343	chrY	10036205	.	G	T	4895.11	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
13344	chrY	10036229	.	T	C	9555.03	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
13345	chrY	10036233	.	G	C	9611.91	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
13346	chrY	10036255	.	G	A	3633.91	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
13347	chrY	10036259	.	C	T	6595.84	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
13348	chrY	10036261	.	C	T	3576	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
13349	chrY	10036262	.	G	A	6587.39	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
13350	chrY	10036267	.	C	A	11548.93	PASS	AC=12;AF=0.222;AN=54;BaseQ
13351	chrY	10036272	.	C	T	6321.90	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
13352	chrY	10036277	.	A	G	3318.08	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
13353	chrY	10036279	.	C	T	10917.24	PASS	AC=12;AF=0.222;AN=54;BaseQ
13354	chrY	10036280	.	A	G	10878.38	PASS	AC=12;AF=0.222;AN=54;BaseQ
13355	chrY	10036298	.	G	T	3213.57	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
13356	chrY	10036313	.	T	C	12694.97	PASS	AC=17;AF=0.293;AN=58;BaseQ
13357	chrY	10036316	.	C	T	7399.89	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
13358	chrY	10036323	.	A	G	7165.32	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
13359	chrY	10036331	.	A	T	13136.61	PASS	AC=17;AF=0.293;AN=58;BaseQ
13360	chrY	10036339	.	C	A,G	8987.48	PASS	AC=12,7;AF=0.214,0.125;AN=56;BaseQ
13361	chrY	10036362	.	T	C	15769.80	PASS	AC=26;AF=0.419;AN=62;BaseQ
13362	chrY	10036374	.	C	T	20539.55	PASS	AC=28;AF=0.438;AN=64;BaseQ
13363	chrY	10036375	.	A	G	20644.55	PASS	AC=28;AF=0.438;AN=64;BaseQ
13364	chrY	10036383	.	G	C	21231.42	PASS	AC=29;AF=0.468;AN=62;BaseQ
13365	chrY	10036396	.	C	T	11015.34	PASS	AC=26;AF=0.394;AN=66;BaseQ
13366	chrY	10036406	.	C	A	11873.57	PASS	AC=26;AF=0.394;AN=66;BaseQ
13367	chrY	10036408	.	C	A	25878.17	PASS	AC=31;AF=0.500;AN=62;BaseQ
13368	chrY	10036412	.	G	A	12045.29	PASS	AC=26;AF=0.406;AN=64;BaseQ
13369	chrY	10036422	.	C	T	28501.77	PASS	AC=34;AF=0.515;AN=66;BaseQ
13370	chrY	10036438	.	C	T	7045.82	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
13371	chrY	10036457	.	C	T	74.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13372	chrY	10036472	.	T	C	245.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13373	chrY	10036483	.	T	C	29046.78	PASS	AC=35;AF=0.515;AN=68;BaseQ
13374	chrY	10036486	.	C	G	29028.81	PASS	AC=35;AF=0.515;AN=68;BaseQ
13375	chrY	10036503	.	T	C	9033.78	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
13376	chrY	10036518	.	C	T	6565.33	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=

13377	chrY	10036519	.	G	A	11383.18	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
13378	chrY	10036530	.	A	G	12152.86	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
13379	chrY	10036533	.	C	A	12190.38	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
13380	chrY	10036544	.	C	T	11732.57	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
13381	chrY	10036545	.	T	C	25070.51	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
13382	chrY	10036552	.	C	T	10333.90	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
13383	chrY	10036553	.	G	A	11226.04	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
13384	chrY	10036586	.	T	C	16896.01	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=
13385	chrY	10036587	.	G	A	10697.44	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
13386	chrY	10036590	.	T	G	10587.03	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
13387	chrY	10036592	.	G	A	2385.13	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
13388	chrY	10036601	.	G	A	87.19	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13389	chrY	10036617	.	C	G	8265.69	PASS	AC=28;AF=0.438;AN=64;BaseQRankSum=
13390	chrY	10036621	.	T	C	17836.26	PASS	AC=29;AF=0.468;AN=62;BaseQRankSum=
13391	chrY	10036622	.	G	C	8143.21	PASS	AC=28;AF=0.452;AN=62;BaseQRankSum=
13392	chrY	10036640	.	T	G	115.11	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
13393	chrY	10036642	.	G	A	6619.25	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=
13394	chrY	10036671	.	C	T	175.93	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
13395	chrY	10036672	.	A	G,C	612.41	PASS	AC=7,1;AF=0.146,0.021;AN=48;BaseQRankSum=
13396	chrY	10036680	.	A	G	460.30	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
13397	chrY	10036685	.	A	T,G	361.65	PASS	AC=4,1;AF=0.087,0.022;AN=46;BaseQRankSum=
13398	chrY	10036686	.	A	G	323.27	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
13399	chrY	10036690	.	T	G	176.98	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
13400	chrY	10036700	.	C	G	243.09	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
13401	chrY	10036719	.	A	C	118.83	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13402	chrY	10036724	.	A	T,*	359.35	PASS	AC=3,1;AF=0.071,0.024;AN=42;BaseQRankSum=
13403	chrY	10036730	.	T	C	327.12	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
13404	chrY	10036731	.	G	A	365.12	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
13405	chrY	10036738	.	C	T	302.23	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13406	chrY	10036741	.	T	C	302.92	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
13407	chrY	10036747	.	G	A	319.01	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
13408	chrY	10036756	.	T	C	317.86	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
13409	chrY	10036777	.	A	G	490.02	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
13410	chrY	10036781	.	G	A	490.10	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
13411	chrY	10036786	.	G	T	306.98	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
13412	chrY	10036807	.	A	C	260.57	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
13413	chrY	10036821	.	T	C	210.93	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
13414	chrY	10036827	.	C	T	42.86	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
13415	chrY	10036843	.	C	A	424.53	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
13416	chrY	10036844	.	A	G	573.79	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
13417	chrY	10036848	.	A	T	53.11	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
13418	chrY	10036866	.	A	G	347.91	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
13419	chrY	10036883	.	A	G	3675.74	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
13420	chrY	10036894	.	T	C	3988.75	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
13421	chrY	10036909	.	G	A	2772.58	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
13422	chrY	10036910	.	A	T	3900.92	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
13423	chrY	10036912	.	T	C	2702.75	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13424	chrY	10036915	.	G	T	3722.16	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
13425	chrY	10036920	.	C	T	3566.39	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
13426	chrY	10036924	.	C	T	2183.91	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
13427	chrY	10036935	.	A	G	2243.99	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
13428	chrY	10036958	.	A	G	2219.49	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
13429	chrY	10036960	.	T	G	2278.43	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
13430	chrY	10036970	.	C	T	1931.76	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
13431	chrY	10036971	.	G	A	1999.86	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
13432	chrY	10036982	.	A	G	730.71	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13433	chrY	10036990	.	C	T	1752.19	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
13434	chrY	10036994	.	G	A	1718.38	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
13435	chrY	10036999	.	T	C	1498.70	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13436	chrY	10037012	.	T	C	1543.97	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
13437	chrY	10037013	.	G	A	1543.69	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
13438	chrY	10037016	.	A	G	1634.05	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
13439	chrY	10037079	.	C	T	1062.23	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
13440	chrY	10037094	.	C	T	1171.37	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
13441	chrY	10037095	.	C	T	1251.56	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
13442	chrY	10037096	.	A	G	1719	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
13443	chrY	10037105	.	C	T	2118	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13444	chrY	10037106	.	A	G	2116.46	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13445	chrY	10037108	.	T	C	2261.97	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13446	chrY	10037114	.	C	T	2611.43	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13447	chrY	10037119	.	A	G	2807.13	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
13448	chrY	10037125	.	G	C	2944.07	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
13449	chrY	10037140	.	C	G	3091.98	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
13450	chrY	10037153	.	A	C	3585.98	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
13451	chrY	10037167	.	T	G	3167.75	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
13452	chrY	10037172	.	C	T	3749.33	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=

13453	chrY	10037173	.	T	G	3752.37	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum
13454	chrY	10037177	.	C	T	3561.47	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
13455	chrY	10037183	.	T	C	3658.95	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
13456	chrY	10037189	.	A	G	4515.92	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum
13457	chrY	10037224	.	G	C	103.13	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13458	chrY	10037237	.	T	C	34.30	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
13459	chrY	10037247	.	C	T	196.18	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
13460	chrY	10037251	.	C	T	70.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13461	chrY	10037252	.	A	G	134.46	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
13462	chrY	10037258	.	T	C	78.82	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13463	chrY	10037270	.	C	A	116.55	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
13464	chrY	10037283	.	C	T	33.61	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
13465	chrY	10037286	.	C	T	33.28	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
13466	chrY	10037287	.	T	G	32.82	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
13467	chrY	10037289	.	G	A	31.31	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
13468	chrY	10037500	.	G	A	314.56	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
13469	chrY	10037513	.	C	T	356.56	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
13470	chrY	10037524	.	C	T	418.85	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
13471	chrY	10037525	.	G	T	353.04	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
13472	chrY	10037527	.	A	G	894.16	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13473	chrY	10037533	.	T	C	974.85	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13474	chrY	10037534	.	G	A	971.33	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13475	chrY	10037535	.	T	C	999.41	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13476	chrY	10037557	.	G	T,*	1732.97	PASS	AC=6,1;AF=0.103,0.017;AN=58;BaseQ
13477	chrY	10037560	.	A	T	1805.02	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
13478	chrY	10037567	.	G	A	1226.12	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
13479	chrY	10037584	.	T	C	2153.39	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
13480	chrY	10037586	.	T	C	2149.44	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
13481	chrY	10037590	.	T	C	2366.25	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
13482	chrY	10037597	.	C	T	167.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13483	chrY	10037600	.	A	G	1988.38	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
13484	chrY	10037604	.	A	T	2728.46	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
13485	chrY	10037605	.	C	T	2239.28	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
13486	chrY	10037606	.	G	A	391.42	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
13487	chrY	10037611	.	C	T	154.99	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13488	chrY	10037612	.	A	G	159.80	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13489	chrY	10037619	.	C	T,*	3320.62	PASS	AC=11,1;AF=0.177,0.016;AN=62;Base
13490	chrY	10037620	.	A	G,*	3323.18	PASS	AC=11,1;AF=0.177,0.016;AN=62;Base
13491	chrY	10037625	.	G	C	470.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13492	chrY	10037636	.	C	T	4288.73	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum
13493	chrY	10037637	.	A	G	4388.94	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum
13494	chrY	10037644	.	C	T	4886.36	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum
13495	chrY	10037652	.	T	G	4139	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
13496	chrY	10037655	.	C	G	634.47	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
13497	chrY	10037656	.	G	A	4306.48	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
13498	chrY	10037661	.	A	G,C,T	5591.32	PASS	AC=11,9,1;AF=0.172,0.141,0.016;AN
13499	chrY	10037676	.	G	A	1345.50	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
13500	chrY	10037681	.	C	T	3362.33	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13501	chrY	10037691	.	C	T	394.42	my_snp_filter	AC=11;AF=0.157;AN=70;Base
13502	chrY	10037700	.	G	A	3386.54	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
13503	chrY	10037704	.	C	T	1601.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
13504	chrY	10037718	.	A	T	19044.22	PASS	AC=33;AF=0.471;AN=70;Base
13505	chrY	10037726	.	C	A	20968.80	PASS	AC=33;AF=0.485;AN=68;Base
13506	chrY	10037727	.	C	T	7983.39	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
13507	chrY	10037728	.	A	G	59.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13508	chrY	10037731	.	G	C	50.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13509	chrY	10037739	.	C	T	38.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13510	chrY	10037740	.	G	A	12361.95	PASS	AC=31;AF=0.456;AN=68;Base
13511	chrY	10037745	.	T	A	23678.04	PASS	AC=34;AF=0.500;AN=68;Base
13512	chrY	10037753	.	T	C	7077.96	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
13513	chrY	10037785	.	C	G	367.29	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
13514	chrY	10037786	.	G	A	24586.69	PASS	AC=37;AF=0.529;AN=70;Base
13515	chrY	10037787	.	G	C	361.24	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
13516	chrY	10037790	.	C	T	11518.01	PASS	AC=30;AF=0.429;AN=70;Base
13517	chrY	10037795	.	G	A	3252.12	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
13518	chrY	10037807	.	T	C	393.92	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
13519	chrY	10037825	.	T	C	543.03	my_snp_filter	AC=10;AF=0.143;AN=70;Base
13520	chrY	10037842	.	A	G	12384.84	PASS	AC=28;AF=0.483;AN=58;Base
13521	chrY	10037855	.	C	T	6918.12	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
13522	chrY	10037863	.	C	T	12046.04	PASS	AC=26;AF=0.419;AN=62;Base
13523	chrY	10037867	.	C	T	6943.91	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
13524	chrY	10037868	.	G	A	3762.97	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
13525	chrY	10037869	.	C	G	6632.13	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum
13526	chrY	10037875	.	C	T,A	9880.32	PASS	AC=20,14;AF=0.333,0.233;AN=60;Bas
13527	chrY	10037880	.	C	T	3564.82	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum
13528	chrY	10037896	.	C	T	1639.72	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=

13529	chrY	10037905	.	T	C	2195.43	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
13530	chrY	10037908	.	G	A	102.80	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
13531	chrY	10037912	.	T	G,*	3064.41	PASS	AC=4,10;AF=0.095,0.238;AN=42;BaseQ
13532	chrY	10037914	.	T	C	69.63	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
13533	chrY	10037921	.	C	T	70.17	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13534	chrY	10037922	.	A	G	58.16	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
13535	chrY	10037927	.	T	A	3307.11	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
13536	chrY	10037931	.	C	T	40.27	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
13537	chrY	10037933	.	C	A	41.79	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
13538	chrY	10037935	.	T	C	40.52	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
13539	chrY	10037937	.	A	G	3033.72	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
13540	chrY	10037938	.	G	T	612.26	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
13541	chrY	10037945	.	C	T	2661.22	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
13542	chrY	10037948	.	A	G	2656.92	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
13543	chrY	10037951	.	C	A	2604.59	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
13544	chrY	10037955	.	C	T	2541.27	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
13545	chrY	10037956	.	T	C	2498.75	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
13546	chrY	10037957	.	G	A	2496.73	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
13547	chrY	10037968	.	C	T	2301.02	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
13548	chrY	10037971	.	G	C	2256.98	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
13549	chrY	10037979	.	A	G	735.88	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13550	chrY	10037996	.	G	T	973.91	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
13551	chrY	10037998	.	A	C	2033.57	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
13552	chrY	10038004	.	A	G	865.36	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13553	chrY	10038008	.	C	T	1905.30	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13554	chrY	10038026	.	C	T	636.57	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
13555	chrY	10038029	.	C	T	1232.85	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
13556	chrY	10038030	.	A	G	1229.85	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
13557	chrY	10038033	.	C	T	645.40	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
13558	chrY	10038049	.	C	T	616.04	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
13559	chrY	10038050	.	A	G	886.76	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
13560	chrY	10038055	.	T	C	108.08	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
13561	chrY	10038068	.	C	T	639.15	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
13562	chrY	10038077	.	C	T	456.13	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
13563	chrY	10038084	.	T	C	541.17	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13564	chrY	10038087	.	T	G	456.57	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13565	chrY	10038099	.	G	C	370.34	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13566	chrY	10038109	.	T	C	245.55	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13567	chrY	10038119	.	A	G	242.50	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13568	chrY	10038192	.	A	G	9045.97	PASS	AC=66;AF=1.00;AN=66;DP=347;FS=0.0
13569	chrY	10038253	.	C	G	140.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13570	chrY	10038265	.	G	A	331.12	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13571	chrY	10038271	.	A	T,G	830.67	PASS	AC=1,2;AF=0.016,0.032;AN=62;BaseQ
13572	chrY	10038275	.	C	T	710.44	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13573	chrY	10038276	.	A	G	710.46	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13574	chrY	10038287	.	G	A	1421.70	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13575	chrY	10038288	.	T	C	1421.70	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13576	chrY	10038289	.	G	C	1421.87	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13577	chrY	10038294	.	T	C	814.67	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13578	chrY	10038301	.	G	A	1569.40	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
13579	chrY	10038303	.	T	A	1600.74	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
13580	chrY	10038309	.	T	C	1770.94	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
13581	chrY	10038310	.	G	A	610.48	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
13582	chrY	10038320	.	T	C	2226.56	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
13583	chrY	10038328	.	C	T,*	1588.86	PASS	AC=4,1;AF=0.067,0.017;AN=60;BaseQ
13584	chrY	10038334	.	A	T	1549.51	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
13585	chrY	10038337	.	G	A	2596.41	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
13586	chrY	10038366	.	T	A	1994.24	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
13587	chrY	10038387	.	T	C	320.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
13588	chrY	10038389	.	G	C	3414.66	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
13589	chrY	10038407	.	G	A	4399.38	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
13590	chrY	10038414	.	A	C	4449.84	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13591	chrY	10038417	.	T	C	4548.84	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13592	chrY	10038418	.	G	A	4621.56	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13593	chrY	10038424	.	A	G	4628.73	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13594	chrY	10038427	.	T	C	4752.94	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13595	chrY	10038435	.	A	G	4711.42	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13596	chrY	10038442	.	G	A	4633.67	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13597	chrY	10038447	.	A	G	4805.20	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13598	chrY	10038454	.	C	T	4906.49	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13599	chrY	10038458	.	T	C	4685.02	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
13600	chrY	10038462	.	C	T	4756.97	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
13601	chrY	10038467	.	G	A	4631.94	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13602	chrY	10038477	.	T	C	4805.52	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
13603	chrY	10038478	.	G	A	153.77	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
13604	chrY	10038492	.	T	A	2410.07	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=

13605	chrY	10038501	.	C	A	2007.11	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
13606	chrY	10038502	.	C	G	2571.12	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
13607	chrY	10038506	.	C	T	2098.07	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
13608	chrY	10038509	.	C	A	502.60	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
13609	chrY	10038516	.	T	C	3187.40	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
13610	chrY	10038519	.	T	G	574.55	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
13611	chrY	10038522	.	T	A	3327.06	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
13612	chrY	10038532	.	C	T	931.69	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
13613	chrY	10038534	.	A	G	931.13	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
13614	chrY	10038537	.	T	C	2428.90	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
13615	chrY	10038541	.	T	C	4243.02	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13616	chrY	10038545	.	T	A	4493.52	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13617	chrY	10038568	.	C	T	1399.25	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13618	chrY	10038569	.	A	G	1389.23	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
13619	chrY	10038581	.	A	C	3307.96	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
13620	chrY	10038589	.	A	C	3732.48	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
13621	chrY	10038594	.	G	A	1323.35	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
13622	chrY	10038598	.	C	G	3699.88	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
13623	chrY	10038599	.	G	A	1318.58	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
13624	chrY	10038600	.	T	C	3772.36	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
13625	chrY	10038603	.	A	G	4168.90	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
13626	chrY	10038609	.	A	G	5986.94	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
13627	chrY	10038617	.	G	A	6270.64	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
13628	chrY	10038638	.	A	G	2945.41	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
13629	chrY	10038641	.	G	A	2962.49	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
13630	chrY	10038642	.	T	C	3087.97	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
13631	chrY	10038650	.	A	G	2902.28	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13632	chrY	10038655	.	A	G	3037.43	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13633	chrY	10038665	.	A	T	3290.70	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13634	chrY	10038666	.	T	C	3289.73	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13635	chrY	10038674	.	G	T	3145.21	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13636	chrY	10038676	.	T	C	3145.73	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13637	chrY	10038681	.	A	G	3143.79	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13638	chrY	10038686	.	C	T	3200.38	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13639	chrY	10038687	.	T	G	3263.93	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
13640	chrY	10038697	.	T	C	3036.41	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
13641	chrY	10038717	.	G	A	35.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13642	chrY	10038728	.	T	C	10666.87	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
13643	chrY	10038731	.	T	C	9606.31	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
13644	chrY	10038734	.	C	T	9859.09	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
13645	chrY	10038735	.	A	G	10576.56	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
13646	chrY	10038744	.	T	G,*	2954.80	PASS	AC=6,7;AF=0.091,0.106;AN=66;BaseQRankSum=
13647	chrY	10038754	.	A	G	490.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13648	chrY	10038761	.	T	C	13220.04	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
13649	chrY	10038762	.	G	A	13288.48	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
13650	chrY	10038767	.	C	A	13309.64	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
13651	chrY	10038774	.	C	T	9038.30	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
13652	chrY	10038808	.	C	T	10075.28	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
13653	chrY	10038812	.	T	G	21680.53	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
13654	chrY	10038824	.	A	T	78.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
13655	chrY	10038827	.	C	A	23952.17	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
13656	chrY	10038829	.	C	A	7064.80	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
13657	chrY	10038839	.	T	C	21205.38	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
13658	chrY	10038840	.	G	A	1969.87	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
13659	chrY	10038855	.	G	A	11379.48	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
13660	chrY	10038865	.	A	G	8411.67	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
13661	chrY	10038874	.	A	G	26208.55	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
13662	chrY	10038879	.	C	T	502.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13663	chrY	10038881	.	T	C	13474.28	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
13664	chrY	10038887	.	G	A	9741.81	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
13665	chrY	10038894	.	G	T	9707.74	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
13666	chrY	10038898	.	G	A	157.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13667	chrY	10038904	.	A	G	163.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13668	chrY	10038927	.	T	C	686.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13669	chrY	10038934	.	T	C	461.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
13670	chrY	10038940	.	T	A	275.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13671	chrY	10038951	.	A	C	2928.29	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
13672	chrY	10038978	.	G	T	31.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13673	chrY	10038983	.	T	C	2293.92	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
13674	chrY	10038985	.	A	T	10981.26	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
13675	chrY	10039007	.	G	C	1406.55	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13676	chrY	10039016	.	T	G	12194.28	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
13677	chrY	10039030	.	A	C	1394.96	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13678	chrY	10039031	.	C	G	11950.83	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
13679	chrY	10039113	.	T	G	8798.06	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
13680	chrY	10039151	.	G	C	8165.66	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=

13681	chrY	10039189	.	C	G	7767.26	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
13682	chrY	10039229	.	A	G	1011.53	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13683	chrY	10039242	.	T	A	9295.02	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=
13684	chrY	10039265	.	C	T	7822.51	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
13685	chrY	10039278	.	A	G	6924.24	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
13686	chrY	10039290	.	A	G	6267.25	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
13687	chrY	10039306	.	T	G	7552.37	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
13688	chrY	10039313	.	T	A	7020.62	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
13689	chrY	10039314	.	C	G	5221.28	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
13690	chrY	10039362	.	C	G	1226.08	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
13691	chrY	10039394	.	C	T	3706.30	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
13692	chrY	10039395	.	A	G	3698.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13693	chrY	10039437	.	A	T	203.20	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
13694	chrY	10039442	.	G	A	8193.16	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
13695	chrY	10039455	.	A	C	9029.14	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
13696	chrY	10039468	.	T	C	2566.91	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
13697	chrY	10039469	.	G	A	2588.51	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
13698	chrY	10039472	.	A	T	2600.37	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
13699	chrY	10039483	.	C	T	829.90	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
13700	chrY	10039501	.	C	A	1603.93	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13701	chrY	10039508	.	A	T,G	7622.52	PASS	AC=12,12;AF=0.176,0.176;AN=68;Bas
13702	chrY	10039511	.	T	A	1609.75	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13703	chrY	10039512	.	C	T	37.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13704	chrY	10039520	.	C	T	15401.81	PASS	AC=26;AF=0.394;AN=66;BaseQ
13705	chrY	10039551	.	A	T	212.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13706	chrY	10039568	.	A	G	2597.71	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13707	chrY	10039572	.	G	T	120.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13708	chrY	10039573	.	A	G	1671.89	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
13709	chrY	10039590	.	C	G	10044.54	PASS	AC=22;AF=0.333;AN=66;BaseQ
13710	chrY	10039591	.	G	A	841.21	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13711	chrY	10039596	.	G	A	104.06	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
13712	chrY	10039597	.	G	T	2488.34	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
13713	chrY	10039598	.	G	A	202.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
13714	chrY	10039609	.	C	T,A	3697.47	PASS	AC=5,11;AF=0.071,0.157;AN=70;Base
13715	chrY	10039619	.	T	A	101.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13716	chrY	10039620	.	G	T	292.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13717	chrY	10039632	.	T	C	13323.08	PASS	AC=30;AF=0.484;AN=62;BaseQ
13718	chrY	10039633	.	G	A	10036.42	PASS	AC=25;AF=0.403;AN=62;BaseQ
13719	chrY	10039643	.	A	G	16739.61	PASS	AC=30;AF=0.484;AN=62;BaseQ
13720	chrY	10039646	.	T	G	5714.27	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
13721	chrY	10039651	.	G	A	769.56	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13722	chrY	10039655	.	G	T	6794.02	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
13723	chrY	10039657	.	C	T	2860.39	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
13724	chrY	10039661	.	G	A	22737.58	PASS	AC=31;AF=0.500;AN=62;BaseQ
13725	chrY	10039671	.	C	G	3356.84	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
13726	chrY	10039693	.	A	G	198.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
13727	chrY	10039706	.	C	T	153.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13728	chrY	10039709	.	C	A	241	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13729	chrY	10039718	.	G	T	6548.31	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
13730	chrY	10039721	.	C	G	2501.12	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
13731	chrY	10039730	.	C	T	14920.21	PASS	AC=35;AF=0.500;AN=70;BaseQ
13732	chrY	10039731	.	T	G	56434.62	PASS	AC=36;AF=0.514;AN=70;BaseQ
13733	chrY	10039737	.	A	G	30614.24	PASS	AC=34;AF=0.486;AN=70;BaseQ
13734	chrY	10039744	.	C	T	2223.31	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
13735	chrY	10039762	.	C	T	6855.72	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
13736	chrY	10039771	.	C	T	14948.80	PASS	AC=33;AF=0.471;AN=70;BaseQ
13737	chrY	10039778	.	G	A	9624.83	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
13738	chrY	10039782	.	T	C	1424.13	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
13739	chrY	10039789	.	G	A	5789.08	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
13740	chrY	10039790	.	C	T	8315.83	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
13741	chrY	10039805	.	C	G	4893.33	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
13742	chrY	10039823	.	T	A	256.86	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
13743	chrY	10039839	.	G	A,T	2360.34	PASS	AC=16,3;AF=0.229,0.043;AN=70;Base
13744	chrY	10039846	.	G	T,C	8292.81	my_snp_filter	AC=12,19;AF=0.171,0.271;AN=70;Base
13745	chrY	10039847	.	G	A	221.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13746	chrY	10039853	.	C	T	8605.98	my_snp_filter	AC=27;AF=0.386;AN=70;BaseQ
13747	chrY	10039872	.	A	G	37.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13748	chrY	10039873	.	G	T	37.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13749	chrY	10039896	.	A	C	69.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13750	chrY	10039920	.	T	C	645.50	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13751	chrY	10039922	.	G	A	2646.21	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
13752	chrY	10039938	.	C	T	61.26	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
13753	chrY	10039993	.	G	A	729.59	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
13754	chrY	10040016	.	T	C	457.36	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13755	chrY	10040017	.	G	T	501.84	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13756	chrY	10040034	.	A	C	129.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ

13757	chrY	10040042	.	T	G	92.61	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13758	chrY	10040050	.	T	C	198.33	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13759	chrY	10040052	.	C	A	140.16	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13760	chrY	10040053	.	A	G	140.85	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13761	chrY	10040059	.	C	A	142.41	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13762	chrY	10040079	.	C	T	167.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13763	chrY	10040094	.	A	G	124.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13764	chrY	10040095	.	G	A	169.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13765	chrY	10040109	.	C	T	46.48	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
13766	chrY	10040118	.	T	C	107.50	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
13767	chrY	10040148	.	A	C	61.85	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
13768	chrY	10040424	.	G	A	43.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13769	chrY	10040432	.	A	G	74.28	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
13770	chrY	10040449	.	A	C	258.85	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13771	chrY	10040463	.	G	A	1264.71	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
13772	chrY	10040464	.	C	A	1031.07	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
13773	chrY	10040474	.	T	C	639.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
13774	chrY	10040490	.	C	T	109.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
13775	chrY	10040498	.	C	T	142.44	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
13776	chrY	10040518	.	C	G	2912.96	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
13777	chrY	10040581	.	C	G	128.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13778	chrY	10040589	.	A	G	8022.58	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13779	chrY	10040598	.	C	T	8311.99	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13780	chrY	10040599	.	T	G	8314.99	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13781	chrY	10040611	.	C	G	3019.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13782	chrY	10040619	.	C	T	2808.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
13783	chrY	10040629	.	A	G	8812.34	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
13784	chrY	10040644	.	T	C	1784.13	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
13785	chrY	10040649	.	T	G	1160.16	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
13786	chrY	10040659	.	A	T	11061.43	my_snp_filter	AC=18;AF=0.257;AN=
13787	chrY	10040670	.	A	G	1098.31	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQ
13788	chrY	10040679	.	C	T	12688.43	my_snp_filter	AC=23;AF=0.329;AN=
13789	chrY	10040725	.	C	A	19057.10	my_snp_filter	AC=26;AF=0.371;AN=
13790	chrY	10040738	.	G	C	23204.89	my_snp_filter	AC=26;AF=0.419;AN=
13791	chrY	10040739	.	G	T	23300.89	my_snp_filter	AC=26;AF=0.419;AN=
13792	chrY	10040751	.	T	C	6663.96	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
13793	chrY	10040760	.	C	G	7208.13	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
13794	chrY	10040775	.	A	C,T	5943.28	my_snp_filter	AC=5,11;AF=0.071,0.157;AN=
13795	chrY	10040795	.	T	C	187.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13796	chrY	10040798	.	G	A	15128.02	PASS	AC=34;AF=0.486;AN=70;BaseQ
13797	chrY	10040800	.	T	C	174.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
13798	chrY	10040801	.	A	C	47301.79	PASS	AC=35;AF=0.500;AN=70;BaseQ
13799	chrY	10040815	.	A	T	4356.54	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
13800	chrY	10040819	.	C	T	7523.27	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
13801	chrY	10040824	.	A	G	30565.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
13802	chrY	10040834	.	A	T	6803.90	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
13803	chrY	10040836	.	G	A	16326.76	PASS	AC=23;AF=0.329;AN=70;BaseQ
13804	chrY	10040839	.	A	G	16325.76	PASS	AC=23;AF=0.329;AN=70;BaseQ
13805	chrY	10040850	.	T	C,*	7468.94	PASS	AC=29,1;AF=0.414,0.014;AN=70;BaseQ
13806	chrY	10040851	.	G	A	596.52	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13807	chrY	10040858	.	G	T	825.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
13808	chrY	10040860	.	T	C	17661.57	PASS	AC=23;AF=0.338;AN=68;BaseQ
13809	chrY	10040869	.	A	G	2838.94	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
13810	chrY	10040877	.	A	G	1228.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13811	chrY	10040881	.	T	G	1279.65	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
13812	chrY	10040904	.	A	C	18764.27	PASS	AC=21;AF=0.339;AN=62;BaseQ
13813	chrY	10040914	.	A	G	40822.71	PASS	AC=31;AF=0.517;AN=60;BaseQ
13814	chrY	10040928	.	A	G	328.78	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
13815	chrY	10040930	.	A	G	19765.07	PASS	AC=30;AF=0.441;AN=68;BaseQ
13816	chrY	10040957	.	C	A	759.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
13817	chrY	10040974	.	A	T	2902.54	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
13818	chrY	10040984	.	T	C	1702.24	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13819	chrY	10040991	.	C	T	2934.04	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
13820	chrY	10040992	.	T	G	80.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
13821	chrY	10040995	.	C	T	4854.01	PASS	AC=14;AF=0.438;AN=32;BaseQRankSum=
13822	chrY	10041017	.	G	C	122.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13823	chrY	10041022	.	T	C,A	3262.30	PASS	AC=6,4;AF=0.143,0.095;AN=42;BaseQ
13824	chrY	10041026	.	T	A	745.91	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
13825	chrY	10041030	.	G	A	640.71	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
13826	chrY	10041044	.	A	T	32.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
13827	chrY	10041053	.	T	G	109.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13828	chrY	10041067	.	C	T	406.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13829	chrY	10041079	.	A	T	2649.48	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
13830	chrY	10041089	.	A	T	1286.74	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
13831	chrY	10041107	.	C	G	1036.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
13832	chrY	10041108	.	A	G	1039.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

13833	chrY	10041125	.	A	T	1338.85	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
13834	chrY	10041128	.	G	T,C	2753.25	PASS	AC=3,1;AF=0.052,0.017;AN=58;BaseQ
13835	chrY	10041130	.	C	T	2927.73	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
13836	chrY	10041133	.	C	A	255.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13837	chrY	10041147	.	G	A	780.84	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13838	chrY	10041150	.	T	G	660.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13839	chrY	10041151	.	G	A	660.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13840	chrY	10041152	.	G	T	57.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13841	chrY	10041154	.	A	C	60.76	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13842	chrY	10041160	.	G	T	450.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13843	chrY	10041165	.	T	G	873.45	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13844	chrY	10041166	.	G	A	879.45	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13845	chrY	10041170	.	G	A	1247.52	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
13846	chrY	10041174	.	C	T	194.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
13847	chrY	10041175	.	A	G	1116.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
13848	chrY	10041183	.	G	A	1031.67	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
13849	chrY	10041209	.	C	G	1166.25	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
13850	chrY	10041210	.	G	T	1157.48	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
13851	chrY	10041230	.	C	G	1019.88	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
13852	chrY	10041242	.	G	C	693.78	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
13853	chrY	10041268	.	T	G	246.84	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
13854	chrY	10041271	.	G	A	225.64	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
13855	chrY	10041324	.	T	G	142.70	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
13856	chrY	10041500	.	G	A	7130.43	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
13857	chrY	10041513	.	T	C	7078.29	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
13858	chrY	10041522	.	G	T	4618.47	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=
13859	chrY	10041535	.	A	G	7219.55	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
13860	chrY	10041545	.	C	T	7315.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
13861	chrY	10041565	.	G	A	16314.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13862	chrY	10041567	.	A	C	5818.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
13863	chrY	10041574	.	T	C	16632.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13864	chrY	10041584	.	A	C	16716.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13865	chrY	10041603	.	A	C	17268.33	PASS	AC=8;AF=0.444;AN=18;BaseQ
13866	chrY	10041614	.	G	C	3255.33	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
13867	chrY	10041656	.	T	C	14149.19	PASS	AC=13;AF=0.406;AN=32;Base
13868	chrY	10041697	.	C	T	3441.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
13869	chrY	10041711	.	T	G	15488.31	PASS	AC=9;AF=0.500;AN=18;BaseQ
13870	chrY	10041743	.	T	A	6425.68	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
13871	chrY	10041752	.	C	A	6309.34	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=
13872	chrY	10041755	.	A	T	6238.96	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
13873	chrY	10041759	.	G	T	5866.76	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=
13874	chrY	10041793	.	C	A	15045.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13875	chrY	10041812	.	C	G	15009.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13876	chrY	10041813	.	C	A	14886.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
13877	chrY	10041839	.	G	A	15093.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
13878	chrY	10041854	.	T	C	13794.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
13879	chrY	10041855	.	G	A	13996.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
13880	chrY	10041863	.	G	A	6813.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
13881	chrY	10041867	.	A	G	12982.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
13882	chrY	10041879	.	A	G	12787.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
13883	chrY	10041886	.	C	A	6454.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
13884	chrY	10041900	.	T	G	6472.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
13885	chrY	10041903	.	A	T	6231.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
13886	chrY	10041927	.	C	T	84.80	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
13887	chrY	10041930	.	C	T	82.24	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
13888	chrY	10041949	.	A	C	73.89	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
13889	chrY	10041953	.	A	C	385.18	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
13890	chrY	10041961	.	G	A	158.70	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
13891	chrY	10041973	.	G	T	18169.02	PASS	AC=13;AF=0.464;AN=28;Base
13892	chrY	10041974	.	T	G	738.45	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
13893	chrY	10041987	.	G	A	16868.30	PASS	AC=11;AF=0.423;AN=26;Base
13894	chrY	10042001	.	G	A	19935.04	PASS	AC=12;AF=0.353;AN=34;Base
13895	chrY	10042017	.	A	T	9230.10	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
13896	chrY	10042023	.	G	A	9585.10	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
13897	chrY	10042036	.	C	T	9935.76	PASS	AC=11;AF=0.344;AN=32;BaseQRankSum=
13898	chrY	10042071	.	C	G	9063.15	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
13899	chrY	10042089	.	G	A	2798.79	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
13900	chrY	10042099	.	A	G	10419.53	PASS	AC=9;AF=0.237;AN=38;BaseQ
13901	chrY	10042111	.	A	G	11525.48	PASS	AC=9;AF=0.205;AN=44;BaseQ
13902	chrY	10042115	.	A	G	11376.38	PASS	AC=9;AF=0.205;AN=44;BaseQ
13903	chrY	10042131	.	T	C	20848.38	PASS	AC=11;AF=0.275;AN=40;Base
13904	chrY	10042140	.	T	C	12442.55	PASS	AC=9;AF=0.205;AN=44;BaseQ
13905	chrY	10042141	.	G	A	12478.47	PASS	AC=9;AF=0.196;AN=46;BaseQ
13906	chrY	10042145	.	A	G	21896.06	PASS	AC=11;AF=0.306;AN=36;Base
13907	chrY	10042176	.	C	T	6195.39	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
13908	chrY	10042177	.	A	G	6322.42	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=

13909	chrY	10042184	.	G	A	13610.18	PASS	AC=21;AF=0.328;AN=64;BaseQ
13910	chrY	10042192	.	T	G	23270.40	PASS	AC=21;AF=0.362;AN=58;BaseQ
13911	chrY	10042206	.	C	G	22944.19	PASS	AC=22;AF=0.393;AN=56;BaseQ
13912	chrY	10042211	.	T	C	5779.36	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
13913	chrY	10042212	.	G	A	5784.46	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
13914	chrY	10042251	.	G	A	7187.28	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
13915	chrY	10042282	.	T	C	848.47	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
13916	chrY	10042286	.	A	T	96.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
13917	chrY	10042288	.	A	T	27403.78	PASS	AC=29;AF=0.426;AN=68;BaseQ
13918	chrY	10042291	.	G	C	25556.85	PASS	AC=28;AF=0.400;AN=70;BaseQ
13919	chrY	10042297	.	T	A	1286.24	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
13920	chrY	10042306	.	C	A	25170.58	PASS	AC=26;AF=0.371;AN=70;BaseQ
13921	chrY	10042333	.	A	G	37026	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum
13922	chrY	10042338	.	T	C	9630.54	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
13923	chrY	10042352	.	T	A	43785.81	PASS	AC=25;AF=0.379;AN=66;BaseQ
13924	chrY	10042357	.	T	C	2663.85	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
13925	chrY	10042363	.	T	G	169.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
13926	chrY	10042367	.	A	T,C	40368.12	PASS	AC=16,14;AF=0.242,0.212;AN=68
13927	chrY	10042368	.	A	G	24198.67	my_snp_filter	AC=22;AF=0.355;AN=68
13928	chrY	10042373	.	G	T	258.75	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13929	chrY	10042377	.	C	A	21135.46	PASS	AC=17;AF=0.243;AN=70;BaseQ
13930	chrY	10042381	.	T	C	4546.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
13931	chrY	10042385	.	G	A	11797.09	PASS	AC=12;AF=0.171;AN=70;BaseQ
13932	chrY	10042391	.	G	A	21351.23	PASS	AC=17;AF=0.243;AN=70;BaseQ
13933	chrY	10042397	.	A	G	12681.05	PASS	AC=12;AF=0.171;AN=70;BaseQ
13934	chrY	10042398	.	T	C	144.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
13935	chrY	10042410	.	A	T	5550.61	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
13936	chrY	10042415	.	G	C	28311.29	PASS	AC=26;AF=0.406;AN=64;BaseQ
13937	chrY	10042423	.	A	G	1609.35	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
13938	chrY	10042424	.	T	C	336.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
13939	chrY	10042435	.	C	G	531.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
13940	chrY	10042447	.	A	G	49.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13941	chrY	10042449	.	G	A	694.89	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum
13942	chrY	10042453	.	A	T	2178.60	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
13943	chrY	10042458	.	T	C	2320.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
13944	chrY	10042463	.	A	C	43505.67	PASS	AC=38;AF=0.559;AN=68;BaseQ
13945	chrY	10042474	.	C	T	61.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
13946	chrY	10042476	.	T	C	1317.06	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
13947	chrY	10042485	.	A	T	6081.63	PASS	AC=22;AF=0.407;AN=54;BaseQRankSum
13948	chrY	10042486	.	T	A,*	385.99	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
13949	chrY	10042496	.	G	C	688.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
13950	chrY	10042501	.	C	T	5948.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
13951	chrY	10042510	.	C	T	406.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
13952	chrY	10042518	.	C	T	663.11	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
13953	chrY	10042519	.	T	C	6445.31	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
13954	chrY	10042524	.	A	G	1836.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
13955	chrY	10042527	.	C	G	46676.58	PASS	AC=34;AF=0.500;AN=68;BaseQ
13956	chrY	10042528	.	A	C	34887.22	PASS	AC=32;AF=0.457;AN=70;BaseQ
13957	chrY	10042534	.	T	G	6833.70	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
13958	chrY	10042538	.	C	A,*	7426.34	PASS	AC=8,5;AF=0.118,0.074;AN=68;BaseQ
13959	chrY	10042539	.	G	A	110.91	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
13960	chrY	10042540	.	T	C	40783.69	PASS	AC=34;AF=0.500;AN=68;BaseQ
13961	chrY	10042545	.	A	G	203.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
13962	chrY	10042567	.	T	C	23909.22	PASS	AC=32;AF=0.457;AN=70;BaseQ
13963	chrY	10042569	.	T	C	150.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
13964	chrY	10042575	.	C	A,T	951.63	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
13965	chrY	10042577	.	A	T	43958.52	PASS	AC=34;AF=0.500;AN=68;BaseQ
13966	chrY	10042583	.	C	G	3962.25	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum
13967	chrY	10042584	.	T	A	282.42	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
13968	chrY	10042598	.	C	T	2196.90	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum
13969	chrY	10042599	.	T	G,A	2706.89	PASS	AC=3,2;AF=0.058,0.038;AN=52;BaseQ
13970	chrY	10042608	.	T	A	276.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13971	chrY	10042609	.	A	C	26860.04	PASS	AC=32;AF=0.485;AN=66;BaseQ
13972	chrY	10042614	.	T	C	369.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
13973	chrY	10042616	.	A	G	6233.83	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
13974	chrY	10042621	.	T	C	99.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
13975	chrY	10042622	.	G	C	239.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13976	chrY	10042630	.	T	C,*	3097.10	PASS	AC=4,3;AF=0.111,0.083;AN=36;BaseQ
13977	chrY	10042638	.	G	T	92.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
13978	chrY	10042645	.	C	T	460.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
13979	chrY	10042654	.	G	T	424.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
13980	chrY	10042658	.	G	T	411.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
13981	chrY	10042659	.	A	G	457.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
13982	chrY	10042668	.	G	A	212.19	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
13983	chrY	10042685	.	T	G,*	8351.29	PASS	AC=11,1;AF=0.393,0.036;AN=28;BaseQ
13984	chrY	10042713	.	A	T,G	10438.79	PASS	AC=8,2;AF=0.308,0.077;AN=28

13985	chrY	10042724	.	T	A	3058.79	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
13986	chrY	10042731	.	C	T	236.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
13987	chrY	10042735	.	G	A	2519.62	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
13988	chrY	10042736	.	T	G	5445.37	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
13989	chrY	10042752	.	A	C,*	786.92	PASS	AC=3,3;AF=0.075,0.075;AN=40;BaseQ
13990	chrY	10042757	.	C	T,*	539.88	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
13991	chrY	10042761	.	G	A,*	1658.30	PASS	AC=8,3;AF=0.250,0.094;AN=32;BaseQ
13992	chrY	10042763	.	A	G,*	797.55	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
13993	chrY	10042790	.	G	T,*	1153.26	PASS	AC=4,4;AF=0.133,0.133;AN=30;BaseQ
13994	chrY	10042797	.	G	C,*	519.05	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
13995	chrY	10042924	.	C	T,*	436.36	PASS	AC=2,1;AF=0.143,0.071;AN=14;BaseQ
13996	chrY	10042975	.	A	G	11479.05	PASS	AC=8;AF=0.667;AN=12;BaseQ
13997	chrY	10042978	.	T	C	69.27	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
13998	chrY	10042981	.	A	G	308.87	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
13999	chrY	10042994	.	G	T	4674.35	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
14000	chrY	10042997	.	C	A	1949.43	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
14001	chrY	10043007	.	G	C	304.30	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
14002	chrY	10043014	.	G	C,T	11572.52	PASS	AC=11,3;AF=0.423,0.115;AN
14003	chrY	10043015	.	A	T	768.32	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
14004	chrY	10043017	.	T	C	490.02	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
14005	chrY	10043025	.	C	G	120.58	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
14006	chrY	10043026	.	A	G	92.13	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
14007	chrY	10043028	.	T	A	1149.60	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
14008	chrY	10043030	.	C	A	619.74	my_snp_filter	AC=5;AF=0.096;AN=52;BaseQ
14009	chrY	10043037	.	A	G	395.58	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
14010	chrY	10043040	.	A	T	1446.82	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
14011	chrY	10043047	.	A	G	44.09	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
14012	chrY	10043058	.	G	T	39.38	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
14013	chrY	10043060	.	G	T	118.02	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
14014	chrY	10043064	.	C	T	879.57	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
14015	chrY	10043066	.	A	T	3566.23	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
14016	chrY	10043071	.	G	A	6311.23	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
14017	chrY	10043077	.	C	T	65011.43	PASS	AC=29;AF=0.659;AN=44;BaseQ
14018	chrY	10043081	.	G	A	90.89	PASS	AC=2;AF=0.033;AN=60;DP=8497;FS=0.
14019	chrY	10043084	.	A	T	6241.61	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
14020	chrY	10043091	.	A	C	79.20	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
14021	chrY	10043094	.	T	G	10283.20	PASS	AC=9;AF=0.150;AN=60;BaseQ
14022	chrY	10043100	.	C	T	10298.41	PASS	AC=7;AF=0.130;AN=54;BaseQ
14023	chrY	10043110	.	A	T	14171.38	PASS	AC=8;AF=0.138;AN=58;BaseQ
14024	chrY	10043119	.	A	T	587.17	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
14025	chrY	10043122	.	T	C	4717.80	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
14026	chrY	10043124	.	T	G	2305.53	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
14027	chrY	10043130	.	A	G	48.94	PASS	AC=2;AF=0.036;AN=56;DP=8157;FS=0.
14028	chrY	10043134	.	C	A	42802.96	PASS	AC=8;AF=0.182;AN=44;BaseQ
14029	chrY	10043147	.	G	A	9859.12	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
14030	chrY	10043148	.	T	C	105929.52	PASS	AC=15;AF=0.750;AN=20;BaseQ
14031	chrY	10043151	.	T	C	2199.07	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
14032	chrY	10043154	.	T	C	9833.15	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
14033	chrY	10043156	.	C	T	115455.88	PASS	AC=19;AF=0.950;AN=20;BaseQ
14034	chrY	10043163	.	G	A	4944.45	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
14035	chrY	10043165	.	T	A	32153.46	PASS	AC=9;AF=0.180;AN=50;BaseQ
14036	chrY	10043170	.	C	G	14937.72	PASS	AC=7;AF=0.152;AN=46;BaseQ
14037	chrY	10043182	.	T	G	3215.99	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
14038	chrY	10043193	.	G	A	19782.56	PASS	AC=10;AF=0.263;AN=38;BaseQ
14039	chrY	10043207	.	G	A,C	5813.33	PASS	AC=6,2;AF=0.130,0.043;AN=46;BaseQ
14040	chrY	10043210	.	A	G	95350.52	PASS	AC=20;AF=1.00;AN=20;BaseQ
14041	chrY	10043220	.	A	G	7708.73	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
14042	chrY	10043223	.	G	T	7779.80	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
14043	chrY	10043230	.	G	A	3834.80	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQ
14044	chrY	10043231	.	A	G	89913.78	PASS	AC=20;AF=0.909;AN=22;BaseQ
14045	chrY	10043236	.	C	G	4582.25	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
14046	chrY	10043238	.	T	A	7613.71	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
14047	chrY	10043243	.	G	T	4594.85	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
14048	chrY	10043269	.	C	T	1400.57	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
14049	chrY	10043272	.	A	T	22663.05	PASS	AC=12;AF=0.273;AN=44;BaseQ
14050	chrY	10043279	.	C	T	7036.68	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
14051	chrY	10043289	.	A	G	5111.76	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ
14052	chrY	10043294	.	C	T	44908.95	PASS	AC=14;AF=0.389;AN=36;BaseQ
14053	chrY	10043295	.	T	C	2587.24	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
14054	chrY	10043301	.	A	T	13399.08	PASS	AC=8;AF=0.190;AN=42;BaseQ
14055	chrY	10043304	.	T	A	13235.18	PASS	AC=8;AF=0.190;AN=42;BaseQ
14056	chrY	10043305	.	C	A	261.99	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
14057	chrY	10043311	.	G	T	614.13	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
14058	chrY	10043313	.	T	C	635.37	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
14059	chrY	10043315	.	T	C	2304.37	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
14060	chrY	10043318	.	T	G	60209.39	PASS	AC=9;AF=0.346;AN=26;BaseQ

14061	chrY	10043332	.	G	T	40917.48	PASS	AC=9;AF=0.300;AN=30;BaseQ
14062	chrY	10043356	.	G	A	412.52	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
14063	chrY	10043357	.	G	T,C	38358.37	PASS	AC=8,3;AF=0.222,0.083;AN=
14064	chrY	10043360	.	A	T	70800.01	PASS	AC=11;AF=0.344;AN=32;Base
14065	chrY	10043362	.	C	T	70194.45	PASS	AC=11;AF=0.344;AN=32;Base
14066	chrY	10043363	.	A	G	57149.04	PASS	AC=9;AF=0.265;AN=34;BaseQ
14067	chrY	10043368	.	C	T	3947	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
14068	chrY	10043369	.	C	G	4058.12	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
14069	chrY	10043382	.	A	C	5249.96	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
14070	chrY	10043385	.	C	A	133.52	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
14071	chrY	10043390	.	T	A	77791.41	PASS	AC=11;AF=0.289;AN=38;BaseQ
14072	chrY	10043396	.	T	C	640.53	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
14073	chrY	10043397	.	A	G	104.54	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
14074	chrY	10043398	.	T	A	9674.06	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
14075	chrY	10043405	.	C	T	64007.20	PASS	AC=9;AF=0.167;AN=54;BaseQ
14076	chrY	10043406	.	A	G	85187.50	PASS	AC=12;AF=0.222;AN=54;BaseQ
14077	chrY	10043413	.	A	G	84100.07	PASS	AC=9;AF=0.161;AN=56;BaseQ
14078	chrY	10043415	.	A	C,T	78174.53	PASS	AC=10,4;AF=0.227,0.091;AN=
14079	chrY	10043419	.	G	T,C	52990.73	PASS	AC=1,8;AF=0.016,0.129;AN=
14080	chrY	10043420	.	C	G,A	72255.44	PASS	AC=9,7;AF=0.150,0.117;AN=
14081	chrY	10043437	.	T	C	546	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14082	chrY	10043444	.	A	T	75.87	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
14083	chrY	10043483	.	C	T	2106.61	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14084	chrY	10043484	.	A	G	43230.90	PASS	AC=15;AF=0.214;AN=70;BaseQ
14085	chrY	10043489	.	C	A	5733.34	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14086	chrY	10043495	.	C	T	38414.93	PASS	AC=11;AF=0.157;AN=70;BaseQ
14087	chrY	10043496	.	C	A	15545.25	PASS	AC=6;AF=0.086;AN=70;BaseQ
14088	chrY	10043498	.	C	T	4490.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14089	chrY	10043505	.	T	C	7271.43	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
14090	chrY	10043509	.	A	T	13471.02	PASS	AC=5;AF=0.071;AN=70;BaseQ
14091	chrY	10043512	.	T	C	41276.53	PASS	AC=10;AF=0.143;AN=70;BaseQ
14092	chrY	10043517	.	T	G	22888.42	PASS	AC=5;AF=0.071;AN=70;BaseQ
14093	chrY	10043519	.	T	A	1969.30	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14094	chrY	10043520	.	G	T	13672.91	PASS	AC=10;AF=0.185;AN=54;BaseQ
14095	chrY	10043524	.	G	A	15810.18	PASS	AC=9;AF=0.129;AN=70;BaseQ
14096	chrY	10043528	.	A	G	201.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14097	chrY	10043530	.	C	T	58160.05	PASS	AC=12;AF=0.222;AN=54;BaseQ
14098	chrY	10043535	.	A	T	28327.66	PASS	AC=5;AF=0.071;AN=70;BaseQ
14099	chrY	10043538	.	C	T	135.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14100	chrY	10043539	.	A	T	2715.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14101	chrY	10043540	.	A	G	51474.02	PASS	AC=11;AF=0.196;AN=56;BaseQ
14102	chrY	10043542	.	C	G	7313.53	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
14103	chrY	10043546	.	A	T	48894.12	PASS	AC=12;AF=0.231;AN=52;BaseQ
14104	chrY	10043548	.	A	G	47804.60	PASS	AC=12;AF=0.222;AN=54;BaseQ
14105	chrY	10043551	.	G	A	1493	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
14106	chrY	10043557	.	C	G	23912.90	PASS	AC=9;AF=0.129;AN=70;BaseQ
14107	chrY	10043558	.	C	T	23648.91	PASS	AC=9;AF=0.129;AN=70;BaseQ
14108	chrY	10043559	.	A	T	6336.99	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14109	chrY	10043560	.	G	A	6255.93	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14110	chrY	10043562	.	G	A	3111.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14111	chrY	10043572	.	A	T,C	24528.16	PASS	AC=4,8;AF=0.077,0.154;AN=
14112	chrY	10043573	.	G	A	7482.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14113	chrY	10043576	.	T	C,*	8712.43	PASS	AC=6,3;AF=0.086,0.043;AN=70;BaseQ
14114	chrY	10043577	.	G	A,*	8475.16	PASS	AC=6,3;AF=0.086,0.043;AN=70;BaseQ
14115	chrY	10043578	.	G	A	2664.01	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14116	chrY	10043585	.	G	A	254.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14117	chrY	10043587	.	T	C	27939.26	PASS	AC=9;AF=0.129;AN=70;BaseQ
14118	chrY	10043592	.	G	T	6675.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14119	chrY	10043596	.	A	G	3426.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14120	chrY	10043597	.	A	C	20213.35	PASS	AC=9;AF=0.129;AN=70;BaseQ
14121	chrY	10043600	.	G	A	1583.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14122	chrY	10043608	.	A	C	35404.62	PASS	AC=20;AF=0.323;AN=62;BaseQ
14123	chrY	10043613	.	C	T	334.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14124	chrY	10043625	.	A	T	621.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14125	chrY	10043626	.	C	G	210.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14126	chrY	10043632	.	C	A	180.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14127	chrY	10043634	.	T	C	112.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14128	chrY	10043644	.	C	T	1142.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
14129	chrY	10043658	.	A	G	79794.98	PASS	AC=27;AF=0.435;AN=62;BaseQ
14130	chrY	10043665	.	C	A	23705.59	PASS	AC=15;AF=0.214;AN=70;BaseQ
14131	chrY	10043670	.	C	G	4518.66	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14132	chrY	10043672	.	C	G	21948.54	PASS	AC=15;AF=0.214;AN=70;BaseQ
14133	chrY	10043682	.	T	C	79535.88	PASS	AC=24;AF=0.429;AN=56;BaseQ
14134	chrY	10043684	.	T	C	1869.60	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
14135	chrY	10043685	.	T	G	9524.65	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
14136	chrY	10043688	.	A	T	83442.59	PASS	AC=19;AF=0.317;AN=60;BaseQ

14137	chrY	10043694	.	T	C	1722.47	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
14138	chrY	10043695	.	T	G	3233.06	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
14139	chrY	10043705	.	G	T	40.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14140	chrY	10043706	.	G	T	26791.10	PASS	AC=15;AF=0.250;AN=60;BaseQ
14141	chrY	10043712	.	A	G	8878.88	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
14142	chrY	10043715	.	C	T,A	474.85	PASS	AC=2,3;AF=0.029,0.044;AN=68;BaseQ
14143	chrY	10043721	.	T	A	118.44	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
14144	chrY	10043729	.	G	T	1595.70	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
14145	chrY	10043741	.	T	C	1823.48	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
14146	chrY	10043748	.	C	A	564.25	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
14147	chrY	10043757	.	G	A	47.77	PASS	AC=2;AF=0.030;AN=66;DP=6984;FS=0.
14148	chrY	10043758	.	T	C	99210.01	PASS	AC=23;AF=0.500;AN=46;BaseQ
14149	chrY	10043762	.	T	C	539.93	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
14150	chrY	10043766	.	G	A	511.06	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
14151	chrY	10043772	.	T	C	9977.96	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
14152	chrY	10043775	.	A	T	12346.47	PASS	AC=14;AF=0.233;AN=60;BaseQ
14153	chrY	10043780	.	C	T	47.27	PASS	AC=2;AF=0.030;AN=66;DP=6306;FS=0.
14154	chrY	10043794	.	T	A	86.71	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
14155	chrY	10043799	.	T	A,C	125111.25	PASS	AC=29,5;AF=0.763,0.132;AN=
14156	chrY	10043804	.	G	A	101.62	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
14157	chrY	10043819	.	C	A	201.57	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
14158	chrY	10043828	.	C	G	134115.37	PASS	AC=22;AF=0.647;AN=34;BaseQ
14159	chrY	10043838	.	A	G	2370.62	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
14160	chrY	10043849	.	T	C	532.28	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
14161	chrY	10043855	.	C	T	15247.87	PASS	AC=10;AF=0.217;AN=46;BaseQ
14162	chrY	10043857	.	C	T	81450.65	PASS	AC=14;AF=0.368;AN=38;BaseQ
14163	chrY	10043863	.	T	G	159.72	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
14164	chrY	10043867	.	T	G	43.94	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
14165	chrY	10043869	.	A	G	1329.65	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
14166	chrY	10043870	.	G	A,T	8427.09	PASS	AC=9,1;AF=0.205,0.023;AN=44;BaseQ
14167	chrY	10043871	.	C	A	1984.03	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
14168	chrY	10043878	.	G	T	6321.12	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
14169	chrY	10043882	.	T	C	87841.03	PASS	AC=16;AF=0.444;AN=36;BaseQ
14170	chrY	10043896	.	A	G	21556.30	PASS	AC=11;AF=0.220;AN=50;BaseQ
14171	chrY	10043909	.	A	G	8340.83	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
14172	chrY	10043915	.	G	A	110.13	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
14173	chrY	10043919	.	C	T	22470.72	PASS	AC=9;AF=0.173;AN=52;BaseQ
14174	chrY	10043920	.	A	G	22391.64	PASS	AC=10;AF=0.208;AN=48;BaseQ
14175	chrY	10043928	.	G	T	7575.22	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
14176	chrY	10043948	.	T	G	38.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14177	chrY	10043960	.	A	G	2785.92	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
14178	chrY	10043962	.	A	C	6593.78	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
14179	chrY	10043966	.	A	T	6692.23	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
14180	chrY	10043983	.	G	T	2288.01	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14181	chrY	10043984	.	A	C	2266.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14182	chrY	10043994	.	G	A	6731.92	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14183	chrY	10044000	.	T	C	1392.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14184	chrY	10044001	.	G	A	1392.91	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14185	chrY	10044006	.	T	C	1184.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14186	chrY	10044014	.	A	C	5869.71	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14187	chrY	10044026	.	A	C,T	22139.98	PASS	AC=8,1;AF=0.121,0.015;AN=
14188	chrY	10044027	.	G	A	21851.86	PASS	AC=8;AF=0.121;AN=66;BaseQ
14189	chrY	10044036	.	A	T	6245.57	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14190	chrY	10044046	.	T	C	5603.55	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14191	chrY	10044047	.	A	G	36230.04	PASS	AC=10;AF=0.147;AN=68;BaseQ
14192	chrY	10044052	.	T	C	36107.25	PASS	AC=10;AF=0.147;AN=68;BaseQ
14193	chrY	10044053	.	A	T	21969.48	PASS	AC=10;AF=0.147;AN=68;BaseQ
14194	chrY	10044055	.	A	T	36226.90	PASS	AC=10;AF=0.143;AN=70;BaseQ
14195	chrY	10044061	.	C	T	10705.46	PASS	AC=9;AF=0.129;AN=70;BaseQ
14196	chrY	10044062	.	A	G	10711.44	PASS	AC=9;AF=0.129;AN=70;BaseQ
14197	chrY	10044069	.	C	A	22811.08	PASS	AC=10;AF=0.147;AN=68;BaseQ
14198	chrY	10044070	.	C	A	22748.87	PASS	AC=10;AF=0.147;AN=68;BaseQ
14199	chrY	10044071	.	A	G	11218.19	PASS	AC=9;AF=0.129;AN=70;BaseQ
14200	chrY	10044078	.	T	G	11208.19	PASS	AC=9;AF=0.129;AN=70;BaseQ
14201	chrY	10044079	.	A	G	11214.59	PASS	AC=9;AF=0.129;AN=70;BaseQ
14202	chrY	10044086	.	A	G	36495.66	PASS	AC=10;AF=0.143;AN=70;BaseQ
14203	chrY	10044088	.	G	A	6550.38	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14204	chrY	10044090	.	A	G	11339.16	PASS	AC=9;AF=0.129;AN=70;BaseQ
14205	chrY	10044095	.	T	G	10982.12	PASS	AC=9;AF=0.129;AN=70;BaseQ
14206	chrY	10044099	.	T	C	36028.25	PASS	AC=10;AF=0.143;AN=70;BaseQ
14207	chrY	10044118	.	C	G	3408.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14208	chrY	10044122	.	T	C	4648.79	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
14209	chrY	10044134	.	T	G	12305.68	PASS	AC=9;AF=0.129;AN=70;BaseQ
14210	chrY	10044173	.	C	A	25413.59	PASS	AC=15;AF=0.227;AN=66;BaseQ
14211	chrY	10044180	.	C	T	18141.05	PASS	AC=10;AF=0.147;AN=68;BaseQ
14212	chrY	10044194	.	C	G,A	4659.25	PASS	AC=5,8;AF=0.074,0.118;AN=68;BaseQ

14213	chrY	10044207	.	G	T	6784.32	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
14214	chrY	10044216	.	T	C	185.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14215	chrY	10044224	.	G	A	169.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14216	chrY	10044232	.	G	C,*	6612.40	PASS	AC=1,6;AF=0.014,0.086;AN=70;BaseQ
14217	chrY	10044235	.	G	C,*	6612.55	PASS	AC=1,6;AF=0.014,0.086;AN=70;BaseQ
14218	chrY	10044243	.	A	T,*	7066.23	PASS	AC=12,5;AF=0.171,0.071;AN=70;BaseQ
14219	chrY	10044256	.	G	C,*	5376.09	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14220	chrY	10044262	.	C	T,*	4933.51	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14221	chrY	10044263	.	G	A,*	5720.87	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14222	chrY	10044272	.	A	C,*	4978.28	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14223	chrY	10044274	.	G	A,*	4973.76	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14224	chrY	10044280	.	A	T,*	4897.93	PASS	AC=1,5;AF=0.014,0.071;AN=70;BaseQ
14225	chrY	10044286	.	T	G,*	7701.36	PASS	AC=7,5;AF=0.117,0.083;AN=60;BaseQ
14226	chrY	10044291	.	G	A,*	7469	PASS	AC=6,5;AF=0.091,0.076;AN=66;BaseQ
14227	chrY	10044311	.	T	C,*	8359.53	PASS	AC=8,5;AF=0.129,0.081;AN=62;BaseQ
14228	chrY	10044315	.	T	A,*	8365.52	PASS	AC=6,5;AF=0.097,0.081;AN=62;BaseQ
14229	chrY	10044317	.	T	C,*	5884.22	PASS	AC=3,5;AF=0.048,0.081;AN=62;BaseQ
14230	chrY	10044338	.	C	T,*	7466.26	PASS	AC=2,5;AF=0.031,0.078;AN=64;BaseQ
14231	chrY	10044352	.	T	C,*	5185.61	PASS	AC=3,5;AF=0.044,0.074;AN=68;BaseQ
14232	chrY	10044353	.	C	G,*	5413.38	PASS	AC=1,5;AF=0.015,0.074;AN=68;BaseQ
14233	chrY	10044358	.	G	A,*	8551.95	PASS	AC=4,5;AF=0.067,0.083;AN=60;BaseQ
14234	chrY	10044375	.	C	G,*	7749.86	PASS	AC=2,5;AF=0.031,0.078;AN=64;BaseQ
14235	chrY	10044381	.	A	G,*	6675.56	PASS	AC=3,5;AF=0.048,0.081;AN=62;BaseQ
14236	chrY	10044386	.	T	G,*	5674.45	PASS	AC=3,5;AF=0.044,0.074;AN=68;BaseQ
14237	chrY	10044388	.	G	A,*	5688.30	PASS	AC=3,5;AF=0.044,0.074;AN=68;BaseQ
14238	chrY	10044391	.	A	G,*	7924.59	PASS	AC=4,5;AF=0.061,0.076;AN=66;BaseQ
14239	chrY	10044408	.	A	G	1086.71	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14240	chrY	10044428	.	G	T	31.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14241	chrY	10044430	.	G	A	1391.92	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14242	chrY	10044433	.	A	G	13386.72	PASS	AC=22;AF=0.379;AN=58;BaseQ
14243	chrY	10044438	.	A	G	1556.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14244	chrY	10044442	.	T	C	14274.69	PASS	AC=23;AF=0.383;AN=60;BaseQ
14245	chrY	10044447	.	G	A	5644.24	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
14246	chrY	10044454	.	A	C	158.93	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
14247	chrY	10044459	.	T	C	1667.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14248	chrY	10044466	.	C	T,A	1942.96	PASS	AC=3,3;AF=0.088,0.088;AN=34;BaseQ
14249	chrY	10044467	.	C	A	1683.86	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
14250	chrY	10044469	.	C	A,T	4044.93	PASS	AC=8,6;AF=0.174,0.130;AN=46;BaseQ
14251	chrY	10044476	.	T	C	39.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14252	chrY	10044477	.	A	T	39.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14253	chrY	10044501	.	C	T	49.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14254	chrY	10044511	.	T	C	55.99	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14255	chrY	10044525	.	A	G	103.34	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14256	chrY	10044526	.	C	T	6471.22	PASS	AC=13;AF=0.310;AN=42;BaseQRankSum=
14257	chrY	10044527	.	G	A	11797.87	PASS	AC=14;AF=0.333;AN=42;BaseQ
14258	chrY	10044537	.	C	T	1272.50	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14259	chrY	10044548	.	T	C	1018.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14260	chrY	10044550	.	G	A	2467.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14261	chrY	10044555	.	G	A	3993.57	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14262	chrY	10044567	.	C	T	63685.35	PASS	AC=25;AF=0.595;AN=42;BaseQ
14263	chrY	10044580	.	T	A	4601.51	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
14264	chrY	10044581	.	C	A	1698.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14265	chrY	10044588	.	G	T	9094.43	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
14266	chrY	10044594	.	T	A	32020.83	PASS	AC=21;AF=0.300;AN=70;BaseQ
14267	chrY	10044601	.	G	T	38360.39	PASS	AC=23;AF=0.338;AN=68;BaseQ
14268	chrY	10044602	.	C	T	24426.38	PASS	AC=21;AF=0.309;AN=68;BaseQ
14269	chrY	10044610	.	G	T	7211.23	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
14270	chrY	10044612	.	C	T	583.95	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
14271	chrY	10044613	.	C	T	55.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14272	chrY	10044614	.	T	A	17888.66	PASS	AC=23;AF=0.329;AN=70;BaseQ
14273	chrY	10044616	.	G	T	74781.56	PASS	AC=25;AF=0.500;AN=50;BaseQ
14274	chrY	10044617	.	G	A	49.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14275	chrY	10044618	.	G	T	1070.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14276	chrY	10044620	.	G	T	32722.78	PASS	AC=23;AF=0.338;AN=68;BaseQ
14277	chrY	10044627	.	G	T	1359.05	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14278	chrY	10044635	.	T	C	1027.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14279	chrY	10044637	.	C	T	63.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14280	chrY	10044639	.	T	C	55041.90	PASS	AC=27;AF=0.540;AN=50;BaseQ
14281	chrY	10044648	.	T	G	8363.48	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
14282	chrY	10044649	.	A	G	5204.56	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14283	chrY	10044650	.	A	G	5671.48	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
14284	chrY	10044662	.	C	T,G	10159.36	PASS	AC=10,11;AF=0.143,0.157;AN=
14285	chrY	10044669	.	A	G	1171.16	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14286	chrY	10044680	.	A	G	25760.69	PASS	AC=27;AF=0.386;AN=70;BaseQ
14287	chrY	10044682	.	T	G,A	62190.20	PASS	AC=30,2;AF=0.500,0.033;AN=
14288	chrY	10044684	.	A	G	63048.78	PASS	AC=31;AF=0.517;AN=60;BaseQ

14289	chrY	10044686	.	G	A	1612.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14290	chrY	10044687	.	C	A	29242.61	PASS	AC=27;AF=0.409;AN=66;BaseQ
14291	chrY	10044702	.	G	T	1672.84	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14292	chrY	10044708	.	C	A	1285.59	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
14293	chrY	10044710	.	T	A	27131.39	PASS	AC=27;AF=0.397;AN=68;BaseQ
14294	chrY	10044711	.	T	G	293.53	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
14295	chrY	10044714	.	C	T	265.79	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
14296	chrY	10044718	.	G	A	38347.47	PASS	AC=27;AF=0.450;AN=60;BaseQ
14297	chrY	10044722	.	A	G	51854.21	PASS	AC=29;AF=0.483;AN=60;BaseQ
14298	chrY	10044723	.	A	T	382.83	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
14299	chrY	10044725	.	C	A	27660.15	PASS	AC=27;AF=0.422;AN=64;BaseQ
14300	chrY	10044728	.	G	A	19336.10	PASS	AC=19;AF=0.328;AN=58;BaseQ
14301	chrY	10044735	.	G	A	31556.72	PASS	AC=23;AF=0.371;AN=62;BaseQ
14302	chrY	10044736	.	C	T	27468.34	PASS	AC=21;AF=0.339;AN=62;BaseQ
14303	chrY	10044740	.	G	T	51112.58	PASS	AC=22;AF=0.367;AN=60;BaseQ
14304	chrY	10044748	.	C	G	52.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
14305	chrY	10044751	.	T	C	47864.76	PASS	AC=22;AF=0.367;AN=60;BaseQ
14306	chrY	10044755	.	C	A	2802.14	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
14307	chrY	10044769	.	G	C	28373.80	PASS	AC=21;AF=0.328;AN=64;BaseQ
14308	chrY	10044770	.	A	T	30631.87	PASS	AC=21;AF=0.328;AN=64;BaseQ
14309	chrY	10044771	.	G	T	964	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
14310	chrY	10044772	.	C	T	3429.17	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
14311	chrY	10044773	.	C	G,T	38299.12	PASS	AC=9,20;AF=0.150,0.333;AN=
14312	chrY	10044783	.	C	T	10140.80	PASS	AC=13;AF=0.186;AN=70;BaseQ
14313	chrY	10044784	.	T	A	28537.34	PASS	AC=21;AF=0.300;AN=70;BaseQ
14314	chrY	10044796	.	G	T	623.96	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
14315	chrY	10044818	.	T	C	3449.90	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14316	chrY	10044822	.	T	C	15711.34	PASS	AC=21;AF=0.300;AN=70;BaseQ
14317	chrY	10044823	.	G	A	8476.18	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
14318	chrY	10044824	.	G	A	448.84	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
14319	chrY	10044836	.	G	A	44556.46	PASS	AC=28;AF=0.400;AN=70;BaseQ
14320	chrY	10044843	.	T	C	63204.11	PASS	AC=31;AF=0.443;AN=70;BaseQ
14321	chrY	10044846	.	G	T	65128.18	PASS	AC=31;AF=0.443;AN=70;BaseQ
14322	chrY	10044847	.	G	C	6809.34	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
14323	chrY	10044850	.	A	T	539.97	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
14324	chrY	10044851	.	C	A	729.61	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
14325	chrY	10044852	.	G	A	7088.85	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
14326	chrY	10044857	.	T	C	68565.68	PASS	AC=31;AF=0.443;AN=70;BaseQ
14327	chrY	10044871	.	A	T	8119.25	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
14328	chrY	10044874	.	C	T	73687.06	PASS	AC=31;AF=0.443;AN=70;BaseQ
14329	chrY	10044882	.	T	G	246.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
14330	chrY	10044883	.	C	A	149.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14331	chrY	10044890	.	T	C	9825.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
14332	chrY	10044892	.	A	G	35152.70	PASS	AC=27;AF=0.386;AN=70;BaseQ
14333	chrY	10044912	.	T	A	1379.83	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
14334	chrY	10044919	.	A	G,C	9441.32	PASS	AC=8,13;AF=0.114,0.186;AN=70;BaseQ
14335	chrY	10044930	.	G	T	1820.65	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
14336	chrY	10044939	.	G	T	580.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14337	chrY	10044942	.	G	C	50417.15	PASS	AC=30;AF=0.441;AN=68;BaseQ
14338	chrY	10044948	.	G	T	16984.77	PASS	AC=20;AF=0.286;AN=70;BaseQ
14339	chrY	10044957	.	G	T	1616.92	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQ
14340	chrY	10044963	.	G	A	1205.36	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
14341	chrY	10044982	.	A	T	597.23	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
14342	chrY	10044987	.	C	T	52.22	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
14343	chrY	10044990	.	C	A	576.26	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
14344	chrY	10044992	.	C	T	595.05	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
14345	chrY	10045006	.	G	A	76.15	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
14346	chrY	10045010	.	C	G	133.82	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
14347	chrY	10045011	.	T	C	271.91	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
14348	chrY	10045023	.	G	T	141.23	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
14349	chrY	10045029	.	A	G	35.29	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
14350	chrY	10045062	.	C	A	4555.68	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=
14351	chrY	10045064	.	C	G	139.80	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
14352	chrY	10045068	.	C	A	138.02	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
14353	chrY	10045077	.	T	C	230.69	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
14354	chrY	10045105	.	G	A	9981.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
14355	chrY	10045107	.	A	G	86.93	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
14356	chrY	10045109	.	T	C	287.65	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
14357	chrY	10045114	.	C	G,*	882.02	PASS	AC=3,4;AF=0.125,0.167;AN=24;BaseQ
14358	chrY	10045115	.	A	G,*	890.63	PASS	AC=3,4;AF=0.136,0.182;AN=22;BaseQ
14359	chrY	10045116	.	C	T	9957.82	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
14360	chrY	10045119	.	C	A,T	2634.61	PASS	AC=7,2;AF=0.269,0.077;AN=26;BaseQ
14361	chrY	10045126	.	C	T	1004.88	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
14362	chrY	10045131	.	C	A	5006.85	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
14363	chrY	10045134	.	T	A	182.85	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
14364	chrY	10045165	.	A	G	263.97	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=

14365	chrY	10045176	.	A	G	7118.81	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
14366	chrY	10045179	.	C	T	244.28	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
14367	chrY	10045180	.	G	T,A	3111.06	PASS	AC=5,7;AF=0.192,0.269;AN=26;BaseQ
14368	chrY	10045181	.	C	T	45.50	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
14369	chrY	10045182	.	T	A	5586.40	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
14370	chrY	10045188	.	G	A	677.59	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
14371	chrY	10045194	.	G	A	2172.81	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
14372	chrY	10045204	.	G	C	3557.76	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
14373	chrY	10045206	.	A	C	44.71	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
14374	chrY	10045220	.	A	C	283.30	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
14375	chrY	10045238	.	T	A	379.68	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
14376	chrY	10045243	.	T	G	858.34	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
14377	chrY	10045598	.	G	A	103.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
14378	chrY	10045601	.	T	C	112.09	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14379	chrY	10045603	.	T	G	110.68	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14380	chrY	10045625	.	A	G	77.61	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
14381	chrY	10045629	.	T	A	82.70	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14382	chrY	10045644	.	C	T	72.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14383	chrY	10045655	.	C	A	7812.46	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum=
14384	chrY	10047184	.	T	C	673.31	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
14385	chrY	10047782	.	T	C	112.86	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
14386	chrY	10047804	.	A	C	482.48	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
14387	chrY	10047828	.	A	C	886.81	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
14388	chrY	10047855	.	A	C	5953.35	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
14389	chrY	10047859	.	C	A	5905.20	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
14390	chrY	10047865	.	T	C	194.35	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
14391	chrY	10047900	.	T	C	3293.41	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=
14392	chrY	10047902	.	T	C	1499.02	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
14393	chrY	10047935	.	C	A	3513.32	my_snp_filter	AC=12;AF=0.171;AN=70;Base
14394	chrY	10047939	.	C	T	1376.61	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14395	chrY	10047940	.	G	A	1302.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14396	chrY	10047948	.	G	A	2861.80	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
14397	chrY	10047953	.	T	A	2571.06	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
14398	chrY	10047968	.	T	C	1020.15	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14399	chrY	10047990	.	T	C	609.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14400	chrY	10048013	.	A	C	253.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14401	chrY	10048027	.	A	G	380.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14402	chrY	10048037	.	A	C	433.46	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14403	chrY	10048073	.	G	A	3473.36	my_snp_filter	AC=13;AF=0.191;AN=68;Base
14404	chrY	10048079	.	T	C	3959.13	my_snp_filter	AC=12;AF=0.176;AN=68;Base
14405	chrY	10048088	.	C	T	119.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14406	chrY	10048099	.	T	A	258.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14407	chrY	10048101	.	G	A,C	499.88	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
14408	chrY	10048110	.	C	T	256.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14409	chrY	10048111	.	C	T	6591.59	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
14410	chrY	10048115	.	G	A	237.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14411	chrY	10048119	.	C	T	7050.32	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
14412	chrY	10048125	.	A	G,*	425.92	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
14413	chrY	10048130	.	T	G	9001.47	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
14414	chrY	10048145	.	A	C	105.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14415	chrY	10048146	.	G	T	384.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14416	chrY	10048149	.	G	T,A	10260.94	PASS	AC=2,10;AF=0.030,0.152;AN=
14417	chrY	10048154	.	C	T	49.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14418	chrY	10048163	.	T	C	10881.79	PASS	AC=10;AF=0.147;AN=68;Base
14419	chrY	10048164	.	G	C	10882.95	PASS	AC=10;AF=0.147;AN=68;Base
14420	chrY	10048177	.	G	T	719.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14421	chrY	10048183	.	A	G	724.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14422	chrY	10048192	.	G	A	9612.15	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
14423	chrY	10048207	.	C	T	803.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14424	chrY	10048208	.	A	G	803.23	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14425	chrY	10048212	.	A	G	800.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14426	chrY	10048239	.	G	T	88.50	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
14427	chrY	10048257	.	C	T	9107.78	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
14428	chrY	10048266	.	C	T	279.74	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
14429	chrY	10048267	.	G	A	10069.72	PASS	AC=15;AF=0.234;AN=64;Base
14430	chrY	10048269	.	T	C	10128.90	PASS	AC=14;AF=0.200;AN=70;Base
14431	chrY	10048270	.	G	T	10379.67	PASS	AC=16;AF=0.229;AN=70;Base
14432	chrY	10048283	.	T	C	11881.84	PASS	AC=18;AF=0.273;AN=66;Base
14433	chrY	10048284	.	G	A	12043.84	PASS	AC=18;AF=0.273;AN=66;Base
14434	chrY	10048304	.	C	A	14741.91	PASS	AC=18;AF=0.273;AN=66;Base
14435	chrY	10048318	.	C	T	8924.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
14436	chrY	10048329	.	T	C	9628.81	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
14437	chrY	10048331	.	G	A	9724.84	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
14438	chrY	10048340	.	A	G	10079.10	PASS	AC=10;AF=0.143;AN=70;Base
14439	chrY	10048351	.	C	G	14189.43	PASS	AC=34;AF=0.486;AN=70;Base
14440	chrY	10048362	.	G	A	9882.74	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=

14441	chrY	10048369	.	G	A	10293.40	PASS	AC=9;AF=0.129;AN=70;BaseQ
14442	chrY	10048379	.	A	C	28561.89	PASS	AC=32;AF=0.457;AN=70;Base
14443	chrY	10048389	.	T	G	10938.76	PASS	AC=9;AF=0.129;AN=70;BaseQ
14444	chrY	10048399	.	C	T,A	14720.11	PASS	AC=19,9;AF=0.271,0.129;AN
14445	chrY	10048426	.	A	T	26735.36	PASS	AC=23;AF=0.348;AN=66;Base
14446	chrY	10048445	.	C	T	15714.16	PASS	AC=17;AF=0.283;AN=60;Base
14447	chrY	10048453	.	T	C	7517.63	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
14448	chrY	10048484	.	A	G	7279.34	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
14449	chrY	10048496	.	C	T	1919.53	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14450	chrY	10048497	.	C	T	1916.53	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14451	chrY	10048498	.	A	G	1898.53	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14452	chrY	10048500	.	A	G	1826.54	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14453	chrY	10048503	.	A	G	27022.19	PASS	AC=9;AF=0.265;AN=34;BaseQ
14454	chrY	10048504	.	C	A,T	2108.38	PASS	AC=4,3;AF=0.105,0.079;AN=38;BaseQ
14455	chrY	10048506	.	C	G	1545.92	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14456	chrY	10048514	.	A	G	24754.83	PASS	AC=9;AF=0.281;AN=32;BaseQ
14457	chrY	10048519	.	G	T	1348.36	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
14458	chrY	10048520	.	G	A,T	19823.41	PASS	AC=9,5;AF=0.300,0.167;AN=
14459	chrY	10048523	.	A	T,C	25553.90	PASS	AC=9,1;AF=0.300,0.033;AN=
14460	chrY	10048528	.	C	A	1021.38	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
14461	chrY	10048536	.	C	T	26513.70	PASS	AC=9;AF=0.321;AN=28;BaseQ
14462	chrY	10048537	.	C	G	26508.61	PASS	AC=9;AF=0.321;AN=28;BaseQ
14463	chrY	10048540	.	T	G	11061.48	PASS	AC=9;AF=0.375;AN=24;BaseQ
14464	chrY	10048544	.	C	T	646.80	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
14465	chrY	10048550	.	T	C	415.45	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
14466	chrY	10048551	.	C	T	414.01	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
14467	chrY	10048553	.	G	A	403.95	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
14468	chrY	10048555	.	G	C	400.36	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
14469	chrY	10048556	.	A	T	364.80	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
14470	chrY	10048571	.	T	C	26044.23	PASS	AC=9;AF=0.450;AN=20;BaseQ
14471	chrY	10048587	.	A	T	23836.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
14472	chrY	10048601	.	G	C	23384.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
14473	chrY	10048604	.	T	A	23335.46	PASS	AC=11;AF=0.500;AN=22;Base
14474	chrY	10048615	.	G	T	5669.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
14475	chrY	10048662	.	C	T	9687.57	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
14476	chrY	10048672	.	A	G	1445.68	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
14477	chrY	10048676	.	G	A	1615.09	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
14478	chrY	10048682	.	A	C	27344.70	PASS	AC=11;AF=0.500;AN=22;Base
14479	chrY	10048687	.	C	T	9054.76	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
14480	chrY	10048692	.	G	A	2081.29	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
14481	chrY	10048700	.	C	A	2550	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
14482	chrY	10048724	.	T	A	30843.24	PASS	AC=10;AF=0.417;AN=24;Base
14483	chrY	10048727	.	G	C	3941.82	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
14484	chrY	10048728	.	A	T	3945.82	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
14485	chrY	10048748	.	T	C	4337.27	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
14486	chrY	10048759	.	A	G	34470.82	PASS	AC=14;AF=0.500;AN=28;Base
14487	chrY	10048777	.	C	T	36278.14	PASS	AC=13;AF=0.464;AN=28;Base
14488	chrY	10048788	.	A	C	37222.87	PASS	AC=13;AF=0.500;AN=26;Base
14489	chrY	10048793	.	A	G	5121.21	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum=
14490	chrY	10048795	.	G	C	4896.27	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
14491	chrY	10048797	.	T	A,G	29196.43	PASS	AC=13,5;AF=0.464,0.179;AN
14492	chrY	10048834	.	T	G	14523.81	PASS	AC=18;AF=0.333;AN=54;Base
14493	chrY	10048846	.	A	G	10711.24	PASS	AC=22;AF=0.324;AN=68;Base
14494	chrY	10048858	.	C	T	24799.93	PASS	AC=24;AF=0.387;AN=62;Base
14495	chrY	10048872	.	C	T	40470.90	PASS	AC=24;AF=0.500;AN=48;Base
14496	chrY	10048873	.	A	G	40219.90	PASS	AC=24;AF=0.500;AN=48;Base
14497	chrY	10048877	.	G	A	11457.18	PASS	AC=17;AF=0.283;AN=60;Base
14498	chrY	10048893	.	A	C	787.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14499	chrY	10048900	.	A	G	10479.29	PASS	AC=16;AF=0.267;AN=60;Base
14500	chrY	10048901	.	G	C	746.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14501	chrY	10048924	.	T	G	10158.45	PASS	AC=23;AF=0.329;AN=70;Base
14502	chrY	10048931	.	T	C	10191.74	PASS	AC=22;AF=0.314;AN=70;Base
14503	chrY	10048933	.	A	T	48696.29	PASS	AC=30;AF=0.500;AN=60;Base
14504	chrY	10048936	.	A	G	49444.29	PASS	AC=30;AF=0.500;AN=60;Base
14505	chrY	10048945	.	T	C	51915.29	PASS	AC=30;AF=0.500;AN=60;Base
14506	chrY	10048955	.	A	T	8251.42	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14507	chrY	10048961	.	T	C	9991.51	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
14508	chrY	10048969	.	A	G	37926.31	PASS	AC=28;AF=0.438;AN=64;Base
14509	chrY	10049009	.	T	C	7695.78	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14510	chrY	10049012	.	C	A	7784.13	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14511	chrY	10049023	.	G	C	44074.32	PASS	AC=36;AF=0.514;AN=70;Base
14512	chrY	10049030	.	G	A	6573.14	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
14513	chrY	10049047	.	G	C	11816.85	PASS	AC=33;AF=0.471;AN=70;Base
14514	chrY	10049048	.	A	G	5669.03	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
14515	chrY	10049069	.	T	A	34502.81	PASS	AC=35;AF=0.500;AN=70;Base
14516	chrY	10049073	.	C	T	33723.76	PASS	AC=35;AF=0.500;AN=70;Base

14517	chrY	10049083	.	G	C	6754.11	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
14518	chrY	10049109	.	T	C	4406.83	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
14519	chrY	10049120	.	T	A	2694.66	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
14520	chrY	10049124	.	G	C	8338.27	PASS	AC=18;AF=0.474;AN=38;BaseQRankSum
14521	chrY	10049126	.	C	T	8277.01	my_snp_filter	AC=18;AF=0.409;AN=44;BaseQ
14522	chrY	10049131	.	T	C,*	8185.98	my_snp_filter	AC=15,7;AF=0.300,0.140;AN
14523	chrY	10049142	.	T	C	6202.69	my_snp_filter	AC=15;AF=0.268;AN=56;BaseQ
14524	chrY	10049144	.	C	A	2597.40	my_snp_filter	AC=15;AF=0.278;AN=54;BaseQ
14525	chrY	10049147	.	C	A	9249.67	my_snp_filter	AC=17;AF=0.370;AN=46;BaseQ
14526	chrY	10049178	.	T	C	1291.53	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
14527	chrY	10049188	.	G	T	89.85	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
14528	chrY	10049193	.	A	G	111.72	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
14529	chrY	10049199	.	G	A	965.86	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
14530	chrY	10049200	.	C	G	960.94	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
14531	chrY	10049205	.	T	A	966.80	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
14532	chrY	10049211	.	G	A	7215.64	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
14533	chrY	10049213	.	C	T	441.30	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
14534	chrY	10049218	.	A	C	308.78	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
14535	chrY	10049219	.	G	A	305.78	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
14536	chrY	10049220	.	A	T	302.14	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
14537	chrY	10049222	.	T	G	8054.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
14538	chrY	10049226	.	A	G	8660.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
14539	chrY	10049227	.	C	A	111.39	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
14540	chrY	10049254	.	C	T	9789.75	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14541	chrY	10049255	.	T	G	9828.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14542	chrY	10049258	.	A	T	10075.71	my_snp_filter	AC=9;AF=0.321;AN=
14543	chrY	10049261	.	A	G	10324.83	my_snp_filter	AC=9;AF=0.300;AN=
14544	chrY	10049281	.	T	A	11317.71	my_snp_filter	AC=10;AF=0.357;AN=
14545	chrY	10049308	.	G	A	11954.17	PASS	AC=12;AF=0.333;AN=36;BaseQ
14546	chrY	10049311	.	A	G	2487.65	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
14547	chrY	10049332	.	A	G	3048.18	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
14548	chrY	10049354	.	A	T	3349.65	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
14549	chrY	10049370	.	G	A	19477.74	PASS	AC=18;AF=0.333;AN=54;BaseQ
14550	chrY	10049371	.	G	T	4940.50	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum
14551	chrY	10049384	.	C	T	21679.82	PASS	AC=19;AF=0.365;AN=52;BaseQ
14552	chrY	10049411	.	G	C	23766.81	PASS	AC=23;AF=0.383;AN=60;BaseQ
14553	chrY	10049436	.	A	G	10609.41	PASS	AC=22;AF=0.333;AN=66;BaseQ
14554	chrY	10049438	.	T	C	3305.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14555	chrY	10049469	.	C	T	40880.13	PASS	AC=30;AF=0.455;AN=66;BaseQ
14556	chrY	10049482	.	G	A	42389.13	PASS	AC=30;AF=0.455;AN=66;BaseQ
14557	chrY	10049487	.	C	A	9169.87	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
14558	chrY	10049524	.	C	T	15945.03	PASS	AC=28;AF=0.400;AN=70;BaseQ
14559	chrY	10049544	.	A	G	16403.23	PASS	AC=28;AF=0.400;AN=70;BaseQ
14560	chrY	10049560	.	A	G	36240.68	PASS	AC=34;AF=0.500;AN=68;BaseQ
14561	chrY	10049563	.	A	G	15056.02	PASS	AC=28;AF=0.412;AN=68;BaseQ
14562	chrY	10049572	.	T	C	34241.04	PASS	AC=34;AF=0.500;AN=68;BaseQ
14563	chrY	10049583	.	G	T	14232.19	PASS	AC=27;AF=0.397;AN=68;BaseQ
14564	chrY	10049640	.	A	G,T	14936.99	PASS	AC=5,16;AF=0.089,0.286;AN
14565	chrY	10049653	.	C	T	14051.25	PASS	AC=18;AF=0.300;AN=60;BaseQ
14566	chrY	10049675	.	G	T	12695.42	PASS	AC=10;AF=0.179;AN=56;BaseQ
14567	chrY	10049682	.	A	C	28467.38	PASS	AC=11;AF=0.190;AN=58;BaseQ
14568	chrY	10049684	.	T	A	28549.69	PASS	AC=11;AF=0.204;AN=54;BaseQ
14569	chrY	10049696	.	C	T	11967.08	PASS	AC=10;AF=0.172;AN=58;BaseQ
14570	chrY	10049715	.	G	A	28340.31	PASS	AC=10;AF=0.185;AN=54;BaseQ
14571	chrY	10049720	.	T	G	28346.59	PASS	AC=10;AF=0.185;AN=54;BaseQ
14572	chrY	10049741	.	G	T	11538.89	PASS	AC=9;AF=0.141;AN=64;BaseQ
14573	chrY	10049744	.	C	T	4053.93	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
14574	chrY	10049745	.	A	G	10756.79	PASS	AC=9;AF=0.136;AN=66;BaseQ
14575	chrY	10049793	.	C	G	12022.44	PASS	AC=20;AF=0.313;AN=64;BaseQ
14576	chrY	10049808	.	G	T	7420.75	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
14577	chrY	10049815	.	G	C	18185.39	PASS	AC=20;AF=0.313;AN=64;BaseQ
14578	chrY	10049827	.	C	G	8482.71	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
14579	chrY	10049843	.	T	C	23379.50	PASS	AC=20;AF=0.323;AN=62;BaseQ
14580	chrY	10049844	.	G	A	10913.97	PASS	AC=13;AF=0.210;AN=62;BaseQ
14581	chrY	10049858	.	A	T	24986.31	PASS	AC=19;AF=0.306;AN=62;BaseQ
14582	chrY	10049863	.	T	C	25813.73	PASS	AC=19;AF=0.297;AN=64;BaseQ
14583	chrY	10049920	.	A	G	12991.88	PASS	AC=26;AF=0.371;AN=70;BaseQ
14584	chrY	10049964	.	G	A	32966.60	PASS	AC=34;AF=0.486;AN=70;BaseQ
14585	chrY	10049992	.	T	C	37433.74	PASS	AC=35;AF=0.515;AN=68;BaseQ
14586	chrY	10049997	.	C	T	9521.33	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
14587	chrY	10050060	.	G	A,T	24236.49	PASS	AC=26,20;AF=0.406,0.313;A
14588	chrY	10050066	.	C	T	14984.92	PASS	AC=26;AF=0.382;AN=68;BaseQ
14589	chrY	10050069	.	T	C	30.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14590	chrY	10050074	.	C	G	30.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14591	chrY	10050076	.	C	T	32991.13	PASS	AC=30;AF=0.484;AN=62;BaseQ
14592	chrY	10050091	.	A	C	30701.95	PASS	AC=29;AF=0.483;AN=60;BaseQ

14593	chrY	10050110	.	G	C	29180.17	PASS	AC=25;AF=0.463;AN=54;BaseQ
14594	chrY	10050118	.	T	C	28437.83	PASS	AC=22;AF=0.500;AN=44;BaseQ
14595	chrY	10050130	.	T	G	10145.42	PASS	AC=12;AF=0.214;AN=56;BaseQ
14596	chrY	10050151	.	C	G	27227.19	PASS	AC=10;AF=0.357;AN=28;BaseQ
14597	chrY	10050166	.	A	G	27921.23	PASS	AC=10;AF=0.417;AN=24;BaseQ
14598	chrY	10050167	.	C	A	5947	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
14599	chrY	10050177	.	T	C	28516.30	PASS	AC=10;AF=0.455;AN=22;BaseQ
14600	chrY	10050178	.	T	C	28414.30	PASS	AC=10;AF=0.455;AN=22;BaseQ
14601	chrY	10050190	.	G	C	27960.47	PASS	AC=9;AF=0.375;AN=24;BaseQ
14602	chrY	10050227	.	G	A	28694.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
14603	chrY	10050231	.	T	G	29110.52	PASS	AC=9;AF=0.409;AN=22;BaseQ
14604	chrY	10050237	.	C	T	12507.78	PASS	AC=9;AF=0.375;AN=24;BaseQ
14605	chrY	10050262	.	C	G	29875.14	PASS	AC=9;AF=0.321;AN=28;BaseQ
14606	chrY	10050267	.	G	A	12095.17	PASS	AC=9;AF=0.300;AN=30;BaseQ
14607	chrY	10050273	.	A	G	29541.16	PASS	AC=9;AF=0.300;AN=30;BaseQ
14608	chrY	10050278	.	G	A	28929.76	PASS	AC=9;AF=0.300;AN=30;BaseQ
14609	chrY	10050283	.	C	T	13263.10	PASS	AC=9;AF=0.237;AN=38;BaseQ
14610	chrY	10050355	.	C	T	5641.72	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
14611	chrY	10050367	.	G	A	26751.13	PASS	AC=10;AF=0.167;AN=60;BaseQ
14612	chrY	10050388	.	T	C	27233.84	PASS	AC=9;AF=0.136;AN=66;BaseQ
14613	chrY	10050404	.	G	T	11848.66	PASS	AC=9;AF=0.136;AN=66;BaseQ
14614	chrY	10050417	.	A	T	10171.69	PASS	AC=9;AF=0.129;AN=70;BaseQ
14615	chrY	10050418	.	A	G	24598.07	PASS	AC=9;AF=0.129;AN=70;BaseQ
14616	chrY	10050428	.	C	T	23677.95	PASS	AC=9;AF=0.132;AN=68;BaseQ
14617	chrY	10050431	.	A	T	11262.39	PASS	AC=9;AF=0.129;AN=70;BaseQ
14618	chrY	10050445	.	C	T	22366.62	PASS	AC=9;AF=0.132;AN=68;BaseQ
14619	chrY	10050458	.	C	T	9250.36	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14620	chrY	10050460	.	A	G	22312.56	PASS	AC=9;AF=0.132;AN=68;BaseQ
14621	chrY	10050466	.	T	C	10481.24	PASS	AC=9;AF=0.129;AN=70;BaseQ
14622	chrY	10050481	.	A	T	20980.93	PASS	AC=9;AF=0.132;AN=68;BaseQ
14623	chrY	10050483	.	C	G	10144.39	PASS	AC=9;AF=0.129;AN=70;BaseQ
14624	chrY	10050489	.	C	T	21040.35	PASS	AC=9;AF=0.129;AN=70;BaseQ
14625	chrY	10050492	.	C	T	10451.93	PASS	AC=9;AF=0.129;AN=70;BaseQ
14626	chrY	10050493	.	A	C	20914.34	PASS	AC=9;AF=0.129;AN=70;BaseQ
14627	chrY	10050498	.	G	C	20863.50	PASS	AC=9;AF=0.129;AN=70;BaseQ
14628	chrY	10050507	.	C	T	7877.30	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14629	chrY	10050510	.	A	T	20806.40	PASS	AC=9;AF=0.129;AN=70;BaseQ
14630	chrY	10050513	.	C	T	10898.09	PASS	AC=9;AF=0.129;AN=70;BaseQ
14631	chrY	10050526	.	A	G	7333.51	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
14632	chrY	10050529	.	G	A	11367.57	PASS	AC=9;AF=0.129;AN=70;BaseQ
14633	chrY	10050546	.	T	G	20099.14	PASS	AC=9;AF=0.150;AN=60;BaseQ
14634	chrY	10050547	.	T	C	11364.23	PASS	AC=9;AF=0.136;AN=66;BaseQ
14635	chrY	10050555	.	C	A	6282.80	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
14636	chrY	10050557	.	A	G	11327.61	PASS	AC=9;AF=0.129;AN=70;BaseQ
14637	chrY	10050565	.	C	A	20003.09	PASS	AC=9;AF=0.145;AN=62;BaseQ
14638	chrY	10050580	.	A	C	18666.30	PASS	AC=9;AF=0.155;AN=58;BaseQ
14639	chrY	10050628	.	T	C	12973.65	PASS	AC=20;AF=0.313;AN=64;BaseQ
14640	chrY	10050631	.	T	C	5380.31	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
14641	chrY	10050658	.	T	A	1368.50	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
14642	chrY	10050659	.	G	T	1353.30	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
14643	chrY	10050667	.	T	A	1126.09	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
14644	chrY	10050670	.	G	T	1092.64	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
14645	chrY	10050671	.	C	T	1104.22	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
14646	chrY	10050679	.	T	C	4576.96	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
14647	chrY	10050684	.	C	A	764.62	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
14648	chrY	10050693	.	A	C	523.46	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
14649	chrY	10050694	.	A	T	523.27	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
14650	chrY	10050705	.	T	C	481.30	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
14651	chrY	10050706	.	G	A	5803.64	my_snp_filter	AC=8;AF=0.200;AN=40;BaseQ
14652	chrY	10050708	.	T	A	328.61	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
14653	chrY	10050712	.	C	A	5673.50	my_snp_filter	AC=8;AF=0.200;AN=40;BaseQ
14654	chrY	10050715	.	T	C	5605.29	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
14655	chrY	10050716	.	T	C	268.55	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
14656	chrY	10050717	.	T	A	271	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
14657	chrY	10050728	.	G	A	132.20	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
14658	chrY	10050742	.	A	G	4430.55	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
14659	chrY	10050755	.	A	G	4610.76	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
14660	chrY	10050776	.	C	T	4142.73	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
14661	chrY	10050798	.	T	C	3340.70	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
14662	chrY	10050799	.	G	T	3337.70	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
14663	chrY	10050822	.	T	G	2338.69	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
14664	chrY	10050833	.	T	A	2060.72	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
14665	chrY	10050848	.	T	G	1664.07	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
14666	chrY	10050849	.	T	G	1662.69	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
14667	chrY	10050855	.	A	C	1498.91	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
14668	chrY	10050858	.	C	G	1450.86	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ

14669	chrY	10050859	.	T	C	1447.86	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
14670	chrY	10050863	.	T	C	1360.10	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
14671	chrY	10050864	.	A	C	1354.10	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
14672	chrY	10050875	.	C	A	952.23	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
14673	chrY	10050886	.	T	C	709.64	my_snp_filter	AC=5;AF=0.147;AN=34;BaseQ
14674	chrY	10050888	.	G	T	485.02	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
14675	chrY	10050899	.	G	C	95.44	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
14676	chrY	10050928	.	A	G	3851.09	my_snp_filter	AC=11;AF=0.262;AN=42;BaseQ
14677	chrY	10050966	.	A	G	3722.40	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
14678	chrY	10051017	.	A	G	5768.49	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
14679	chrY	10051018	.	T	A	5768.41	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
14680	chrY	10051033	.	C	T	5863.25	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
14681	chrY	10051068	.	T	G	6683.39	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
14682	chrY	10051070	.	T	C	7054.27	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
14683	chrY	10051081	.	G	C	7449.97	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14684	chrY	10051095	.	C	T	7761.54	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14685	chrY	10051096	.	G	A	1003.26	PASS	AC=6;AF=0.086;AN=70;DP=856;FS=0.0
14686	chrY	10051098	.	G	C	3462.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14687	chrY	10051103	.	A	G	7846.85	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14688	chrY	10051111	.	T	C	7841.31	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14689	chrY	10051120	.	G	C	8021.61	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14690	chrY	10051124	.	A	C	8090.51	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14691	chrY	10051126	.	A	T	8222.63	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14692	chrY	10051131	.	C	T	8339.87	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14693	chrY	10051141	.	C	A	8585.34	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14694	chrY	10051161	.	T	G	7598.93	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14695	chrY	10051165	.	C	T	7256.40	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
14696	chrY	10051441	.	T	G	12327.70	PASS	AC=9;AF=0.346;AN=26;BaseQ
14697	chrY	10051453	.	C	A	12920.22	PASS	AC=9;AF=0.300;AN=30;BaseQ
14698	chrY	10051459	.	G	T	12882.22	PASS	AC=9;AF=0.300;AN=30;BaseQ
14699	chrY	10051494	.	G	A	11335.95	PASS	AC=10;AF=0.227;AN=44;BaseQ
14700	chrY	10051541	.	C	T	1128.46	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
14701	chrY	10051550	.	T	G	1207.80	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
14702	chrY	10051554	.	T	G	1290.95	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
14703	chrY	10051576	.	T	A	1214.94	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
14704	chrY	10051584	.	T	C	1247.71	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
14705	chrY	10051585	.	T	A	1288.75	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
14706	chrY	10051595	.	C	T	1324.72	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
14707	chrY	10051617	.	A	G	1234.54	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
14708	chrY	10051626	.	T	C	1228.30	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
14709	chrY	10051633	.	T	C	1183.16	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
14710	chrY	10051644	.	C	A	1259.87	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
14711	chrY	10051647	.	A	T	1299.21	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
14712	chrY	10051668	.	A	C	1340.58	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
14713	chrY	10051670	.	A	G	1343.53	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
14714	chrY	10051700	.	G	T	2018.06	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
14715	chrY	10051705	.	T	G	1972.04	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
14716	chrY	10051728	.	C	A	2045.07	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
14717	chrY	10051729	.	C	T	2045.07	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
14718	chrY	10051736	.	C	A	1961.38	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
14719	chrY	10051760	.	A	T	1662.53	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
14720	chrY	10052094	.	G	T	12764.32	PASS	AC=17;AF=0.243;AN=70;BaseQ
14721	chrY	10052103	.	A	T	13402.73	PASS	AC=17;AF=0.243;AN=70;BaseQ
14722	chrY	10052124	.	C	T	12513.73	PASS	AC=15;AF=0.214;AN=70;BaseQ
14723	chrY	10052132	.	C	T	12606.56	PASS	AC=15;AF=0.214;AN=70;BaseQ
14724	chrY	10052153	.	A	G	3968.32	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14725	chrY	10052157	.	A	C	12360.79	PASS	AC=16;AF=0.229;AN=70;BaseQ
14726	chrY	10052167	.	T	C	12281.89	PASS	AC=16;AF=0.229;AN=70;BaseQ
14727	chrY	10052189	.	C	T	12392.55	PASS	AC=16;AF=0.229;AN=70;BaseQ
14728	chrY	10052197	.	T	A	12318.28	PASS	AC=16;AF=0.229;AN=70;BaseQ
14729	chrY	10052199	.	T	A	12233.28	PASS	AC=16;AF=0.229;AN=70;BaseQ
14730	chrY	10052219	.	A	G	11393.47	PASS	AC=17;AF=0.243;AN=70;BaseQ
14731	chrY	10052245	.	C	T	11685.16	PASS	AC=19;AF=0.279;AN=68;BaseQ
14732	chrY	10052250	.	C	T	11635.18	PASS	AC=20;AF=0.294;AN=68;BaseQ
14733	chrY	10052291	.	C	G	11941.19	PASS	AC=14;AF=0.206;AN=68;BaseQ
14734	chrY	10052308	.	T	C	12110.80	PASS	AC=13;AF=0.210;AN=62;BaseQ
14735	chrY	10052310	.	C	T	12095.85	PASS	AC=13;AF=0.217;AN=60;BaseQ
14736	chrY	10052314	.	C	A	11931	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
14737	chrY	10052329	.	A	C	10956.59	PASS	AC=11;AF=0.190;AN=58;BaseQ
14738	chrY	10052330	.	C	T	10998.59	PASS	AC=11;AF=0.190;AN=58;BaseQ
14739	chrY	10052339	.	A	T	10306.35	PASS	AC=10;AF=0.161;AN=62;BaseQ
14740	chrY	10052353	.	C	T	9509.67	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
14741	chrY	10052354	.	T	G	9471.04	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
14742	chrY	10052412	.	T	G	7909.74	my_snp_filter	AC=11;AF=0.289;AN=38;BaseQ
14743	chrY	10052414	.	T	A	7980.01	my_snp_filter	AC=11;AF=0.275;AN=40;BaseQ
14744	chrY	10052417	.	C	T	2750.76	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=

14745	chrY	10052443	.	C	T	3819.47	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
14746	chrY	10052487	.	G	A	7403.71	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
14747	chrY	10052488	.	A	C	7400.71	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
14748	chrY	10052503	.	T	A	7322.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
14749	chrY	10052505	.	A	G	7268.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
14750	chrY	10052542	.	G	T	6059.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14751	chrY	10052550	.	G	C	5906.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14752	chrY	10052551	.	G	A	5889.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14753	chrY	10052566	.	C	T	3933.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14754	chrY	10052600	.	G	T	1234.38	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
14755	chrY	10052627	.	T	A	652.92	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
14756	chrY	10052639	.	C	A	761.28	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
14757	chrY	10052645	.	G	C	627.39	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
14758	chrY	10053144	.	C	G	766.20	PASS	AC=6;AF=0.333;AN=18;DP=136;FS=0.0
14759	chrY	10054039	.	T	C	520.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14760	chrY	10054041	.	C	T	425.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14761	chrY	10054049	.	C	T	47.48	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14762	chrY	10054052	.	C	A	106.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14763	chrY	10054058	.	T	A	715.76	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14764	chrY	10054078	.	T	A	1027.22	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
14765	chrY	10054082	.	A	G	37.74	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14766	chrY	10054091	.	A	G	37.46	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14767	chrY	10054109	.	C	T	1025.81	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
14768	chrY	10054115	.	A	G	40.61	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
14769	chrY	10054131	.	A	T	89.34	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
14770	chrY	10054143	.	G	A	1217.40	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
14771	chrY	10054149	.	G	T	1155.54	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
14772	chrY	10054156	.	G	T	1173.35	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
14773	chrY	10054157	.	T	G	1173.34	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
14774	chrY	10054162	.	G	A	1140.51	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
14775	chrY	10054185	.	T	A	1043.74	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
14776	chrY	10054208	.	T	C	1306.41	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
14777	chrY	10054214	.	C	G	1148.17	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
14778	chrY	10054221	.	A	G	68.81	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
14779	chrY	10054247	.	A	T	2349.72	PASS	AC=16;AF=0.571;AN=28;BaseQRankSum=
14780	chrY	10054258	.	C	T	1958.11	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
14781	chrY	10054279	.	C	T	2071.65	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
14782	chrY	10054290	.	G	C,A	1307.93	PASS	AC=4,3;AF=0.095,0.071;AN=42;BaseQ
14783	chrY	10054303	.	A	G	67.47	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
14784	chrY	10054307	.	A	G	1407.88	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
14785	chrY	10054312	.	A	G	161.15	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
14786	chrY	10054330	.	G	A	348.42	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
14787	chrY	10054340	.	A	G	1919.15	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
14788	chrY	10054344	.	A	G	87.99	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
14789	chrY	10054351	.	C	T	2645.86	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
14790	chrY	10054359	.	C	T	472.16	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
14791	chrY	10054381	.	G	A	420.19	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
14792	chrY	10054386	.	C	G	2074.64	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
14793	chrY	10054388	.	G	A	1625.90	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQ
14794	chrY	10054393	.	A	G	427.37	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
14795	chrY	10054403	.	T	C	419	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
14796	chrY	10054406	.	A	T	304.09	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
14797	chrY	10054425	.	C	T	1394.35	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
14798	chrY	10054430	.	A	C	1811.30	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
14799	chrY	10054435	.	G	A	52.72	PASS	AC=2;AF=0.063;AN=32;DP=538;FS=0.0
14800	chrY	10054436	.	C	T	82.14	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14801	chrY	10054438	.	C	T	1656.98	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
14802	chrY	10054483	.	G	C	31.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14803	chrY	10054486	.	A	G	265.64	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
14804	chrY	10054519	.	C	G	8529.38	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
14805	chrY	10054528	.	G	A	8490.11	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
14806	chrY	10054531	.	T	C	8522.75	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
14807	chrY	10054534	.	T	C	8611.97	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
14808	chrY	10054542	.	T	C	8260.98	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
14809	chrY	10054591	.	T	C	11845.52	PASS	AC=35;AF=0.500;AN=70;BaseQ
14810	chrY	10054598	.	T	C	10921.52	PASS	AC=35;AF=0.500;AN=70;BaseQ
14811	chrY	10054686	.	G	C	9417.36	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
14812	chrY	10054761	.	T	C	2514.28	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
14813	chrY	10054859	.	T	A	57.66	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14814	chrY	10054867	.	A	T	55.87	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14815	chrY	10054898	.	T	G	78.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
14816	chrY	10054901	.	G	A	417.27	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
14817	chrY	10054909	.	C	T	1079.82	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
14818	chrY	10054919	.	A	G	1724.45	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ
14819	chrY	10054920	.	G	A	432.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14820	chrY	10054933	.	T	A	1451.55	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ

14821	chrY	10054951	.	C	T	562.60	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
14822	chrY	10054963	.	T	A	243.60	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
14823	chrY	10054984	.	C	T	264.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14824	chrY	10054993	.	A	G	213.39	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14825	chrY	10055011	.	C	A	145.71	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14826	chrY	10055012	.	A	G	145.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14827	chrY	10055029	.	C	A	60.50	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
14828	chrY	10055062	.	A	G	59.54	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
14829	chrY	10055102	.	T	C	38.37	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
14830	chrY	10055135	.	C	T	466.92	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
14831	chrY	10055153	.	A	G	49.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14832	chrY	10055167	.	G	T	2483.06	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
14833	chrY	10055169	.	T	A	33.72	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
14834	chrY	10055170	.	A	G	6232.92	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum=
14835	chrY	10055173	.	C	G	39.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14836	chrY	10055201	.	C	T	92.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14837	chrY	10055207	.	C	T	11152.85	PASS	AC=18;AF=0.333;AN=54;BaseQ
14838	chrY	10055211	.	G	T	36.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14839	chrY	10055218	.	A	C	1473.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14840	chrY	10055220	.	G	T	538.55	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
14841	chrY	10055226	.	G	A	502.57	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14842	chrY	10055233	.	T	C	398.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
14843	chrY	10055236	.	T	G	11518.42	PASS	AC=18;AF=0.333;AN=54;BaseQ
14844	chrY	10055239	.	C	T	100.21	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
14845	chrY	10055245	.	G	C	59.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14846	chrY	10055248	.	G	A	3023.13	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14847	chrY	10055250	.	C	T	3023.58	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14848	chrY	10055252	.	G	A	11122.20	PASS	AC=15;AF=0.259;AN=58;BaseQ
14849	chrY	10055255	.	G	A	3021.94	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14850	chrY	10055264	.	G	T	2600.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14851	chrY	10055267	.	G	A	2432.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
14852	chrY	10055271	.	T	C	11958.98	PASS	AC=9;AF=0.150;AN=60;BaseQ
14853	chrY	10055272	.	A	G	65.39	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
14854	chrY	10055281	.	A	G	74.54	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
14855	chrY	10055297	.	T	C	623.21	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
14856	chrY	10055328	.	C	T	9447.44	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
14857	chrY	10055341	.	C	A	3400.86	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
14858	chrY	10055345	.	C	G	2219.59	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
14859	chrY	10055353	.	C	A	1469.12	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
14860	chrY	10055354	.	A	T	10546.90	PASS	AC=7;AF=0.130;AN=54;BaseQ
14861	chrY	10055361	.	A	G	411.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14862	chrY	10055367	.	C	A	1177.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14863	chrY	10055373	.	G	A	3927.86	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14864	chrY	10055401	.	T	C	7306.30	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
14865	chrY	10055416	.	G	A	206.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14866	chrY	10055417	.	G	T	10308.07	PASS	AC=23;AF=0.329;AN=70;BaseQ
14867	chrY	10055424	.	C	T	13892.77	PASS	AC=28;AF=0.412;AN=68;BaseQ
14868	chrY	10055448	.	A	G	4600.59	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
14869	chrY	10055461	.	G	T	721.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
14870	chrY	10055473	.	T	A	13411.63	PASS	AC=27;AF=0.386;AN=70;BaseQ
14871	chrY	10055491	.	T	C	3894.40	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
14872	chrY	10055492	.	G	A	3895.57	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
14873	chrY	10055507	.	G	A	5676.80	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
14874	chrY	10055508	.	T	C	5669.63	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
14875	chrY	10055539	.	C	T	3180.04	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
14876	chrY	10055559	.	A	C	2727.20	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
14877	chrY	10055572	.	T	C	586.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14878	chrY	10055573	.	G	A	583.74	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
14879	chrY	10055574	.	C	T	3064.74	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
14880	chrY	10055575	.	G	A,T	706.98	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
14881	chrY	10055585	.	A	T	433.04	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
14882	chrY	10055638	.	A	G	64.16	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
14883	chrY	10055640	.	G	A	1200.31	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
14884	chrY	10055645	.	C	A	1912.82	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
14885	chrY	10055658	.	C	G	1350.39	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
14886	chrY	10055670	.	T	C	1162.45	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
14887	chrY	10055703	.	T	C	40.40	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
14888	chrY	10055708	.	A	T	45.57	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
14889	chrY	10055767	.	G	T	40.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
14890	chrY	10055769	.	A	T	32.52	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
14891	chrY	10055778	.	A	G	89.98	PASS	AC=2;AF=0.031;AN=64;DP=288;FS=0.0
14892	chrY	10055780	.	A	G	89.78	PASS	AC=2;AF=0.029;AN=68;DP=295;FS=0.0
14893	chrY	10055988	.	G	A	131.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14894	chrY	10055993	.	T	C	249.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14895	chrY	10056016	.	G	T	290.47	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
14896	chrY	10056042	.	C	G	251.51	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=

14897	chrY	10056072	.	T	G	474.15	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
14898	chrY	10056083	.	A	G	387.89	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
14899	chrY	10056088	.	C	T	385.41	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
14900	chrY	10056093	.	T	C	427.76	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
14901	chrY	10056117	.	C	T	585.25	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
14902	chrY	10056132	.	G	A	580.23	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
14903	chrY	10056141	.	G	A	620.18	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
14904	chrY	10056149	.	C	T	674.21	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
14905	chrY	10056158	.	T	C	674.39	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
14906	chrY	10056186	.	C	T	564.67	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
14907	chrY	10056187	.	A	G	561.67	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
14908	chrY	10056204	.	A	G	433.70	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
14909	chrY	10056213	.	C	G	385.25	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
14910	chrY	10056221	.	A	T	353.51	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
14911	chrY	10056246	.	T	C	207.91	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
14912	chrY	10056256	.	T	C	286.53	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14913	chrY	10056259	.	C	T	328.16	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14914	chrY	10056260	.	A	G	327.78	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14915	chrY	10056268	.	T	G	234.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14916	chrY	10056270	.	A	C	235.12	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14917	chrY	10056291	.	T	G	282.11	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14918	chrY	10056303	.	A	C	447.76	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14919	chrY	10056304	.	T	G	444.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14920	chrY	10056308	.	G	C	447.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14921	chrY	10056319	.	A	G	616.39	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
14922	chrY	10056327	.	A	T	655.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14923	chrY	10056330	.	A	G	687.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14924	chrY	10056331	.	G	C	687.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
14925	chrY	10056372	.	G	A	5299.13	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
14926	chrY	10056383	.	A	G	250	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14927	chrY	10056385	.	T	A	250.10	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
14928	chrY	10056402	.	T	C	8843.41	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
14929	chrY	10056404	.	T	A	8913.61	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
14930	chrY	10056412	.	T	G	8916.31	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
14931	chrY	10056466	.	C	G	4217.70	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
14932	chrY	10056467	.	G	T	4510.39	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
14933	chrY	10056487	.	A	C	244.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
14934	chrY	10056492	.	C	T	6367.12	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
14935	chrY	10056511	.	T	A	7225.99	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
14936	chrY	10056562	.	G	T	10047.26	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
14937	chrY	10056572	.	T	C	10418.05	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
14938	chrY	10056581	.	T	A	10137.35	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
14939	chrY	10056586	.	T	C	10169.03	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
14940	chrY	10056611	.	T	A	10678.24	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
14941	chrY	10056630	.	G	A	11152.97	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
14942	chrY	10056636	.	T	C	10990.97	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
14943	chrY	10056648	.	C	A	10876.49	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
14944	chrY	10056658	.	T	A	11252.18	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
14945	chrY	10056664	.	A	C	11131.29	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
14946	chrY	10056670	.	G	A	11161.01	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
14947	chrY	10056677	.	T	G	11071.40	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=
14948	chrY	10056746	.	T	A	19039.62	my_snp_filter	AC=34;AF=0.486;AN=
14949	chrY	10056762	.	T	G	23826.64	my_snp_filter	AC=34;AF=0.500;AN=
14950	chrY	10056809	.	C	A	2171.50	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
14951	chrY	10056812	.	T	C	55977.13	PASS	AC=35;AF=0.530;AN=66;BaseQRankSum=
14952	chrY	10056815	.	G	A	4011.24	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14953	chrY	10056818	.	G	C	39908.18	PASS	AC=26;AF=0.500;AN=52;BaseQRankSum=
14954	chrY	10056823	.	T	A	40451.07	PASS	AC=26;AF=0.500;AN=52;BaseQRankSum=
14955	chrY	10056826	.	C	A	507.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
14956	chrY	10056828	.	A	T	4667.88	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
14957	chrY	10056850	.	G	C	14797.21	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14958	chrY	10056854	.	A	G	14342.09	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14959	chrY	10056858	.	C	T	13815.42	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
14960	chrY	10056860	.	G	T	4872.57	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
14961	chrY	10056869	.	A	G	24981.82	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=
14962	chrY	10056876	.	C	T	4770.79	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
14963	chrY	10056879	.	C	G	23348.96	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=
14964	chrY	10056891	.	T	G	9785.49	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
14965	chrY	10056899	.	A	C	17889.96	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=
14966	chrY	10056912	.	C	A	18824.65	PASS	AC=20;AF=0.455;AN=44;BaseQRankSum=
14967	chrY	10056921	.	G	A	3114.50	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14968	chrY	10056926	.	C	T	16062.24	PASS	AC=17;AF=0.370;AN=46;BaseQRankSum=
14969	chrY	10056946	.	G	A	587.14	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
14970	chrY	10056955	.	C	T	3647.08	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
14971	chrY	10056956	.	G	A	5303.74	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
14972	chrY	10056968	.	C	G	4921.24	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=

14973	chrY	10056978	.	T	A	12444.15	PASS	AC=11;AF=0.275;AN=40;BaseQ
14974	chrY	10056993	.	C	G	6570.64	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
14975	chrY	10056994	.	A	G	11952.38	PASS	AC=13;AF=0.325;AN=40;BaseQ
14976	chrY	10056997	.	T	A	4067.57	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
14977	chrY	10057045	.	C	T	54.53	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
14978	chrY	10057046	.	C	T	5495.25	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
14979	chrY	10057053	.	C	A	47.27	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
14980	chrY	10057079	.	A	T	7026.19	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
14981	chrY	10057086	.	T	A	167.26	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
14982	chrY	10057097	.	C	A	12539.25	my_snp_filter	AC=22;AF=0.344;AN=
14983	chrY	10057109	.	T	C	361.64	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
14984	chrY	10057128	.	A	G	545.99	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14985	chrY	10057151	.	C	T	113.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14986	chrY	10057155	.	A	T	778.94	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
14987	chrY	10057156	.	C	T	98.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14988	chrY	10057157	.	A	G	1221.16	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
14989	chrY	10057159	.	G	A	97.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
14990	chrY	10057160	.	A	G	586.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14991	chrY	10057161	.	A	G	759.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
14992	chrY	10057165	.	T	A	69.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14993	chrY	10057167	.	T	G	1091.86	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
14994	chrY	10057170	.	A	T	75.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14995	chrY	10057171	.	G	T	402.51	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
14996	chrY	10057177	.	C	T	87.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
14997	chrY	10057180	.	G	C	571.69	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
14998	chrY	10057192	.	C	A	1357.66	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQ
14999	chrY	10057201	.	A	T	704.60	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15000	chrY	10057208	.	T	C	432.81	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
15001	chrY	10057213	.	A	G	414.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15002	chrY	10057219	.	G	A	289.68	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
15003	chrY	10057334	.	C	T	123.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15004	chrY	10057335	.	G	C	123.16	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15005	chrY	10057344	.	G	C	240.25	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15006	chrY	10057408	.	G	A	2569.56	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15007	chrY	10057421	.	C	T	35.89	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
15008	chrY	10057430	.	A	T	71.75	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
15009	chrY	10057434	.	A	G	4347.84	PASS	AC=12;AF=0.261;AN=46;BaseQRankSum=
15010	chrY	10057450	.	T	A	2160.20	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
15011	chrY	10057458	.	G	A	1782.66	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
15012	chrY	10057468	.	C	G,T	3172.24	PASS	AC=7,2;AF=0.140,0.040;AN=50;BaseQ
15013	chrY	10057486	.	C	T	6571.64	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
15014	chrY	10057488	.	C	T	830.22	PASS	AC=16;AF=0.421;AN=38;DP=419;FS=0.
15015	chrY	10057518	.	T	G	5883.20	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
15016	chrY	10057526	.	C	T	34.93	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
15017	chrY	10057528	.	T	A	5819.22	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15018	chrY	10057545	.	G	A	1886.94	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15019	chrY	10057602	.	T	A	855.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15020	chrY	10057615	.	G	T	729.54	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15021	chrY	10057623	.	T	C	589.53	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15022	chrY	10057632	.	C	G	479.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15023	chrY	10057633	.	T	G	479.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15024	chrY	10057647	.	C	A	323.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15025	chrY	10057648	.	G	A	282.09	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15026	chrY	10057676	.	C	T	210.27	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
15027	chrY	10058653	.	T	A	680.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
15028	chrY	10058913	.	C	T	3732.87	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
15029	chrY	10059440	.	A	G	159.13	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
15030	chrY	10059472	.	T	A,C	5874.12	PASS	AC=8,15;AF=0.125,0.234;AN=64;BaseQ
15031	chrY	10059494	.	C	T	6589.64	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
15032	chrY	10059499	.	T	C	3414.60	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
15033	chrY	10059507	.	A	T	3462.71	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
15034	chrY	10059515	.	C	A	11861.79	PASS	AC=22;AF=0.344;AN=64;BaseQ
15035	chrY	10059533	.	T	G	1932.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15036	chrY	10059544	.	A	G	4454.37	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
15037	chrY	10059556	.	C	A	3530.81	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
15038	chrY	10059561	.	A	C	9285.84	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
15039	chrY	10059567	.	G	A	8833.62	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
15040	chrY	10059574	.	C	T	8209.51	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
15041	chrY	10059581	.	T	C	8134.61	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
15042	chrY	10059595	.	G	A	7793.53	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
15043	chrY	10059610	.	A	G	7032.90	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
15044	chrY	10059617	.	A	C	6817.91	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
15045	chrY	10059636	.	G	A	2909.80	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
15046	chrY	10059645	.	T	C	7327.52	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
15047	chrY	10059649	.	G	T	2766.26	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
15048	chrY	10059679	.	G	A	1560.38	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=

15049	chrY	10059681	.	G	A	9975.60	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
15050	chrY	10059692	.	G	T	10807.34	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
15051	chrY	10059698	.	C	A	11365.99	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
15052	chrY	10059717	.	C	T	12578.73	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
15053	chrY	10059791	.	C	T	3413.87	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15054	chrY	10059794	.	C	T	3597.26	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
15055	chrY	10059798	.	A	C	7890.17	my_snp_filter	AC=19;AF=0.306;AN=62;BaseQRankSum=
15056	chrY	10059822	.	C	T	2280.05	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
15057	chrY	10059823	.	C	T	5182.37	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
15058	chrY	10059836	.	G	T	3846.85	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
15059	chrY	10059837	.	C	A	1403.42	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
15060	chrY	10059840	.	C	T	1701.13	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
15061	chrY	10059846	.	G	T	80.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15062	chrY	10059850	.	A	G	137.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15063	chrY	10059851	.	A	G	44.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15064	chrY	10059864	.	G	A	51.18	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
15065	chrY	10059873	.	A	T	287.18	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
15066	chrY	10059881	.	A	G	248.34	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
15067	chrY	10059897	.	T	C	156.32	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
15068	chrY	10059899	.	G	T	108.90	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
15069	chrY	10059912	.	G	T	161.16	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
15070	chrY	10059918	.	C	A	112.83	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
15071	chrY	10059928	.	C	T	112.71	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
15072	chrY	10059943	.	A	C	63.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
15073	chrY	10059953	.	T	G	59.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15074	chrY	10059954	.	C	T	59.47	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15075	chrY	10060186	.	C	A	523.91	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15076	chrY	10060199	.	C	T	286.16	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQRankSum=
15077	chrY	10060221	.	T	C	5145.30	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
15078	chrY	10060227	.	T	C	618.24	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
15079	chrY	10060236	.	C	T	605.96	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
15080	chrY	10060245	.	T	G	7144.49	my_snp_filter	AC=14;AF=0.219;AN=64;BaseQRankSum=
15081	chrY	10060255	.	G	A	7561.57	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
15082	chrY	10060268	.	A	C	2262.50	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
15083	chrY	10060274	.	C	T	2216.52	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15084	chrY	10060285	.	G	A	5698.55	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15085	chrY	10060306	.	A	G	4820.70	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
15086	chrY	10060320	.	C	T	17050.93	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
15087	chrY	10060342	.	A	T	357.27	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15088	chrY	10060354	.	A	G	1656.10	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
15089	chrY	10060361	.	T	C	1749.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
15090	chrY	10060366	.	G	A	1664.23	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
15091	chrY	10060379	.	A	T	1192.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
15092	chrY	10060385	.	T	A	1075.86	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15093	chrY	10060417	.	T	G	1946.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15094	chrY	10060418	.	C	A	1946.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15095	chrY	10060434	.	A	G	3510.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15096	chrY	10060441	.	G	A	3994.60	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15097	chrY	10060442	.	A	T	3118.69	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15098	chrY	10060445	.	A	T	522.29	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15099	chrY	10060466	.	G	C	5237.37	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15100	chrY	10060492	.	A	G	6679.87	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15101	chrY	10060499	.	C	T	3517.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15102	chrY	10060510	.	A	G	7368.96	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15103	chrY	10060513	.	T	C	1900.86	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15104	chrY	10060543	.	T	G	4508.14	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
15105	chrY	10060558	.	T	A	8405.66	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
15106	chrY	10060561	.	A	G	4999.12	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15107	chrY	10060582	.	T	G	5171.42	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15108	chrY	10060592	.	T	G	5214.82	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15109	chrY	10060597	.	C	A, T	6361.63	PASS	AC=6, 4;AF=0.100, 0.067;AN=60;BaseQRankSum=
15110	chrY	10060599	.	A	C	10489.81	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
15111	chrY	10060603	.	C	G	10385.78	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
15112	chrY	10060614	.	A	C	3778.40	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
15113	chrY	10060631	.	A	G	33.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15114	chrY	10060641	.	A	C	41.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15115	chrY	10060645	.	A	C	14390.48	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
15116	chrY	10060646	.	T	C	4810.80	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
15117	chrY	10060650	.	C	T	88.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15118	chrY	10060658	.	A	T	7905.97	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
15119	chrY	10060686	.	A	G	18727.93	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
15120	chrY	10060688	.	C	T	2993.32	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
15121	chrY	10060700	.	G	C	24419.19	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
15122	chrY	10060708	.	A	C	25741.77	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
15123	chrY	10060709	.	C	T	5201.64	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
15124	chrY	10060711	.	C	T	544.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=

15125	chrY	10060739	.	C	A	530.30	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15126	chrY	10060748	.	A	T	25725.68	PASS	AC=27;AF=0.409;AN=66;BaseQ
15127	chrY	10060758	.	T	G	23945.83	PASS	AC=20;AF=0.313;AN=64;BaseQ
15128	chrY	10060761	.	A	C	8373.13	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15129	chrY	10060762	.	T	C	6801.75	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
15130	chrY	10060774	.	T	C	1304.72	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15131	chrY	10060782	.	A	C,G	8147.41	PASS	AC=15,1;AF=0.221,0.015;AN=68;BaseQ
15132	chrY	10060784	.	A	G	21788.04	PASS	AC=19;AF=0.317;AN=60;BaseQ
15133	chrY	10060791	.	C	T	21081.79	PASS	AC=19;AF=0.306;AN=62;BaseQ
15134	chrY	10060817	.	C	T	8475.64	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
15135	chrY	10060820	.	T	C	708.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15136	chrY	10060838	.	A	T,G	9963.50	PASS	AC=12,3;AF=0.182,0.045;AN=66;BaseQ
15137	chrY	10060845	.	C	T	832.03	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
15138	chrY	10060851	.	C	T	9375.36	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
15139	chrY	10060859	.	G	A	10626.83	PASS	AC=18;AF=0.257;AN=70;BaseQ
15140	chrY	10060870	.	T	C	22932.71	PASS	AC=19;AF=0.271;AN=70;BaseQ
15141	chrY	10060877	.	C	T	23560.30	PASS	AC=22;AF=0.324;AN=68;BaseQ
15142	chrY	10060885	.	T	A	22840.59	PASS	AC=22;AF=0.324;AN=68;BaseQ
15143	chrY	10060887	.	T	C	22550.39	PASS	AC=22;AF=0.324;AN=68;BaseQ
15144	chrY	10060893	.	C	T	299.80	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15145	chrY	10060909	.	T	G	20785.75	PASS	AC=15;AF=0.242;AN=62;BaseQ
15146	chrY	10060929	.	A	G	21080.43	PASS	AC=13;AF=0.217;AN=60;BaseQ
15147	chrY	10060934	.	G	C	21060.69	PASS	AC=13;AF=0.217;AN=60;BaseQ
15148	chrY	10060940	.	A	C	9045.06	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
15149	chrY	10060945	.	T	A	21206.11	PASS	AC=13;AF=0.232;AN=56;BaseQ
15150	chrY	10060948	.	G	A	8799.02	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
15151	chrY	10060954	.	T	G	3111.08	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
15152	chrY	10060955	.	T	G	20516.57	PASS	AC=13;AF=0.241;AN=54;BaseQ
15153	chrY	10061030	.	G	C	12010.89	PASS	AC=16;AF=0.308;AN=52;BaseQ
15154	chrY	10061058	.	T	C	11224.55	PASS	AC=13;AF=0.250;AN=52;BaseQ
15155	chrY	10061067	.	A	T	11662	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
15156	chrY	10061103	.	T	A	14334.16	PASS	AC=25;AF=0.379;AN=66;BaseQ
15157	chrY	10061117	.	A	G	3233.06	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
15158	chrY	10061125	.	C	A	61.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
15159	chrY	10061133	.	G	C	43.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
15160	chrY	10061142	.	A	G	27477.80	PASS	AC=25;AF=0.391;AN=64;BaseQ
15161	chrY	10061162	.	T	C	6884.99	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
15162	chrY	10061174	.	A	T	33475.03	PASS	AC=26;AF=0.394;AN=66;BaseQ
15163	chrY	10061197	.	G	A	33086.95	PASS	AC=26;AF=0.419;AN=62;BaseQ
15164	chrY	10061201	.	C	T	12450	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
15165	chrY	10061202	.	A	G	32854.96	PASS	AC=26;AF=0.419;AN=62;BaseQ
15166	chrY	10061211	.	A	T	32604.22	PASS	AC=26;AF=0.406;AN=64;BaseQ
15167	chrY	10061225	.	T	A	12538.80	PASS	AC=19;AF=0.271;AN=70;BaseQ
15168	chrY	10061232	.	A	G	30028.98	PASS	AC=26;AF=0.394;AN=66;BaseQ
15169	chrY	10061247	.	A	G	10831.52	PASS	AC=18;AF=0.257;AN=70;BaseQ
15170	chrY	10061251	.	G	A	13392.94	PASS	AC=21;AF=0.300;AN=70;BaseQ
15171	chrY	10061276	.	G	A	22159.48	PASS	AC=24;AF=0.353;AN=68;BaseQ
15172	chrY	10061291	.	C	G	279.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15173	chrY	10061318	.	C	T	512.53	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15174	chrY	10061321	.	C	A	514.07	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15175	chrY	10061323	.	G	A	169.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15176	chrY	10061329	.	A	T	619.40	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
15177	chrY	10061334	.	A	G	119.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15178	chrY	10061337	.	T	G	78.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15179	chrY	10061348	.	A	C	367.63	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
15180	chrY	10061355	.	C	A	123.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15181	chrY	10061358	.	T	C	85.60	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15182	chrY	10061366	.	A	G	54.51	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
15183	chrY	10061428	.	G	C	4268.91	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
15184	chrY	10061438	.	G	T	4919.56	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
15185	chrY	10061446	.	T	C	5499.06	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
15186	chrY	10061454	.	T	G	2472.76	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
15187	chrY	10061455	.	G	T	1339.60	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
15188	chrY	10061475	.	C	A	7173.70	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
15189	chrY	10061479	.	T	A	2787.52	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
15190	chrY	10061483	.	A	T	3626.97	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15191	chrY	10061547	.	C	A	10606.94	PASS	AC=9;AF=0.237;AN=38;BaseQ
15192	chrY	10061586	.	C	A	13643.70	PASS	AC=9;AF=0.346;AN=26;BaseQ
15193	chrY	10061590	.	C	T	8091.75	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
15194	chrY	10061591	.	T	A	13654.68	PASS	AC=9;AF=0.321;AN=28;BaseQ
15195	chrY	10061602	.	A	G	2743.87	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
15196	chrY	10061612	.	C	G	7853.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
15197	chrY	10061618	.	G	T	10980.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
15198	chrY	10061624	.	G	T	7000.23	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15199	chrY	10061632	.	C	A	9766.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15200	chrY	10061648	.	T	C,*	3095.41	PASS	AC=6,2;AF=0.333,0.111;AN=18;BaseQ

15201	chrY	10061650	.	C	T	1188.67	PASS	AC=7;AF=0.500;AN=14;BaseQRankSum=
15202	chrY	10061651	.	C	T	5997.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15203	chrY	10061668	.	T	A	5785.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15204	chrY	10061669	.	A	T	6131.78	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15205	chrY	10061670	.	C	G	6676.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15206	chrY	10061674	.	C	T	7024.78	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15207	chrY	10061677	.	T	A	58.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
15208	chrY	10061685	.	T	C	6201.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15209	chrY	10061690	.	T	C	6145.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15210	chrY	10061716	.	C	A	7701.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15211	chrY	10061766	.	C	T	4679.68	PASS	AC=13;AF=0.464;AN=28;BaseQRankSum=
15212	chrY	10061810	.	C	A,*	3049.85	PASS	AC=5,4;AF=0.278,0.222;AN=18;BaseQ
15213	chrY	10061852	.	T	C,*	2801.85	PASS	AC=5,4;AF=0.208,0.167;AN=24;BaseQ
15214	chrY	10061854	.	C	T,*	2760.45	PASS	AC=5,4;AF=0.227,0.182;AN=22;BaseQ
15215	chrY	10061872	.	G	A,*	2232.40	PASS	AC=3,4;AF=0.188,0.250;AN=16;BaseQ
15216	chrY	10061881	.	T	T,*	1929.62	PASS	AC=3,3;AF=0.167,0.167;AN=18;BaseQ
15217	chrY	10061889	.	A	G,*	1651.27	PASS	AC=3,3;AF=0.188,0.188;AN=16;BaseQ
15218	chrY	10061894	.	G	A,*	1450.81	PASS	AC=3,3;AF=0.214,0.214;AN=14;BaseQ
15219	chrY	10061899	.	A	G,*	1419.95	PASS	AC=3,3;AF=0.214,0.214;AN=14;BaseQ
15220	chrY	10061902	.	G	T,*	1333.39	PASS	AC=3,3;AF=0.188,0.188;AN=16;BaseQ
15221	chrY	10062129	.	A	T	1100.38	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15222	chrY	10062130	.	C	G	1100.62	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15223	chrY	10062133	.	T	A	1067.22	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15224	chrY	10062135	.	C	G	1063.58	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
15225	chrY	10062140	.	C	A	979.10	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
15226	chrY	10062142	.	C	G	982.29	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
15227	chrY	10062174	.	C	G	389.88	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15228	chrY	10062176	.	G	C	388.69	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15229	chrY	10062179	.	G	A	386.89	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15230	chrY	10062186	.	G	T	103.32	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15231	chrY	10062189	.	G	T	102.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15232	chrY	10062412	.	A	C	271.24	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
15233	chrY	10062414	.	G	C	78.51	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15234	chrY	10062483	.	T	C,*	606.81	PASS	AC=7,1;AF=0.103,0.015;AN=68;BaseQ
15235	chrY	10062484	.	G	A	759.18	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
15236	chrY	10062501	.	C	T	740.85	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15237	chrY	10062502	.	T	C	736.97	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15238	chrY	10062504	.	A	C	687.54	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15239	chrY	10062512	.	T	A	722.11	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15240	chrY	10062539	.	A	T	479.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15241	chrY	10062556	.	C	A	377.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15242	chrY	10062563	.	G	C	370.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15243	chrY	10062586	.	G	A	133.40	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
15244	chrY	10062593	.	G	A	66.54	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
15245	chrY	10062719	.	G	C	8734.09	PASS	AC=66;AF=1.00;AN=66;DP=328;FS=0.0
15246	chrY	10062894	.	T	A	80.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15247	chrY	10062896	.	G	A	74.23	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15248	chrY	10062901	.	T	A	73.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15249	chrY	10063130	.	G	A	137.80	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
15250	chrY	10063132	.	G	C	137.82	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
15251	chrY	10063400	.	T	C	250.56	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
15252	chrY	10063401	.	G	A	245.82	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
15253	chrY	10063409	.	G	A	232.76	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
15254	chrY	10063414	.	C	G	1423.27	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
15255	chrY	10063421	.	T	C	145.78	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
15256	chrY	10063424	.	A	T	3104.53	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
15257	chrY	10063432	.	C	T	121.57	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15258	chrY	10063436	.	T	C	1463.42	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
15259	chrY	10063448	.	C	A	32.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
15260	chrY	10063453	.	C	T	3152.71	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
15261	chrY	10063455	.	A	T	1409.21	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
15262	chrY	10063458	.	G	T	3157.58	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
15263	chrY	10063473	.	T	C	3253.34	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
15264	chrY	10063478	.	G	A	3794.71	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ
15265	chrY	10063533	.	G	T	16320.91	PASS	AC=14;AF=0.200;AN=70;BaseQ
15266	chrY	10063547	.	A	G	7127.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
15267	chrY	10063560	.	G	A	17478.25	PASS	AC=11;AF=0.157;AN=70;BaseQ
15268	chrY	10063564	.	G	A	17667.36	PASS	AC=9;AF=0.129;AN=70;BaseQ
15269	chrY	10063567	.	T	A	6990.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15270	chrY	10063585	.	T	C	19165.45	PASS	AC=9;AF=0.129;AN=70;BaseQ
15271	chrY	10063586	.	G	A	19159.22	PASS	AC=9;AF=0.129;AN=70;BaseQ
15272	chrY	10063593	.	A	G	19324.16	PASS	AC=9;AF=0.129;AN=70;BaseQ
15273	chrY	10063597	.	G	C	19426.44	PASS	AC=9;AF=0.129;AN=70;BaseQ
15274	chrY	10063611	.	T	C	19996.66	PASS	AC=9;AF=0.129;AN=70;BaseQ
15275	chrY	10063612	.	G	A	20206.62	PASS	AC=9;AF=0.129;AN=70;BaseQ
15276	chrY	10063622	.	G	A	20605.89	PASS	AC=9;AF=0.129;AN=70;BaseQ

15277	chrY	10063623	.	A	G	20641.45	PASS	AC=9;AF=0.129;AN=70;BaseQ
15278	chrY	10063628	.	C	T	7847.97	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15279	chrY	10063629	.	T	A,G	11800.86	PASS	AC=7,2;AF=0.100,0.029;AN=
15280	chrY	10063641	.	T	G	20859.97	PASS	AC=9;AF=0.129;AN=70;BaseQ
15281	chrY	10063644	.	C	T	1974.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15282	chrY	10063681	.	G	A	9249.27	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
15283	chrY	10063685	.	A	G	9623.22	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
15284	chrY	10063689	.	C	G	4840.85	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15285	chrY	10063701	.	A	C	9845.99	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
15286	chrY	10063719	.	T	C	5515.14	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15287	chrY	10063723	.	A	T	10048.48	PASS	AC=5;AF=0.083;AN=60;BaseQ
15288	chrY	10063734	.	A	T	19972.48	PASS	AC=9;AF=0.132;AN=68;BaseQ
15289	chrY	10063752	.	G	C	10589.31	PASS	AC=9;AF=0.129;AN=70;BaseQ
15290	chrY	10063761	.	T	G	22486.82	PASS	AC=10;AF=0.143;AN=70;Base
15291	chrY	10063762	.	G	C	22735.88	PASS	AC=10;AF=0.143;AN=70;Base
15292	chrY	10063776	.	A	C	24174.78	PASS	AC=9;AF=0.132;AN=68;BaseQ
15293	chrY	10063778	.	G	A	24351.87	PASS	AC=9;AF=0.129;AN=70;BaseQ
15294	chrY	10063784	.	A	G	733.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15295	chrY	10063788	.	C	T	10116.65	PASS	AC=9;AF=0.136;AN=66;BaseQ
15296	chrY	10063821	.	A	G	480.32	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
15297	chrY	10063823	.	G	A	25183.68	PASS	AC=13;AF=0.191;AN=68;Base
15298	chrY	10063827	.	T	G	24767.37	PASS	AC=13;AF=0.191;AN=68;Base
15299	chrY	10063884	.	T	G	23488.23	PASS	AC=13;AF=0.224;AN=58;Base
15300	chrY	10063894	.	T	C	10751.36	PASS	AC=12;AF=0.273;AN=44;Base
15301	chrY	10063897	.	G	C	11032.40	PASS	AC=12;AF=0.273;AN=44;Base
15302	chrY	10063901	.	A	C	11419.75	PASS	AC=9;AF=0.196;AN=46;BaseQ
15303	chrY	10063921	.	C	T	25517.16	PASS	AC=9;AF=0.265;AN=34;BaseQ
15304	chrY	10063925	.	T	C	17371.95	PASS	AC=9;AF=0.265;AN=34;BaseQ
15305	chrY	10063934	.	A	G	6589.68	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
15306	chrY	10063935	.	G	C	6667.73	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
15307	chrY	10063969	.	G	A	6581.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
15308	chrY	10063995	.	G	A	19176.86	PASS	AC=12;AF=0.462;AN=26;Base
15309	chrY	10063999	.	G	T	151.52	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
15310	chrY	10064055	.	G	A	10834.25	PASS	AC=9;AF=0.321;AN=28;BaseQ
15311	chrY	10064070	.	G	T	10906.80	PASS	AC=9;AF=0.321;AN=28;BaseQ
15312	chrY	10064091	.	A	G	19843.24	PASS	AC=10;AF=0.417;AN=24;Base
15313	chrY	10064115	.	T	A	10124	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
15314	chrY	10064126	.	A	T	11241.47	my_snp_filter	AC=4;AF=0.077;AN=
15315	chrY	10064129	.	T	G,C	35577.75	PASS	AC=9,3;AF=0.265,0.088;AN=
15316	chrY	10064131	.	A	G	262.02	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
15317	chrY	10064138	.	G	C	3065	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
15318	chrY	10064142	.	C	G	42278.28	PASS	AC=11;AF=0.306;AN=36;Base
15319	chrY	10064146	.	C	T	4914.69	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15320	chrY	10064169	.	T	G,A	33352.22	PASS	AC=12,6;AF=0.316,0.158;AN=
15321	chrY	10064170	.	G	A	38.18	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
15322	chrY	10064180	.	G	A	10473.93	PASS	AC=12;AF=0.176;AN=68;Base
15323	chrY	10064184	.	G	A	20334.81	my_snp_filter	AC=8;AF=0.148;AN=
15324	chrY	10064198	.	T	C	3951.06	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
15325	chrY	10064206	.	A	G	1035.69	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
15326	chrY	10064221	.	T	C	29350.31	PASS	AC=23;AF=0.329;AN=70;Base
15327	chrY	10064230	.	A	G	3544.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15328	chrY	10064231	.	G	T	4892.97	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
15329	chrY	10064250	.	T	C	22177.70	PASS	AC=11;AF=0.157;AN=70;Base
15330	chrY	10064251	.	C	T	3327.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15331	chrY	10064259	.	T	C	40563.36	PASS	AC=15;AF=0.242;AN=62;Base
15332	chrY	10064260	.	C	T	13162.16	PASS	AC=24;AF=0.353;AN=68;Base
15333	chrY	10064272	.	A	G	77858.64	PASS	AC=35;AF=0.500;AN=70;Base
15334	chrY	10064274	.	G	T,A	33351.15	PASS	AC=15,10;AF=0.221,0.147;A
15335	chrY	10064276	.	T	G	44820.24	PASS	AC=14;AF=0.226;AN=62;Base
15336	chrY	10064277	.	G	C,A	74677.60	PASS	AC=34,3;AF=0.486,0.043;AN=
15337	chrY	10064280	.	A	G	14896.24	PASS	AC=26;AF=0.371;AN=70;Base
15338	chrY	10064281	.	C	A	76288.35	PASS	AC=34;AF=0.486;AN=70;Base
15339	chrY	10064289	.	C	T	1026.70	my_snp_filter	AC=10;AF=0.143;AN=70;Base
15340	chrY	10064292	.	C	A	2448.81	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15341	chrY	10064299	.	G	T	50081.75	PASS	AC=14;AF=0.206;AN=68;Base
15342	chrY	10064309	.	C	T	8884.46	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
15343	chrY	10064310	.	G	T	43266.09	PASS	AC=12;AF=0.171;AN=70;Base
15344	chrY	10064312	.	C	T	14861.88	PASS	AC=25;AF=0.357;AN=70;Base
15345	chrY	10064313	.	T	C	5628.54	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
15346	chrY	10064315	.	T	C	628.63	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
15347	chrY	10064316	.	T	C	616.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
15348	chrY	10064317	.	T	G	14657.81	PASS	AC=26;AF=0.371;AN=70;Base
15349	chrY	10064326	.	C	T	464.18	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
15350	chrY	10064327	.	C	G,T	79266.71	PASS	AC=34,10;AF=0.486,0.143;A
15351	chrY	10064335	.	T	C	30764.93	PASS	AC=35;AF=0.500;AN=70;Base
15352	chrY	10064345	.	C	A	6720.28	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=

15353	chrY	10064348	.	G	C	6358.22	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15354	chrY	10064352	.	G	C	180.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
15355	chrY	10064353	.	T	C	31709.33	PASS	AC=9;AF=0.129;AN=70;BaseQ
15356	chrY	10064356	.	A	T	2074.26	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
15357	chrY	10064359	.	G	T	42466.04	PASS	AC=10;AF=0.143;AN=70;Base
15358	chrY	10064362	.	G	T	47280.71	PASS	AC=12;AF=0.176;AN=68;Base
15359	chrY	10064364	.	C	G	6565.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15360	chrY	10064365	.	A	G	3704.62	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15361	chrY	10064366	.	C	T	13691.09	PASS	AC=29;AF=0.414;AN=70;Base
15362	chrY	10064370	.	T	A	35586.48	PASS	AC=10;AF=0.143;AN=70;Base
15363	chrY	10064371	.	A	G	79890.72	PASS	AC=37;AF=0.529;AN=70;Base
15364	chrY	10064376	.	G	A	78460.89	PASS	AC=38;AF=0.543;AN=70;Base
15365	chrY	10064384	.	C	T	49.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15366	chrY	10064388	.	G	A	7079.54	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
15367	chrY	10064390	.	T	A	46590.94	PASS	AC=12;AF=0.182;AN=66;Base
15368	chrY	10064391	.	T	C	4320.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15369	chrY	10064398	.	G	T,*	1529.14	my_snp_filter	AC=1,6;AF=0.015,0.088;AN=
15370	chrY	10064400	.	C	A	35765.06	PASS	AC=10;AF=0.156;AN=64;Base
15371	chrY	10064404	.	T	G	6760.64	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
15372	chrY	10064408	.	T	A	29965.30	PASS	AC=8;AF=0.114;AN=70;BaseQ
15373	chrY	10064409	.	A	G	621.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15374	chrY	10064421	.	T	A	5795.08	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
15375	chrY	10064431	.	C	A	5266.29	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
15376	chrY	10064432	.	T	C	56715.94	PASS	AC=27;AF=0.450;AN=60;Base
15377	chrY	10064433	.	G	A	56789.21	PASS	AC=27;AF=0.450;AN=60;Base
15378	chrY	10064440	.	T	G,C	9124.03	PASS	AC=11,7;AF=0.162,0.103;AN=68;Base
15379	chrY	10064447	.	A	G,C,T	37747.89	PASS	AC=21,8,1;AF=0.375,0.143,
15380	chrY	10064448	.	C	T	1430.50	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
15381	chrY	10064451	.	C	T	359.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15382	chrY	10064459	.	C	A	537.21	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
15383	chrY	10064462	.	T	C	10285.84	PASS	AC=12;AF=0.176;AN=68;Base
15384	chrY	10064480	.	G	C	14629.76	PASS	AC=14;AF=0.226;AN=62;Base
15385	chrY	10064483	.	T	G	195.62	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
15386	chrY	10064495	.	G	A	1123.34	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
15387	chrY	10064496	.	C	T	13210.14	PASS	AC=9;AF=0.145;AN=62;BaseQ
15388	chrY	10064498	.	C	T	14488.11	PASS	AC=10;AF=0.172;AN=58;Base
15389	chrY	10064507	.	G	C	203.09	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15390	chrY	10064511	.	G	A	204.63	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15391	chrY	10064520	.	C	T	13029.16	PASS	AC=9;AF=0.167;AN=54;BaseQ
15392	chrY	10064529	.	A	G	14393.57	PASS	AC=9;AF=0.346;AN=26;BaseQ
15393	chrY	10064541	.	C	A	772.65	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
15394	chrY	10064543	.	A	T	12903.31	PASS	AC=9;AF=0.346;AN=26;BaseQ
15395	chrY	10064562	.	A	G	14429.96	PASS	AC=9;AF=0.265;AN=34;BaseQ
15396	chrY	10064584	.	A	G	13495.69	PASS	AC=9;AF=0.180;AN=50;BaseQ
15397	chrY	10064600	.	T	C,*	6248.74	PASS	AC=5,4;AF=0.096,0.077;AN=52;BaseQ
15398	chrY	10064605	.	C	T	13795.28	PASS	AC=9;AF=0.150;AN=60;BaseQ
15399	chrY	10064616	.	G	T	4000.29	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15400	chrY	10064639	.	G	C	2451.18	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
15401	chrY	10064642	.	A	T	14365.45	PASS	AC=17;AF=0.274;AN=62;Base
15402	chrY	10064660	.	C	A	2455.63	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15403	chrY	10064699	.	T	A	55.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15404	chrY	10064708	.	C	G	105.76	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15405	chrY	10064714	.	A	G	9430.02	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15406	chrY	10064743	.	G	T	12388.35	PASS	AC=15;AF=0.250;AN=60;Base
15407	chrY	10064747	.	G	T	12980.49	PASS	AC=15;AF=0.250;AN=60;Base
15408	chrY	10064756	.	G	T	478.66	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
15409	chrY	10064777	.	A	T	13361.14	PASS	AC=15;AF=0.250;AN=60;Base
15410	chrY	10064788	.	G	A	13778.35	PASS	AC=15;AF=0.250;AN=60;Base
15411	chrY	10064802	.	A	T	13619.93	PASS	AC=15;AF=0.288;AN=52;Base
15412	chrY	10064805	.	G	T	7633.78	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15413	chrY	10064806	.	A	T	7707.10	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15414	chrY	10064808	.	G	C,A	8973.65	PASS	AC=8,10;AF=0.143,0.179;AN=56;Base
15415	chrY	10064812	.	C	T	7653.83	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
15416	chrY	10064839	.	A	C	12708.78	PASS	AC=13;AF=0.217;AN=60;Base
15417	chrY	10064841	.	A	T	6315.44	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
15418	chrY	10064847	.	G	A	12880.14	PASS	AC=13;AF=0.217;AN=60;Base
15419	chrY	10064848	.	G	C	12886.16	PASS	AC=13;AF=0.217;AN=60;Base
15420	chrY	10064852	.	G	A	5377.85	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
15421	chrY	10064875	.	C	G,*	4866.94	PASS	AC=5,3;AF=0.074,0.044;AN=68;BaseQ
15422	chrY	10064877	.	G	C	8597.54	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
15423	chrY	10064890	.	C	A	12797.94	PASS	AC=10;AF=0.172;AN=58;Base
15424	chrY	10064891	.	G	A	5471.58	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
15425	chrY	10064893	.	A	T	12552.46	PASS	AC=9;AF=0.161;AN=56;BaseQ
15426	chrY	10064910	.	T	C	1559.96	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
15427	chrY	10064911	.	A	G	12090.63	PASS	AC=9;AF=0.205;AN=44;BaseQ
15428	chrY	10064960	.	T	C	14548.92	PASS	AC=13;AF=0.433;AN=30;Base

15429	chrY	10064973	.	C	G	7597.06	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
15430	chrY	10065007	.	T	G	20519.11	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=
15431	chrY	10065008	.	C	A	9418.78	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
15432	chrY	10065023	.	C	T	21400.99	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
15433	chrY	10065024	.	G	A	9628.64	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
15434	chrY	10065044	.	T	C,A	14726.48	PASS	AC=9;AF=0.167;AN=48;BaseQRankSum=
15435	chrY	10065079	.	A	G	10390.16	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
15436	chrY	10065090	.	T	C	2034	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
15437	chrY	10065092	.	T	C	10049.68	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
15438	chrY	10065094	.	A	T	17534.92	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
15439	chrY	10065129	.	T	C	7926.69	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
15440	chrY	10065165	.	G	C	7564.63	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15441	chrY	10065179	.	C	T	17342.68	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15442	chrY	10065184	.	T	C	46.68	PASS	AC=2;AF=0.029;AN=68;DP=952;FS=0.0
15443	chrY	10065188	.	T	A	46.88	PASS	AC=2;AF=0.029;AN=68;DP=960;FS=0.0
15444	chrY	10065195	.	G	C	6917.68	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15445	chrY	10065204	.	C	T	16869.89	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15446	chrY	10065215	.	C	T	16245.19	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15447	chrY	10065222	.	T	A	16078.29	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15448	chrY	10065224	.	C	T	6317.80	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15449	chrY	10065242	.	G	A	15958.62	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15450	chrY	10065246	.	C	G	8033.66	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15451	chrY	10065266	.	G	A	15650.15	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15452	chrY	10065277	.	C	G	7669.23	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15453	chrY	10065288	.	T	C	4652.70	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15454	chrY	10065589	.	C	T	6716.46	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
15455	chrY	10065597	.	T	G	17059.16	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
15456	chrY	10065599	.	G	A	6919.46	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
15457	chrY	10065607	.	G	A	16837.16	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
15458	chrY	10066145	.	A	G	121.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15459	chrY	10066159	.	A	T	118.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15460	chrY	10066165	.	A	G	124.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15461	chrY	10066182	.	T	A	214.86	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15462	chrY	10066187	.	G	A	256.88	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
15463	chrY	10066194	.	G	C	336.51	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
15464	chrY	10066212	.	C	G	330.54	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
15465	chrY	10066216	.	A	T	414.54	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
15466	chrY	10066246	.	T	G	924.46	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15467	chrY	10066251	.	A	G	1006.50	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
15468	chrY	10066268	.	A	C	51.70	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
15469	chrY	10066275	.	T	C	1143.22	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
15470	chrY	10066276	.	G	A	1252.06	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
15471	chrY	10066300	.	G	T	530.71	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
15472	chrY	10066308	.	G	T	541.10	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
15473	chrY	10066320	.	A	G	543.11	PASS	AC=1;AF=0.083;AN=12;BaseQRankSum=
15474	chrY	10066339	.	A	G	453.38	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
15475	chrY	10066398	.	G	C	392.54	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
15476	chrY	10066410	.	C	T	326.81	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
15477	chrY	10066414	.	C	T	324.80	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
15478	chrY	10066416	.	T	C	320.68	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
15479	chrY	10066419	.	T	G	314.15	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
15480	chrY	10066562	.	A	C	361.15	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
15481	chrY	10066568	.	T	C	350.46	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
15482	chrY	10066569	.	G	A	350.50	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
15483	chrY	10066591	.	C	G	48.62	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
15484	chrY	10066668	.	A	C	880.80	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
15485	chrY	10066689	.	G	T	33.03	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15486	chrY	10066697	.	C	G	46.91	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
15487	chrY	10066712	.	A	G	44.77	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15488	chrY	10066714	.	A	T	45.90	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15489	chrY	10066731	.	T	A	42.21	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
15490	chrY	10066738	.	A	T	121.49	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15491	chrY	10066739	.	C	A	116.70	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
15492	chrY	10066741	.	A	T	82.96	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
15493	chrY	10066744	.	T	G,C	504.58	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
15494	chrY	10066745	.	G	A	109.34	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
15495	chrY	10066747	.	T	C	48.23	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
15496	chrY	10066756	.	C	T	46.47	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
15497	chrY	10066757	.	C	T	264.30	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
15498	chrY	10066758	.	A	G	261.58	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
15499	chrY	10066759	.	C	A	67.04	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
15500	chrY	10066763	.	C	T	86.72	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15501	chrY	10066770	.	C	T	537.80	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
15502	chrY	10066779	.	T	A,*	394.63	PASS	AC=2,3;AF=0.045,0.068;AN=44;BaseQRankSum=
15503	chrY	10066780	.	G	A	246.79	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
15504	chrY	10066800	.	A	C	203.19	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=

15505	chrY	10066830	.	T	G	162.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15506	chrY	10066840	.	A	T	156.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15507	chrY	10066843	.	G	A	168.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15508	chrY	10066929	.	C	A	3919.15	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
15509	chrY	10066933	.	T	C	3874.87	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
15510	chrY	10066950	.	A	C	3474.73	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
15511	chrY	10066965	.	C	T	2740.15	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
15512	chrY	10066969	.	C	T	2446.19	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
15513	chrY	10067006	.	C	A	133.12	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
15514	chrY	10067037	.	A	G	3721.92	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
15515	chrY	10067069	.	C	T	1172.69	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15516	chrY	10067099	.	C	G	2547.33	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15517	chrY	10067100	.	C	T	130.52	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
15518	chrY	10067113	.	T	C,*	534.32	PASS	AC=2,3;AF=0.100,0.150;AN=20;BaseQ
15519	chrY	10067115	.	C	G	2795.34	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15520	chrY	10067118	.	T	G	2840.33	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15521	chrY	10067125	.	G	A	2936.33	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15522	chrY	10067136	.	T	G	2222.33	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
15523	chrY	10067169	.	C	G	1315.94	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
15524	chrY	10067174	.	A	C	2458.88	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
15525	chrY	10067187	.	T	C	1814.68	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
15526	chrY	10067196	.	A	T	1375.07	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
15527	chrY	10067207	.	A	T	850.45	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
15528	chrY	10067227	.	T	G	249.50	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15529	chrY	10067264	.	C	T	1508.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
15530	chrY	10067329	.	A	G	156.96	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15531	chrY	10067364	.	C	A	886.91	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
15532	chrY	10067389	.	C	T	2569.45	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
15533	chrY	10067406	.	A	T,*	2108.61	PASS	AC=1,6;AF=0.020,0.120;AN=50;BaseQ
15534	chrY	10067416	.	G	A	429.21	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
15535	chrY	10067426	.	C	T	676.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15536	chrY	10067427	.	A	C	341.29	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15537	chrY	10067428	.	C	A	341.08	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15538	chrY	10067434	.	A	G	833.52	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
15539	chrY	10067436	.	C	T	501.95	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15540	chrY	10067437	.	A	G	839.49	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
15541	chrY	10067444	.	A	G	838.98	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
15542	chrY	10067468	.	T	C	482.05	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
15543	chrY	10067469	.	C	T	484.78	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
15544	chrY	10067473	.	A	C	128.84	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15545	chrY	10067489	.	G	C	95.55	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
15546	chrY	10068056	.	A	T	351.49	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
15547	chrY	10068075	.	T	C	396.56	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
15548	chrY	10068079	.	G	T	486.42	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
15549	chrY	10068098	.	T	C	525.26	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
15550	chrY	10068103	.	T	C	570.23	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
15551	chrY	10068114	.	G	A	576	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
15552	chrY	10068121	.	A	G	490.37	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15553	chrY	10068130	.	G	A	455.20	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
15554	chrY	10068142	.	A	T	463.90	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
15555	chrY	10068156	.	G	C	456.37	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
15556	chrY	10068168	.	T	G	34.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15557	chrY	10068172	.	C	A	34.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15558	chrY	10068178	.	A	T	34.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15559	chrY	10068183	.	A	T	35.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15560	chrY	10068185	.	G	C	36.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15561	chrY	10068187	.	T	C	510.24	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
15562	chrY	10068192	.	C	T	34.47	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15563	chrY	10068204	.	A	C	301.03	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
15564	chrY	10068222	.	A	T	185.32	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
15565	chrY	10068230	.	G	C	247.92	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
15566	chrY	10068232	.	T	G	294.88	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
15567	chrY	10068234	.	A	G	117.09	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
15568	chrY	10068295	.	C	A	492.50	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15569	chrY	10068296	.	C	A	531.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
15570	chrY	10068303	.	C	A	554.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
15571	chrY	10068309	.	A	G	526.88	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
15572	chrY	10068310	.	C	A	488.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15573	chrY	10068328	.	T	A	386.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15574	chrY	10068330	.	T	C	56.01	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
15575	chrY	10068333	.	C	T	56.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15576	chrY	10068334	.	C	A	752.60	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
15577	chrY	10068346	.	T	C	67.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15578	chrY	10068347	.	A	C	178.15	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
15579	chrY	10068367	.	G	T	94.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15580	chrY	10068386	.	G	C	62.83	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=

15581	chrY	10068393	.	A	T	58.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15582	chrY	10068395	.	G	A	57.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15583	chrY	10068624	.	G	T	16135.66	PASS	AC=3;AF=0.150;AN=20;BaseQ
15584	chrY	10068632	.	C	A	25872.12	PASS	AC=5;AF=0.208;AN=24;BaseQ
15585	chrY	10068633	.	C	A	17992.03	PASS	AC=4;AF=0.167;AN=24;BaseQ
15586	chrY	10068637	.	C	T	27453.49	PASS	AC=5;AF=0.227;AN=22;BaseQ
15587	chrY	10068654	.	G	C	30792.67	PASS	AC=5;AF=0.167;AN=30;BaseQ
15588	chrY	10068686	.	A	G	15091.03	PASS	AC=4;AF=0.111;AN=36;BaseQ
15589	chrY	10068695	.	A	T	81589.80	PASS	AC=13;AF=0.260;AN=50;Base
15590	chrY	10068698	.	T	G	76676.83	PASS	AC=14;AF=0.292;AN=48;Base
15591	chrY	10068701	.	C	A	84442.79	PASS	AC=14;AF=0.280;AN=50;Base
15592	chrY	10068706	.	C	T	37.77	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
15593	chrY	10068711	.	A	G	374.65	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
15594	chrY	10068713	.	A	G	34.79	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
15595	chrY	10068734	.	A	G	64682.58	PASS	AC=12;AF=0.231;AN=52;Base
15596	chrY	10068818	.	C	A	46.88	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15597	chrY	10068826	.	C	A	1375.06	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
15598	chrY	10068829	.	C	T	39.57	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15599	chrY	10068919	.	C	G	6400.38	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15600	chrY	10068929	.	A	G	5668.81	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15601	chrY	10068938	.	T	G	4541.88	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15602	chrY	10068939	.	T	G	4182.42	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15603	chrY	10068945	.	C	T	2553.48	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15604	chrY	10068949	.	T	G	2221.55	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15605	chrY	10068951	.	A	C	2050.36	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
15606	chrY	10068958	.	G	A	1475.32	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15607	chrY	10068961	.	A	G	967.32	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
15608	chrY	10068962	.	C	T	926.32	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15609	chrY	10068965	.	G	A	923.26	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
15610	chrY	10068975	.	T	G	940.58	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15611	chrY	10068977	.	G	T	856.58	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15612	chrY	10068982	.	G	A	814.65	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15613	chrY	10068986	.	A	C	811.69	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15614	chrY	10068988	.	A	T	853.69	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
15615	chrY	10068996	.	A	G	849.95	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
15616	chrY	10069006	.	A	G	872.94	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
15617	chrY	10069027	.	A	C	854.97	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
15618	chrY	10069039	.	C	T	893.80	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
15619	chrY	10069042	.	T	A	861.06	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
15620	chrY	10069304	.	T	C	293.59	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15621	chrY	10069307	.	G	A	51.27	PASS	AC=2;AF=0.032;AN=62;DP=1958;FS=0.
15622	chrY	10069316	.	G	T	51.53	PASS	AC=2;AF=0.036;AN=56;DP=2308;FS=0.
15623	chrY	10069317	.	G	T	48.32	PASS	AC=2;AF=0.034;AN=58;DP=2224;FS=0.
15624	chrY	10069321	.	C	T	47.22	PASS	AC=2;AF=0.032;AN=62;DP=2240;FS=0.
15625	chrY	10069329	.	C	A	80.60	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15626	chrY	10069334	.	G	A	81.76	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15627	chrY	10069338	.	A	T	80.62	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
15628	chrY	10069354	.	G	C	46.79	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
15629	chrY	10069359	.	C	A	114.36	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
15630	chrY	10069812	.	C	T	118.08	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
15631	chrY	10069815	.	C	A	116.49	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
15632	chrY	10069824	.	G	T	104.30	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
15633	chrY	10069830	.	G	C	109.26	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
15634	chrY	10069831	.	G	C	105.36	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
15635	chrY	10069999	.	T	A	107.42	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
15636	chrY	10070011	.	C	A	225.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
15637	chrY	10070017	.	A	T	55.37	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
15638	chrY	10070018	.	G	C,T	640.56	PASS	AC=1,1;AF=0.125,0.125;AN=8;BaseQR
15639	chrY	10070026	.	A	G	524.11	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
15640	chrY	10070040	.	A	C	1240.11	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=0
15641	chrY	10070046	.	G	T	1575.53	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=0
15642	chrY	10070049	.	A	G	1376.53	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=0
15643	chrY	10070058	.	G	A	237.92	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
15644	chrY	10070069	.	T	C	1550.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
15645	chrY	10070070	.	T	A	1550.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
15646	chrY	10070073	.	A	G	2426.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
15647	chrY	10070080	.	G	C	2588.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=0
15648	chrY	10070083	.	T	A	2672.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
15649	chrY	10070091	.	T	A	3008.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=0
15650	chrY	10070094	.	C	G	3050.35	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=2
15651	chrY	10070108	.	A	T	3521.99	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=3
15652	chrY	10070114	.	T	C	3647.99	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
15653	chrY	10070119	.	G	C	3757.99	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=4
15654	chrY	10070130	.	G	A	3815.32	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=4
15655	chrY	10070679	.	T	G	139.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15656	chrY	10070680	.	T	A	139.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

15657	chrY	10070683	.	C	T	142.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15658	chrY	10070689	.	G	A	133.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15659	chrY	10070690	.	C	A	127.64	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15660	chrY	10070700	.	C	T	128.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15661	chrY	10070712	.	C	T	125.60	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
15662	chrY	10070722	.	G	C	262.52	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
15663	chrY	10070728	.	C	T	145.74	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
15664	chrY	10070777	.	A	C	7877.62	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
15665	chrY	10070789	.	G	C	8578.86	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
15666	chrY	10070820	.	A	G	81.06	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
15667	chrY	10070843	.	C	A	956.46	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
15668	chrY	10070844	.	C	A	958.78	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
15669	chrY	10070846	.	T	A	955.20	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
15670	chrY	10070857	.	G	C	856.13	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
15671	chrY	10070858	.	G	T	856.09	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
15672	chrY	10070859	.	A	G	10021.02	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=
15673	chrY	10070864	.	A	C	634.85	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
15674	chrY	10070876	.	G	C	247.59	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
15675	chrY	10070879	.	G	C	10849.57	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
15676	chrY	10070880	.	A	T	11042.15	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
15677	chrY	10070888	.	G	A	11067.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15678	chrY	10070889	.	G	A	11238.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15679	chrY	10070904	.	G	A	10989.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15680	chrY	10070927	.	A	C	10445.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15681	chrY	10070956	.	C	A	4131.45	PASS	AC=4;AF=0.500;AN=8;BaseQRankSum=
15682	chrY	10070963	.	G	T	3929.94	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
15683	chrY	10070982	.	T	C	4092.94	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
15684	chrY	10070983	.	A	T	4053.94	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
15685	chrY	10071018	.	G	A	2636.23	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
15686	chrY	10071019	.	C	T	7806.72	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
15687	chrY	10071025	.	G	A	8123.33	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
15688	chrY	10071028	.	A	G	8046.33	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
15689	chrY	10071046	.	A	C	8073.97	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
15690	chrY	10071048	.	G	C	8220.40	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
15691	chrY	10071052	.	C	G	8334.79	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
15692	chrY	10071057	.	A	T	8279.79	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
15693	chrY	10071064	.	A	T	8001.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
15694	chrY	10071073	.	C	A	8540.10	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15695	chrY	10071114	.	G	A	2598.27	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
15696	chrY	10071117	.	G	A,C	7475.43	PASS	AC=1,9;AF=0.050,0.450;AN=20;BaseQRankSum=
15697	chrY	10071145	.	T	A	11357.63	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15698	chrY	10071152	.	T	C	888.03	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
15699	chrY	10071193	.	C	A	17242.18	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum=
15700	chrY	10071223	.	T	C	20926.18	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
15701	chrY	10071252	.	G	A	22163.74	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
15702	chrY	10071258	.	A	G	22135.74	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
15703	chrY	10071263	.	G	A	11178.39	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
15704	chrY	10071278	.	T	C	21980.22	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15705	chrY	10071294	.	A	G	209.16	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
15706	chrY	10071295	.	A	C	21012.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
15707	chrY	10071300	.	T	C	2861.12	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
15708	chrY	10071354	.	C	G	20339.55	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
15709	chrY	10071355	.	C	T	7774.59	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
15710	chrY	10071356	.	G	A	10507.83	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
15711	chrY	10071360	.	T	G	20475.96	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
15712	chrY	10071365	.	T	A	20199.59	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
15713	chrY	10071367	.	A	T	7922.29	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
15714	chrY	10071370	.	A	G,T	11393.46	PASS	AC=8,3;AF=0.211,0.079;AN=38;BaseQRankSum=
15715	chrY	10071371	.	T	C	19842.98	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
15716	chrY	10071388	.	C	A	9825.26	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
15717	chrY	10071390	.	G	T	9516.26	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
15718	chrY	10071402	.	A	G	1938.89	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
15719	chrY	10071422	.	A	C	17800.52	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
15720	chrY	10071430	.	C	G	17796.11	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
15721	chrY	10071450	.	A	G	9022.73	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15722	chrY	10071455	.	G	T	15794.05	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
15723	chrY	10071481	.	A	G	3034.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15724	chrY	10071485	.	G	T	3092.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
15725	chrY	10071509	.	G	A	17438.28	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
15726	chrY	10071517	.	T	G,C	11126.14	PASS	AC=11,6;AF=0.167,0.091;AN=66;BaseQRankSum=
15727	chrY	10071536	.	G	A	15826.52	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
15728	chrY	10071538	.	A	T	15801.53	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
15729	chrY	10071544	.	A	T	2356.72	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
15730	chrY	10071552	.	T	C	14463.75	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
15731	chrY	10071576	.	G	C	12321.03	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
15732	chrY	10071585	.	A	G	11259.82	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=

15733	chrY	10071589	.	T	C	10801.76	PASS	AC=9;AF=0.132;AN=68;BaseQ
15734	chrY	10071604	.	A	T	8984.66	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15735	chrY	10071605	.	T	G	8735.12	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
15736	chrY	10071631	.	C	A	1536.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15737	chrY	10071635	.	A	T	1130.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15738	chrY	10071640	.	G	A	1513.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
15739	chrY	10071653	.	C	A	2872.19	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
15740	chrY	10071658	.	T	A	1390.23	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
15741	chrY	10071663	.	G	T	1262.95	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
15742	chrY	10071674	.	G	T	1842.65	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
15743	chrY	10071677	.	A	G	730.68	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
15744	chrY	10071680	.	G	A	1425.30	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
15745	chrY	10071695	.	T	C	799.07	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
15746	chrY	10071696	.	G	A	714.87	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
15747	chrY	10071700	.	G	C	124.47	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
15748	chrY	10071707	.	A	G	80.73	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
15749	chrY	10071708	.	G	A	176.03	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
15750	chrY	10071709	.	G	C	40.99	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
15751	chrY	10071760	.	A	G	34.27	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
15752	chrY	10071777	.	G	A	30.08	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
15753	chrY	10071785	.	T	C	75.43	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
15754	chrY	10071791	.	A	T	66.40	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
15755	chrY	10071792	.	C	A	66.22	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
15756	chrY	10071796	.	A	G	61.37	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
15757	chrY	10071800	.	C	A	146.54	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
15758	chrY	10071801	.	A	G	147.09	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
15759	chrY	10071808	.	A	T	97.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15760	chrY	10071811	.	A	T	185.81	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
15761	chrY	10071834	.	T	G	126.47	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15762	chrY	10071840	.	G	A	90.33	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15763	chrY	10071849	.	C	T	181.58	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15764	chrY	10071858	.	A	G	180.96	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15765	chrY	10071860	.	C	T	49.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
15766	chrY	10071874	.	T	A	95.84	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
15767	chrY	10071914	.	A	G	1283.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15768	chrY	10071938	.	C	T	6728.61	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
15769	chrY	10071940	.	C	A	2114.06	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15770	chrY	10071941	.	T	C	2159.97	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
15771	chrY	10071951	.	A	T	2534.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
15772	chrY	10071958	.	C	T	1951.11	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
15773	chrY	10071992	.	A	G	24341.78	PASS	AC=32;AF=0.457;AN=70;BaseQ
15774	chrY	10072012	.	G	C	27092.74	PASS	AC=32;AF=0.457;AN=70;BaseQ
15775	chrY	10072036	.	T	C	526.13	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
15776	chrY	10072047	.	C	T	23674.39	PASS	AC=32;AF=0.457;AN=70;BaseQ
15777	chrY	10072100	.	A	G	2256.68	PASS	AC=15;AF=0.341;AN=44;BaseQRankSum=
15778	chrY	10072107	.	T	A	2134.56	PASS	AC=15;AF=0.357;AN=42;BaseQRankSum=
15779	chrY	10072116	.	G	T	1739.89	PASS	AC=14;AF=0.318;AN=44;BaseQRankSum=
15780	chrY	10072123	.	A	G	1591.74	PASS	AC=12;AF=0.286;AN=42;BaseQRankSum=
15781	chrY	10072125	.	G	A	1552.90	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum=
15782	chrY	10072140	.	A	T	661.87	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
15783	chrY	10072163	.	C	T	14834.30	PASS	AC=12;AF=0.261;AN=46;BaseQ
15784	chrY	10072180	.	C	T	13556.05	PASS	AC=9;AF=0.214;AN=42;BaseQ
15785	chrY	10072187	.	C	T	12815.09	PASS	AC=8;AF=0.190;AN=42;BaseQ
15786	chrY	10072193	.	C	A	11758.72	PASS	AC=8;AF=0.211;AN=38;BaseQ
15787	chrY	10072194	.	T	G	2503.24	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
15788	chrY	10072225	.	G	T,C	5381.30	PASS	AC=5,4;AF=0.147,0.118;AN=34;BaseQ
15789	chrY	10072239	.	A	G	3472.64	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
15790	chrY	10072244	.	G	T	3469.44	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
15791	chrY	10072259	.	G	A	5770.22	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
15792	chrY	10072262	.	A	C	5400.94	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
15793	chrY	10072265	.	G	A	4997.10	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
15794	chrY	10072266	.	A	G	2316.12	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
15795	chrY	10072278	.	C	T	1521.30	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
15796	chrY	10072285	.	A	G	1540.77	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
15797	chrY	10072300	.	G	T	1070.15	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
15798	chrY	10072302	.	G	A	905.71	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
15799	chrY	10072308	.	T	A	1691.90	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
15800	chrY	10072311	.	T	A	538.29	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
15801	chrY	10072323	.	T	C	628.18	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
15802	chrY	10072353	.	G	C	1359.34	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
15803	chrY	10072369	.	T	C	1922.88	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
15804	chrY	10072377	.	A	G	2098.82	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
15805	chrY	10072427	.	T	G	1816.02	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
15806	chrY	10072443	.	T	G	30.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
15807	chrY	10072464	.	T	C	47.55	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
15808	chrY	10072475	.	A	G	45.38	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=

15809	chrY	10072483	.	T	G	2180.66	PASS	AC=15;AF=0.278;AN=54;BaseQRankSum=
15810	chrY	10072492	.	C	T	1968.80	PASS	AC=18;AF=0.500;AN=36;BaseQRankSum=
15811	chrY	10072501	.	G	C	1603.37	PASS	AC=18;AF=0.529;AN=34;BaseQRankSum=
15812	chrY	10072502	.	T	A	1603.37	PASS	AC=18;AF=0.529;AN=34;BaseQRankSum=
15813	chrY	10072526	.	T	A	597.61	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
15814	chrY	10072531	.	T	C	355.88	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
15815	chrY	10072534	.	A	C	50.07	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
15816	chrY	10072541	.	T	C	223.52	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
15817	chrY	10072546	.	A	G	93.42	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
15818	chrY	10072548	.	T	C	93.16	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
15819	chrY	10072551	.	T	A	55.40	my_snp_filter	AC=2;AF=0.053;AN=38;DP=29
15820	chrY	10072875	.	C	A	114.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15821	chrY	10072879	.	G	C	113.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15822	chrY	10072887	.	A	T	107.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15823	chrY	10072889	.	A	T	110.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15824	chrY	10072891	.	T	C	114.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15825	chrY	10072900	.	C	T	117.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15826	chrY	10072903	.	A	G	115.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15827	chrY	10072912	.	T	G	118.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15828	chrY	10072914	.	T	A	124.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15829	chrY	10072922	.	A	G	120.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15830	chrY	10072957	.	C	A	399.27	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15831	chrY	10072958	.	G	T	429.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15832	chrY	10072973	.	T	C	390.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15833	chrY	10072982	.	G	C	393.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
15834	chrY	10072993	.	A	C	222.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15835	chrY	10072997	.	G	C	177.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15836	chrY	10073105	.	A	C	34.18	PASS	AC=2;AF=0.034;AN=58;DP=371;FS=0.0
15837	chrY	10073204	.	C	T	51.23	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
15838	chrY	10073221	.	G	A	745.14	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=
15839	chrY	10073262	.	T	G	2312.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15840	chrY	10073266	.	C	A	2306.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15841	chrY	10073267	.	T	A	2309.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15842	chrY	10073273	.	A	C	2300.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15843	chrY	10073282	.	T	A	2303.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15844	chrY	10073285	.	T	G	2300.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15845	chrY	10073306	.	C	T	2340.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
15846	chrY	10073612	.	C	A	572.44	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
15847	chrY	10073616	.	A	T	2190.48	PASS	AC=3;AF=0.300;AN=10;BaseQRankSum=
15848	chrY	10073622	.	C	T	3176.77	PASS	AC=5;AF=0.625;AN=8;BaseQRankSum=2
15849	chrY	10073624	.	T	A	3035.97	PASS	AC=5;AF=0.625;AN=8;BaseQRankSum=0
15850	chrY	10073648	.	A	T	3716.68	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
15851	chrY	10073671	.	G	T	1097.89	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=3
15852	chrY	10073677	.	T	C	615.56	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
15853	chrY	10073679	.	C	G	726.17	PASS	AC=3;AF=0.500;AN=6;BaseQRankSum=-
15854	chrY	10073680	.	A	T,C	1463.17	PASS	AC=1,2;AF=0.167,0.333;AN=6;BaseQR
15855	chrY	10073681	.	A	T	1735.88	PASS	AC=3;AF=0.500;AN=6;BaseQRankSum=-
15856	chrY	10073695	.	T	A	548.88	PASS	AC=3;AF=0.500;AN=6;BaseQRankSum=-
15857	chrY	10073718	.	T	A	938.04	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
15858	chrY	10073738	.	C	T	215.94	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
15859	chrY	10073762	.	T	C	178.57	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
15860	chrY	10073782	.	A	T	32.15	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
15861	chrY	10073783	.	T	G	33.27	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
15862	chrY	10073787	.	T	C	31.19	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
15863	chrY	10074935	.	G	A	469.32	PASS	AC=14;AF=0.350;AN=40;DP=198;FS=0.
15864	chrY	10074996	.	T	G	118.10	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
15865	chrY	10075004	.	C	T	518.09	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
15866	chrY	10075006	.	G	A	1987.52	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
15867	chrY	10075015	.	C	T	252.93	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
15868	chrY	10075016	.	G	A	337.20	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
15869	chrY	10075019	.	A	G	396.66	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
15870	chrY	10075050	.	C	G	1082.09	my_snp_filter	AC=12;AF=0.194;AN=62;Base
15871	chrY	10075054	.	A	T	90.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
15872	chrY	10075068	.	G	C	2214.81	my_snp_filter	AC=13;AF=0.186;AN=70;Base
15873	chrY	10075070	.	T	C	2358.39	my_snp_filter	AC=13;AF=0.186;AN=70;Base
15874	chrY	10075072	.	C	T	203.30	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
15875	chrY	10075073	.	T	C	3037.63	my_snp_filter	AC=13;AF=0.197;AN=66;Base
15876	chrY	10075075	.	G	A	2417.98	my_snp_filter	AC=13;AF=0.186;AN=70;Base
15877	chrY	10075077	.	G	A	3187.14	my_snp_filter	AC=13;AF=0.197;AN=66;Base
15878	chrY	10075099	.	C	A	3768.14	my_snp_filter	AC=11;AF=0.167;AN=66;Base
15879	chrY	10075104	.	A	G	2048.12	my_snp_filter	AC=11;AF=0.167;AN=66;Base
15880	chrY	10075105	.	G	A	4095.14	my_snp_filter	AC=11;AF=0.167;AN=66;Base
15881	chrY	10075130	.	C	T	3109.39	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
15882	chrY	10075131	.	A	G	3132.74	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
15883	chrY	10075132	.	C	T	2839.72	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
15884	chrY	10075137	.	G	A	980.19	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=

15885	chrY	10075142	.	T	C	3305.09	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
15886	chrY	10075156	.	G	C	1082.60	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
15887	chrY	10075159	.	G	C	1018.26	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
15888	chrY	10075163	.	C	T,*	1276.04	PASS	AC=8,1;AF=0.118,0.015;AN=68;BaseQ
15889	chrY	10075170	.	G	A	3708.83	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
15890	chrY	10075176	.	G	C	3633.99	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
15891	chrY	10075220	.	T	A	5732.60	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
15892	chrY	10075228	.	A	C	5669.93	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQ
15893	chrY	10075245	.	C	T	4833.83	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
15894	chrY	10075246	.	C	T	4828.15	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
15895	chrY	10075264	.	A	G	3873.71	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
15896	chrY	10075278	.	G	A	3404.65	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
15897	chrY	10075286	.	C	G	2968.55	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
15898	chrY	10075290	.	C	T	2830.62	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
15899	chrY	10075299	.	G	A	2320.69	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
15900	chrY	10075302	.	T	C	2189.20	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
15901	chrY	10075307	.	T	A	1976.46	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
15902	chrY	10075309	.	T	C	1936.35	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
15903	chrY	10075326	.	C	T	1154.71	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
15904	chrY	10075343	.	G	C	429.74	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
15905	chrY	10075352	.	C	A	198.58	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
15906	chrY	10075356	.	C	T	143.19	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
15907	chrY	10075384	.	T	A	96.92	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
15908	chrY	10075401	.	A	C	121.41	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
15909	chrY	10075409	.	T	A	155.74	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
15910	chrY	10075413	.	G	C	206.72	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
15911	chrY	10075421	.	C	G	213.74	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
15912	chrY	10075425	.	G	T	287.90	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
15913	chrY	10075438	.	T	G	354.74	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
15914	chrY	10075444	.	C	G	373.24	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
15915	chrY	10075446	.	A	G	496.24	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
15916	chrY	10075460	.	T	A	790.91	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
15917	chrY	10075465	.	C	T	880.28	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
15918	chrY	10075466	.	G	A	883.37	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
15919	chrY	10075474	.	G	T	964.21	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
15920	chrY	10075481	.	A	G	1053.71	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
15921	chrY	10075500	.	A	G	1338.32	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
15922	chrY	10075501	.	A	G	1261.27	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
15923	chrY	10075503	.	T	C	1300.91	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
15924	chrY	10075520	.	T	C	437.50	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
15925	chrY	10075524	.	T	A	1591.88	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
15926	chrY	10075530	.	C	T	231.88	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
15927	chrY	10075546	.	G	A	2825.73	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
15928	chrY	10075552	.	T	A	3081.73	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
15929	chrY	10075577	.	T	C	795.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=-
15930	chrY	10075597	.	C	T	381.92	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
15931	chrY	10075600	.	T	C	924.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=0
15932	chrY	10075604	.	A	G	1008.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=-
15933	chrY	10075605	.	T	A	430.24	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=-
15934	chrY	10075623	.	G	A	1041.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=1
15935	chrY	10075634	.	T	C	1143.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=1
15936	chrY	10075644	.	C	T	637.63	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
15937	chrY	10075650	.	G	A	637.49	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
15938	chrY	10075685	.	G	C	4079.09	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
15939	chrY	10075700	.	G	A	104.93	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
15940	chrY	10075701	.	C	G	4063.78	my_snp_filter	AC=8;AF=0.267;AN=30;BaseQ
15941	chrY	10075704	.	T	C	1800.34	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=
15942	chrY	10075709	.	A	G	1793.44	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=
15943	chrY	10075712	.	G	T	6448.08	my_snp_filter	AC=13;AF=0.433;AN=30;BaseQ
15944	chrY	10075713	.	G	A	110.18	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
15945	chrY	10075716	.	G	T	6333.68	my_snp_filter	AC=13;AF=0.464;AN=28;BaseQ
15946	chrY	10075721	.	A	G	58.69	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
15947	chrY	10075722	.	A	C	106.37	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
15948	chrY	10075724	.	A	T	146.61	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
15949	chrY	10075730	.	A	T	1483.58	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum=
15950	chrY	10075740	.	A	G	151.06	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
15951	chrY	10075752	.	G	A	2959.73	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
15952	chrY	10075763	.	G	C	408.73	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
15953	chrY	10075782	.	C	T	298.26	PASS	AC=3;AF=0.300;AN=10;BaseQRankSum=
15954	chrY	10075802	.	T	A	110.46	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15955	chrY	10075805	.	G	A	118.91	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15956	chrY	10075806	.	C	A	112.76	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15957	chrY	10075811	.	T	A	76.92	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
15958	chrY	10076800	.	A	C	1280.22	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
15959	chrY	10077460	.	G	A	26907.96	PASS	AC=70;AF=1.00;AN=70;BaseQ
15960	chrY	10081624	.	A	C	148.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

15961	chrY	10081627	.	T	A	146.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15962	chrY	10081631	.	G	A	113.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15963	chrY	10081633	.	C	G	111.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15964	chrY	10081635	.	A	G	111.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15965	chrY	10081655	.	G	T	81.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15966	chrY	10081656	.	A	G	81.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
15967	chrY	10081689	.	T	G	660.11	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
15968	chrY	10081895	.	G	T	92.78	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
15969	chrY	10081955	.	T	C	113.51	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
15970	chrY	10081956	.	C	A	359.32	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
15971	chrY	10081958	.	T	G	125.43	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
15972	chrY	10081961	.	T	A	90.42	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
15973	chrY	10081962	.	C	A,T	504.47	PASS	AC=5,1;AF=0.100,0.020;AN=50;BaseQ
15974	chrY	10081966	.	C	T	79.87	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
15975	chrY	10081968	.	C	T	1236.54	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
15976	chrY	10081970	.	G	A	487.90	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
15977	chrY	10081973	.	C	T	323.68	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
15978	chrY	10081976	.	A	C	96.40	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
15979	chrY	10081979	.	G	A	308.93	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
15980	chrY	10081980	.	C	A,T	333.51	PASS	AC=1,1;AF=0.024,0.024;AN=42;BaseQ
15981	chrY	10081981	.	C	C,T	667.99	PASS	AC=4,4;AF=0.080,0.080;AN=50;BaseQ
15982	chrY	10081984	.	C	G	161.53	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
15983	chrY	10081985	.	C	T	111.59	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
15984	chrY	10081995	.	C	T	249.49	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
15985	chrY	10081996	.	T	C	132.73	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
15986	chrY	10081998	.	G	A	89.65	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
15987	chrY	10082000	.	A	T	77.05	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
15988	chrY	10082004	.	T	A	119.44	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
15989	chrY	10082007	.	A	G	39.24	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
15990	chrY	10082014	.	G	C	124.23	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
15991	chrY	10082019	.	C	A,T	755.19	PASS	AC=5,4;AF=0.192,0.154;AN=26;BaseQ
15992	chrY	10082021	.	T	C	386.85	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
15993	chrY	10082023	.	C	A	347.47	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
15994	chrY	10082027	.	C	T	358.82	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
15995	chrY	10082028	.	T	G	340.22	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
15996	chrY	10082035	.	T	A	346.08	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
15997	chrY	10082037	.	A	G	32.25	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
15998	chrY	10082039	.	A	C	31.89	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
15999	chrY	10082045	.	T	C	310.98	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
16000	chrY	10082056	.	G	C	177.64	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
16001	chrY	10082058	.	G	C	259.10	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
16002	chrY	10082062	.	G	T	301.44	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
16003	chrY	10082070	.	C	T	48.82	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
16004	chrY	10082078	.	C	A	91.06	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
16005	chrY	10082082	.	T	A	88.37	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
16006	chrY	10082251	.	A	G	500.42	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16007	chrY	10082253	.	G	A	526.13	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16008	chrY	10082262	.	A	G	329.83	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16009	chrY	10082286	.	G	T	236.56	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16010	chrY	10082290	.	A	G	238.79	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16011	chrY	10082295	.	T	G	236.76	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16012	chrY	10082297	.	C	T	248.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16013	chrY	10082310	.	T	C	185.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16014	chrY	10082312	.	T	G	186.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16015	chrY	10082313	.	G	A	185.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16016	chrY	10082324	.	T	C	172.29	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16017	chrY	10082330	.	C	A	171.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16018	chrY	10082343	.	A	G	174.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16019	chrY	10082346	.	T	G	169.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16020	chrY	10082347	.	C	T	170.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16021	chrY	10082350	.	A	C	179.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16022	chrY	10082355	.	A	G	9576.55	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum=
16023	chrY	10083346	.	T	A	39.15	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
16024	chrY	10083407	.	T	A	46.66	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
16025	chrY	10083621	.	C	A	43.21	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
16026	chrY	10083777	.	G	A	1158.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16027	chrY	10084166	.	G	A	172.41	PASS	AC=4;AF=0.250;AN=16;DP=33;FS=0.00
16028	chrY	10090099	.	A	G	3187.23	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
16029	chrY	10091418	.	A	C	642.87	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
16030	chrY	10091489	.	C	G	12557.50	PASS	AC=14;AF=0.467;AN=30;BaseQ
16031	chrY	10091528	.	A	T	896.39	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
16032	chrY	10091529	.	T	G	852.96	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
16033	chrY	10091637	.	T	A	404.62	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
16034	chrY	10091653	.	G	A	3360.60	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
16035	chrY	10091675	.	A	G	186.34	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
16036	chrY	10091698	.	A	G	29113.26	PASS	AC=14;AF=0.538;AN=26;BaseQ

16037	chrY	10091742	.	A	T	290.11	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
16038	chrY	10091769	.	A	T	24288.57	PASS	AC=19;AF=0.633;AN=30;BaseQ
16039	chrY	10091798	.	T	C	11420.01	PASS	AC=12;AF=0.353;AN=34;BaseQ
16040	chrY	10091867	.	G	A	9400.87	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
16041	chrY	10091895	.	A	C	1982.18	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=
16042	chrY	10091930	.	A	G,*	1356.07	PASS	AC=2,5;AF=0.111,0.278;AN=18;BaseQ
16043	chrY	10091967	.	A	T	7487.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
16044	chrY	10092545	.	G	A	54.39	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16045	chrY	10092551	.	T	A	54.40	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16046	chrY	10092567	.	A	C	52.81	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16047	chrY	10092575	.	G	T	49.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16048	chrY	10092581	.	G	C	49.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16049	chrY	10092923	.	T	C	1931.70	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
16050	chrY	10092924	.	G	A	1929.14	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
16051	chrY	10093143	.	G	T	2324.15	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
16052	chrY	10093159	.	C	G	2603.46	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
16053	chrY	10093160	.	G	T	2645.75	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
16054	chrY	10093163	.	C	A	2790.23	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
16055	chrY	10093206	.	T	G	2797.41	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
16056	chrY	10093207	.	T	A	2845.41	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
16057	chrY	10093211	.	G	C	2929.38	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
16058	chrY	10093217	.	G	T	2800.12	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
16059	chrY	10093259	.	G	A	4535.23	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16060	chrY	10093273	.	G	A	4227.31	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16061	chrY	10093305	.	C	T	2694.86	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16062	chrY	10093312	.	C	G	2467.90	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16063	chrY	10093314	.	T	C	2341.88	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16064	chrY	10093329	.	G	T	1798.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16065	chrY	10093332	.	G	C	1679.17	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16066	chrY	10093336	.	T	A	1468.74	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16067	chrY	10093338	.	C	T	1426.74	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16068	chrY	10093346	.	T	G	1019.24	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16069	chrY	10093351	.	C	T	890.13	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16070	chrY	10093353	.	T	C	893.13	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16071	chrY	10093363	.	C	T	474.97	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
16072	chrY	10093377	.	G	A	91.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16073	chrY	10093378	.	G	T	90.76	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16074	chrY	10093561	.	T	G	289.87	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
16075	chrY	10093577	.	A	G	550.92	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
16076	chrY	10093581	.	T	C	553.84	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
16077	chrY	10093592	.	A	G	960.90	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
16078	chrY	10093598	.	T	C	1180.76	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
16079	chrY	10093599	.	G	A	1183.76	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
16080	chrY	10093603	.	A	T	1196.40	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQ
16081	chrY	10093624	.	C	G	1795	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQ
16082	chrY	10093643	.	T	G	1978.22	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
16083	chrY	10093645	.	T	A	2013.19	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
16084	chrY	10093647	.	C	T	1998.21	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
16085	chrY	10093652	.	C	T	2074.69	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
16086	chrY	10093656	.	T	C	2070.66	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
16087	chrY	10093662	.	A	T	2099.99	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
16088	chrY	10093671	.	G	T	2241.19	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
16089	chrY	10093672	.	C	T	2246.95	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
16090	chrY	10093693	.	C	T	1910.15	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
16091	chrY	10093711	.	T	G	1668.41	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
16092	chrY	10093716	.	C	A	1578.85	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
16093	chrY	10093717	.	A	G	1536.67	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
16094	chrY	10093745	.	G	T	605.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
16095	chrY	10093749	.	C	T	572.16	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
16096	chrY	10093767	.	G	A	159.98	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
16097	chrY	10093768	.	T	C	128.69	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
16098	chrY	10093772	.	G	A	104.47	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16099	chrY	10093782	.	A	G	70.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16100	chrY	10093795	.	T	C	55.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16101	chrY	10093796	.	G	A	54.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16102	chrY	10093803	.	A	G	111.96	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16103	chrY	10093806	.	A	G	112.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16104	chrY	10093814	.	G	C	114.78	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16105	chrY	10093826	.	C	T	157.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16106	chrY	10093834	.	A	G	198.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16107	chrY	10093836	.	T	A	198.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16108	chrY	10093838	.	G	A	198.28	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16109	chrY	10093842	.	C	G	202.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16110	chrY	10093846	.	A	C	198.56	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16111	chrY	10093852	.	A	G	288.75	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16112	chrY	10093853	.	A	C	292.21	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ

16113	chrY	10093862	.	T	C	333.32	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16114	chrY	10093863	.	A	G	334.14	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16115	chrY	10093869	.	C	A	373.89	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16116	chrY	10093877	.	G	T	415.24	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16117	chrY	10093880	.	G	C	415.25	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16118	chrY	10093883	.	T	C	415.51	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16119	chrY	10093909	.	T	C	33.98	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16120	chrY	10093910	.	G	C	381.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16121	chrY	10093913	.	G	A	34.37	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16122	chrY	10093916	.	G	A	375.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16123	chrY	10093917	.	G	T	40.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16124	chrY	10093918	.	C	A	378.04	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16125	chrY	10093920	.	T	A	372.75	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16126	chrY	10093928	.	T	C	36.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16127	chrY	10093939	.	T	C	416.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16128	chrY	10093959	.	C	G	319.43	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16129	chrY	10093964	.	T	A	271.15	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16130	chrY	10093968	.	G	T	266.93	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
16131	chrY	10093977	.	C	A	181.73	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
16132	chrY	10094025	.	G	A	135.16	my_snp_filter	AC=2;AF=0.031;AN=64;DP=32
16133	chrY	10094118	.	C	G	41.55	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
16134	chrY	10094119	.	A	G	40.75	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
16135	chrY	10094131	.	C	T	35.33	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
16136	chrY	10094132	.	A	G	35.26	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
16137	chrY	10094141	.	A	T	44.33	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
16138	chrY	10094142	.	A	C	43.02	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
16139	chrY	10094154	.	G	T	36.65	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
16140	chrY	10094156	.	C	G	39.72	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
16141	chrY	10094173	.	G	T	37.77	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
16142	chrY	10094183	.	A	T	36.66	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
16143	chrY	10094662	.	G	C	343.35	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
16144	chrY	10094665	.	A	T	343.47	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
16145	chrY	10094666	.	T	A	340.47	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
16146	chrY	10094689	.	G	T	351.04	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16147	chrY	10094694	.	G	T	357.04	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16148	chrY	10094729	.	C	G	122.74	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
16149	chrY	10104062	.	G	T	59.02	my_snp_filter	AC=2;AF=0.250;AN=8;DP=14;
16150	chrY	10104087	.	G	A	64.54	my_snp_filter	AC=2;AF=0.333;AN=6;DP=9;F
16151	chrY	10104089	.	C	T	62.11	my_snp_filter	AC=2;AF=0.500;AN=4;DP=11;
16152	chrY	10104090	.	T	A	60.95	my_snp_filter	AC=2;AF=0.333;AN=6;DP=11;
16153	chrY	10104096	.	G	T	64.85	my_snp_filter	AC=2;AF=0.500;AN=4;DP=6;F
16154	chrY	10104114	.	C	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=4;FS
16155	chrY	10104115	.	C	A	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=4;FS
16156	chrY	10104122	.	T	C	64.83	my_snp_filter	AC=2;AF=0.500;AN=4;DP=4;F
16157	chrY	10104132	.	A	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=4;FS
16158	chrY	10104134	.	A	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=4;FS
16159	chrY	10104336	.	A	T	47.86	my_snp_filter	AC=2;AF=0.250;AN=8;DP=10;
16160	chrY	10104354	.	G	T	56.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=11;F
16161	chrY	13105832	.	C	A	30.09	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
16162	chrY	13107615	.	G	C	56.82	PASS	AC=2;AF=0.125;AN=16;DP=23;FS=0.00
16163	chrY	13107631	.	T	C	51.11	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
16164	chrY	13107636	.	G	T	50.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
16165	chrY	13107644	.	T	A	50.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
16166	chrY	13107646	.	C	T	51.58	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
16167	chrY	13107656	.	A	T	57.86	PASS	AC=1;AF=0.500;AN=2;BaseQRankSum=
16168	chrY	13107662	.	C	T	54.90	my_snp_filter	AC=2;AF=0.125;AN=16;DP=23
16169	chrY	13107664	.	T	A	51.53	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
16170	chrY	13107670	.	G	T	58.94	my_snp_filter	AC=2;AF=0.167;AN=12;DP=24
16171	chrY	13107686	.	T	A	56.14	my_snp_filter	AC=2;AF=0.111;AN=18;DP=24
16172	chrY	13107688	.	C	G	200.79	my_snp_filter	AC=5;AF=0.833;AN=6;BaseQR
16173	chrY	13107691	.	G	T	55.89	my_snp_filter	AC=2;AF=0.125;AN=16;DP=22
16174	chrY	13107706	.	A	G	57.86	PASS	AC=1;AF=0.500;AN=2;BaseQRankSum=
16175	chrY	13107708	.	A	G	55.53	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
16176	chrY	13107713	.	C	A	58.53	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
16177	chrY	13107718	.	T	C	54.02	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=
16178	chrY	13107911	.	A	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=11;F
16179	chrY	13107928	.	G	A	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=10;F
16180	chrY	13107940	.	A	G	66.17	my_snp_filter	AC=2;AF=0.333;AN=6;DP=10;
16181	chrY	13107946	.	T	G	61.52	my_snp_filter	AC=2;AF=0.250;AN=8;DP=10;
16182	chrY	13107969	.	A	T	64.81	my_snp_filter	AC=2;AF=0.333;AN=6;DP=11;
16183	chrY	13107976	.	T	G	64.85	my_snp_filter	AC=2;AF=0.500;AN=4;DP=11;
16184	chrY	13108001	.	A	G	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=5;F
16185	chrY	13108004	.	G	T	63.27	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
16186	chrY	13108006	.	C	A	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
16187	chrY	13108008	.	G	A	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
16188	chrY	13108010	.	G	T	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F

16189	chrY	13108013	.	C	T	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
16190	chrY	13108014	.	A	G	63	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
16191	chrY	13108940	.	G	A	243.61	my_snp_filter	AC=2;AF=0.200;AN=10;BaseQ
16192	chrY	13109264	.	G	A	104.04	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
16193	chrY	13109267	.	G	C	312.11	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
16194	chrY	13109269	.	A	T	306.28	PASS	AC=4;AF=0.154;AN=26;DP=348;FS=0.0
16195	chrY	13109596	.	C	G	790.98	my_snp_filter	AC=4;AF=0.400;AN=10;BaseQ
16196	chrY	13109928	.	G	T,C	306.49	PASS	AC=1,2;AF=0.250,0.500;AN=4;BaseQR
16197	chrY	13109933	.	C	G	65.85	PASS	AC=2;AF=0.250;AN=8;DP=279;FS=0.00
16198	chrY	13109934	.	T	A	54.29	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
16199	chrY	13109961	.	T	C	67.84	PASS	AC=2;AF=1.00;AN=2;DP=254;FS=0.000
16200	chrY	13109962	.	A	T	57.86	PASS	AC=1;AF=0.500;AN=2;DP=254;FS=0.00
16201	chrY	13109968	.	G	A	51.77	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16202	chrY	13109971	.	C	A	50.60	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16203	chrY	13109976	.	C	A	50.62	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16204	chrY	13109983	.	T	A	57.86	my_snp_filter	AC=1;AF=0.500;AN=2;BaseQR
16205	chrY	13110324	.	C	T	279.59	my_snp_filter	AC=3;AF=0.250;AN=12;BaseQ
16206	chrY	13110531	.	G	A	196.57	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
16207	chrY	13110553	.	C	T	725.23	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
16208	chrY	13110566	.	G	A,C	752.84	my_snp_filter	AC=1,1;AF=0.071,0.071;AN=
16209	chrY	13110569	.	G	C	587.96	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
16210	chrY	13110662	.	C	G	125.86	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
16211	chrY	13112222	.	G	T	508.04	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
16212	chrY	13112766	.	G	A	456.28	my_snp_filter	AC=2;AF=0.167;AN=12;DP=88
16213	chrY	13114783	.	A	G	62.03	PASS	AC=2;AF=0.333;AN=6;DP=15;FS=0.000
16214	chrY	13114800	.	C	T	64.84	PASS	AC=2;AF=0.500;AN=4;DP=16;FS=0.000
16215	chrY	13114805	.	C	A	62.53	PASS	AC=2;AF=0.250;AN=8;DP=16;FS=0.000
16216	chrY	13114809	.	G	A	64.83	PASS	AC=2;AF=0.500;AN=4;DP=18;FS=0.000
16217	chrY	13114811	.	C	A	60.85	PASS	AC=2;AF=0.250;AN=8;DP=16;FS=0.000
16218	chrY	13114813	.	A	C	61.86	PASS	AC=2;AF=0.200;AN=10;DP=17;FS=0.00
16219	chrY	13121682	.	C	G	80.41	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
16220	chrY	13122191	.	A	C	114.68	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
16221	chrY	13122814	.	T	C	2957.45	my_snp_filter	AC=11;AF=0.786;AN=14;Base
16222	chrY	13122912	.	C	G	179.81	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
16223	chrY	13124650	.	T	G	123.83	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
16224	chrY	13127119	.	A	G	157.42	my_snp_filter	AC=11;AF=0.611;AN=18;Base
16225	chrY	13127471	.	G	T	933.91	PASS	AC=6;AF=0.088;AN=68;DP=666;FS=0.0
16226	chrY	13127517	.	C	G	1178.42	PASS	AC=6;AF=0.086;AN=70;DP=656;FS=0.0
16227	chrY	13128274	.	A	T	51.36	my_snp_filter	AC=4;AF=0.250;AN=16;DP=11
16228	chrY	13128577	.	C	T	938.46	my_snp_filter	AC=6;AF=0.150;AN=40;DP=15
16229	chrY	13128689	.	A	C	1870.48	PASS	AC=6;AF=0.107;AN=56;DP=253;FS=0.0
16230	chrY	13128978	.	G	T	1626.31	PASS	AC=6;AF=0.200;AN=30;DP=192;FS=0.0
16231	chrY	13129361	.	C	G	95.74	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
16232	chrY	13129449	.	A	G	1163.73	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
16233	chrY	13130901	.	G	A	2894.87	my_snp_filter	AC=18;AF=1.00;AN=18;DP=11
16234	chrY	13131003	.	G	A	3007.87	my_snp_filter	AC=18;AF=1.00;AN=18;DP=12
16235	chrY	13132137	.	A	T	33.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16236	chrY	13132141	.	C	T	40.70	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
16237	chrY	13132153	.	C	G	39.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16238	chrY	13132154	.	A	T	44.22	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
16239	chrY	13132287	.	T	A	11941.85	PASS	AC=56;AF=0.933;AN=60;DP=5
16240	chrY	13132704	.	C	T	752.85	PASS	AC=6;AF=0.333;AN=18;DP=102;FS=0.0
16241	chrY	13132710	.	C	A	840.22	PASS	AC=6;AF=0.333;AN=18;DP=98;FS=0.00
16242	chrY	13133254	.	A	T	51.24	PASS	AC=2;AF=0.071;AN=28;DP=233;FS=0.0
16243	chrY	13133259	.	T	A	51.44	PASS	AC=2;AF=0.083;AN=24;DP=234;FS=0.0
16244	chrY	13133263	.	G	C	97.43	PASS	AC=4;AF=0.167;AN=24;DP=232;FS=0.0
16245	chrY	13133273	.	A	T	51.23	PASS	AC=2;AF=0.071;AN=28;DP=244;FS=0.0
16246	chrY	13133291	.	C	T	51.64	PASS	AC=2;AF=0.091;AN=22;DP=238;FS=0.0
16247	chrY	13133300	.	G	T	311.39	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
16248	chrY	13133305	.	T	C	232.87	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
16249	chrY	13133720	.	T	G	84.47	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
16250	chrY	13133726	.	C	G	35.55	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
16251	chrY	13133745	.	G	A	42.01	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
16252	chrY	13133748	.	C	A	46.86	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
16253	chrY	13133750	.	A	T	88.84	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
16254	chrY	13133756	.	C	T	171.47	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
16255	chrY	13133760	.	T	A	43.95	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
16256	chrY	13133764	.	A	G	36.65	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
16257	chrY	13133765	.	T	A	45.11	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
16258	chrY	13133766	.	A	G	44.60	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
16259	chrY	13133776	.	C	T	121.21	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
16260	chrY	13133781	.	T	A	67.23	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
16261	chrY	13133791	.	A	T	108.52	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
16262	chrY	13133811	.	C	T	31.48	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
16263	chrY	13134208	.	C	G	1030.49	PASS	AC=6;AF=0.086;AN=70;DP=628;FS=0.0
16264	chrY	13134952	.	G	C	48.60	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=

16265	chrY	13134953	.	A	C	206.95	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
16266	chrY	13134955	.	G	A	67.30	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
16267	chrY	13134961	.	A	T	67.30	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
16268	chrY	13134964	.	C	T	114.79	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
16269	chrY	13134967	.	C	T	82.13	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
16270	chrY	13134968	.	A	G	67.30	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
16271	chrY	13135045	.	C	T	238.54	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
16272	chrY	13135099	.	C	G	4622.14	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
16273	chrY	13135113	.	A	T	4496.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
16274	chrY	13135132	.	C	T	4432.08	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
16275	chrY	13135133	.	A	G	4474.31	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
16276	chrY	13135139	.	C	T	48.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16277	chrY	13135140	.	A	G	4457.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
16278	chrY	13135143	.	G	T	4401.39	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
16279	chrY	13135146	.	G	T	4551.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
16280	chrY	13135194	.	C	T	8188.44	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16281	chrY	13135209	.	T	A	8581.15	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
16282	chrY	13135213	.	T	C	8722.39	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
16283	chrY	13135214	.	G	A	8683.02	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
16284	chrY	13135241	.	T	C	10449.79	PASS	AC=10;AF=0.143;AN=70;BaseQ
16285	chrY	13135246	.	A	G	10729.67	PASS	AC=10;AF=0.143;AN=70;BaseQ
16286	chrY	13135256	.	C	A	10831.70	PASS	AC=10;AF=0.143;AN=70;BaseQ
16287	chrY	13135257	.	A	G	1331.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16288	chrY	13135260	.	T	C	10815.68	PASS	AC=10;AF=0.143;AN=70;BaseQ
16289	chrY	13135261	.	G	T	10895.48	PASS	AC=10;AF=0.143;AN=70;BaseQ
16290	chrY	13135270	.	T	A	11159.91	PASS	AC=10;AF=0.143;AN=70;BaseQ
16291	chrY	13135284	.	A	T	11410.41	PASS	AC=9;AF=0.132;AN=68;BaseQ
16292	chrY	13135287	.	C	T	11655.82	PASS	AC=9;AF=0.132;AN=68;BaseQ
16293	chrY	13135289	.	C	G	11826.58	PASS	AC=9;AF=0.132;AN=68;BaseQ
16294	chrY	13135300	.	G	A	1697.09	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
16295	chrY	13135305	.	T	C	11715.65	PASS	AC=9;AF=0.132;AN=68;BaseQ
16296	chrY	13135315	.	G	T	11212.78	PASS	AC=9;AF=0.132;AN=68;BaseQ
16297	chrY	13135323	.	T	C	11269.53	PASS	AC=9;AF=0.132;AN=68;BaseQ
16298	chrY	13135324	.	G	A	11275.48	PASS	AC=9;AF=0.132;AN=68;BaseQ
16299	chrY	13135327	.	A	G	11357.15	PASS	AC=9;AF=0.132;AN=68;BaseQ
16300	chrY	13135347	.	A	T	11188.56	PASS	AC=8;AF=0.129;AN=62;BaseQ
16301	chrY	13135371	.	G	A	11038.26	PASS	AC=8;AF=0.190;AN=42;BaseQ
16302	chrY	13135375	.	G	T	10988.73	PASS	AC=8;AF=0.182;AN=44;BaseQ
16303	chrY	13135389	.	T	C	11268.81	PASS	AC=8;AF=0.200;AN=40;BaseQ
16304	chrY	13135408	.	T	C	11240.18	PASS	AC=8;AF=0.200;AN=40;BaseQ
16305	chrY	13135416	.	T	A	11598.98	PASS	AC=8;AF=0.267;AN=30;BaseQ
16306	chrY	13135417	.	A	G	11542.74	PASS	AC=8;AF=0.222;AN=36;BaseQ
16307	chrY	13135422	.	G	A	11662.51	PASS	AC=8;AF=0.211;AN=38;BaseQ
16308	chrY	13135435	.	T	C	193.47	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
16309	chrY	13135440	.	C	G	10785.64	PASS	AC=8;AF=0.222;AN=36;BaseQ
16310	chrY	13135444	.	A	C	88.83	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
16311	chrY	13135461	.	A	T	50.75	my_snp_filter	AC=2;AF=0.056;AN=36;DP=11
16312	chrY	13135463	.	G	A	50.75	my_snp_filter	AC=2;AF=0.056;AN=36;DP=11
16313	chrY	13135469	.	A	G	3040.26	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
16314	chrY	13135470	.	T	C	3606.55	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
16315	chrY	13135488	.	G	T	3322.34	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
16316	chrY	13135500	.	A	G,T	15984.36	PASS	AC=11,5;AF=0.344,0.156;AN
16317	chrY	13135536	.	T	A	6910.63	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
16318	chrY	13135556	.	C	G	15091.31	PASS	AC=16;AF=0.276;AN=58;BaseQ
16319	chrY	13135557	.	C	T	5115.15	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
16320	chrY	13135558	.	T	G	2717.24	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
16321	chrY	13135569	.	G	A,T	16856.18	PASS	AC=14,3;AF=0.259,0.056;AN
16322	chrY	13135573	.	G	C	2782.36	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16323	chrY	13135578	.	T	A	9633.60	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum=
16324	chrY	13135584	.	A	C	1351.94	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16325	chrY	13135587	.	A	T	1016.08	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
16326	chrY	13135593	.	G	C	340.34	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
16327	chrY	13135597	.	C	T	165.25	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16328	chrY	13135604	.	A	G	16326.17	PASS	AC=26;AF=0.394;AN=66;BaseQ
16329	chrY	13135620	.	G	A	2531.37	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
16330	chrY	13135656	.	T	G	13286.54	PASS	AC=30;AF=0.429;AN=70;BaseQ
16331	chrY	13135676	.	C	T	5658.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16332	chrY	13135684	.	T	G	5580.40	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16333	chrY	13135694	.	C	A	15503.69	PASS	AC=30;AF=0.441;AN=68;BaseQ
16334	chrY	13135695	.	G	A	5161.32	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16335	chrY	13135708	.	C	G	4767.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16336	chrY	13135710	.	G	A	10404.59	PASS	AC=25;AF=0.403;AN=62;BaseQ
16337	chrY	13135714	.	A	T	4422.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16338	chrY	13135715	.	A	G	4474.44	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
16339	chrY	13135719	.	T	C	4282.52	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
16340	chrY	13135727	.	G	C	4030.52	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=

16341	chrY	13135730	.	C	T	14914.32	PASS	AC=31;AF=0.443;AN=70;Base
16342	chrY	13135735	.	C	T	13948.53	PASS	AC=29;AF=0.414;AN=70;Base
16343	chrY	13135740	.	C	T	13326.90	PASS	AC=30;AF=0.429;AN=70;Base
16344	chrY	13135751	.	T	C	11958.03	PASS	AC=25;AF=0.357;AN=70;Base
16345	chrY	13135757	.	A	G	2585.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16346	chrY	13135767	.	G	T	9814.46	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
16347	chrY	13135774	.	T	A	1584.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16348	chrY	13135778	.	G	C	8367.02	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
16349	chrY	13135787	.	T	G	1025.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16350	chrY	13135788	.	A	G	733.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16351	chrY	13135789	.	A	C	266.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16352	chrY	13135792	.	G	T	6701.96	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
16353	chrY	13135799	.	G	C,T	5767.13	PASS	AC=10,2;AF=0.152,0.030;AN=66;Base
16354	chrY	13135801	.	T	G	5382.58	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
16355	chrY	13135804	.	A	G	6268.84	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
16356	chrY	13135820	.	A	T	415.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16357	chrY	13135825	.	T	A	5889.50	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
16358	chrY	13135831	.	C	T	5806.33	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
16359	chrY	13135844	.	C	T	5656.59	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
16360	chrY	13135848	.	A	G	4334.89	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
16361	chrY	13135852	.	G	A	5498.60	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
16362	chrY	13135853	.	G	A	4306.59	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
16363	chrY	13135866	.	G	A	3917.26	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
16364	chrY	13135867	.	A	G	969.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16365	chrY	13135888	.	A	T	12424.42	PASS	AC=15;AF=0.214;AN=70;Base
16366	chrY	13135897	.	T	C	17683.26	PASS	AC=21;AF=0.300;AN=70;Base
16367	chrY	13135898	.	G	C	2917.07	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
16368	chrY	13135902	.	T	C	14013.96	PASS	AC=15;AF=0.214;AN=70;Base
16369	chrY	13135914	.	T	G	14176.60	PASS	AC=15;AF=0.214;AN=70;Base
16370	chrY	13135919	.	G	A	19218.06	PASS	AC=21;AF=0.300;AN=70;Base
16371	chrY	13135924	.	G	A	19602.06	PASS	AC=21;AF=0.300;AN=70;Base
16372	chrY	13135929	.	A	C	14206.70	PASS	AC=15;AF=0.214;AN=70;Base
16373	chrY	13135932	.	G	A	3875.36	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
16374	chrY	13135939	.	C	A	4299.50	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
16375	chrY	13135941	.	G	A	20791.62	PASS	AC=17;AF=0.266;AN=64;Base
16376	chrY	13135947	.	T	C	21234.54	PASS	AC=17;AF=0.243;AN=70;Base
16377	chrY	13135951	.	A	G	7200.50	my_snp_filter	AC=14;AF=0.200;AN=70;Base
16378	chrY	13135955	.	A	G	4712.15	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
16379	chrY	13135972	.	G	C	5383.83	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
16380	chrY	13135977	.	A	G	5520.27	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
16381	chrY	13135978	.	C	T	21718.87	PASS	AC=18;AF=0.265;AN=68;Base
16382	chrY	13135979	.	C	G	21663.87	PASS	AC=18;AF=0.265;AN=68;Base
16383	chrY	13135994	.	G	A	20948.64	PASS	AC=18;AF=0.281;AN=64;Base
16384	chrY	13136020	.	G	C	8266.96	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
16385	chrY	13136022	.	C	A	9032.89	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
16386	chrY	13136023	.	C	G	19869.40	PASS	AC=24;AF=0.353;AN=68;Base
16387	chrY	13136025	.	G	T,A	13297.28	PASS	AC=16,13;AF=0.235,0.191;A
16388	chrY	13136029	.	G	A	8248.66	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
16389	chrY	13136038	.	T	C	7067.27	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
16390	chrY	13136045	.	C	T	5938.58	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
16391	chrY	13136049	.	C	A	5557.54	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
16392	chrY	13136053	.	C	T	12076.15	PASS	AC=21;AF=0.318;AN=66;Base
16393	chrY	13136054	.	A	G	14966.56	PASS	AC=21;AF=0.318;AN=66;Base
16394	chrY	13136060	.	A	C	4295.61	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
16395	chrY	13136061	.	T	C	4129.31	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
16396	chrY	13136077	.	G	A	725.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16397	chrY	13136083	.	T	C	665.99	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16398	chrY	13136091	.	T	G	5850.08	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
16399	chrY	13136094	.	A	G	120.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16400	chrY	13136095	.	C	T	119.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16401	chrY	13136098	.	A	G	35.58	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16402	chrY	13136101	.	C	G	34.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16403	chrY	13136102	.	T	A	34.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16404	chrY	13136114	.	A	C	3827.13	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
16405	chrY	13136119	.	C	A	3600.13	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
16406	chrY	13136139	.	T	C	3278.71	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
16407	chrY	13136145	.	G	A	2899.53	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
16408	chrY	13136182	.	A	C	2275.24	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
16409	chrY	13136187	.	T	G	2231.30	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
16410	chrY	13136218	.	T	C	1204.24	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
16411	chrY	13136237	.	A	G	1087.88	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
16412	chrY	13136238	.	A	C	1087.88	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
16413	chrY	13136250	.	T	A	1003.89	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
16414	chrY	13136261	.	C	A	958.83	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
16415	chrY	13136265	.	A	C	912.42	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
16416	chrY	13136270	.	C	T	867.45	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=

16417	chrY	13136286	.	T	C	790.05	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
16418	chrY	13136454	.	C	T	86.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16419	chrY	13136457	.	T	C	78.92	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
16420	chrY	13136464	.	G	A	69.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16421	chrY	13136468	.	T	G	70.68	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16422	chrY	13136499	.	C	T	77.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16423	chrY	13136512	.	T	C	124.08	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
16424	chrY	13136544	.	G	A	63.67	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
16425	chrY	13136551	.	C	T	130.78	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
16426	chrY	13136565	.	T	C	125.76	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
16427	chrY	13136576	.	A	G	61.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16428	chrY	13136578	.	G	A	226.52	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
16429	chrY	13136586	.	A	C	141.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16430	chrY	13136589	.	A	T	152.25	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
16431	chrY	13136590	.	G	T	151.74	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
16432	chrY	13136620	.	C	A	176.92	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
16433	chrY	13136621	.	G	A	221.47	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
16434	chrY	13136623	.	C	A	245.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16435	chrY	13136628	.	T	C	259.14	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
16436	chrY	13136638	.	A	G	182.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16437	chrY	13136642	.	T	G	265.43	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
16438	chrY	13136648	.	C	A	296	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
16439	chrY	13136665	.	A	C	270.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16440	chrY	13136681	.	A	T	195.60	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
16441	chrY	13136684	.	A	G	190.07	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
16442	chrY	13136691	.	T	C	140.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16443	chrY	13136991	.	G	C	554.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16444	chrY	13136992	.	T	G	305.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16445	chrY	13136998	.	G	A	43.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16446	chrY	13137000	.	A	C	798.20	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
16447	chrY	13137001	.	T	C	786.97	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
16448	chrY	13137003	.	A	C	1463.71	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
16449	chrY	13137007	.	A	C	1085.10	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
16450	chrY	13137014	.	C	A	628.23	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
16451	chrY	13137145	.	C	G	104.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16452	chrY	13137153	.	A	T	114	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
16453	chrY	13137158	.	C	T	142.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16454	chrY	13137161	.	C	T	145.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16455	chrY	13137530	.	C	A	387.39	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16456	chrY	13137538	.	A	C	383.91	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16457	chrY	13137539	.	A	C	381.12	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16458	chrY	13137542	.	T	C	342.54	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
16459	chrY	13137549	.	T	G	344.85	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
16460	chrY	13137550	.	G	A	346.21	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
16461	chrY	13137556	.	T	G	348.45	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16462	chrY	13137557	.	C	A	348	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16463	chrY	13137600	.	G	A	557.45	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
16464	chrY	13137607	.	T	C	488.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16465	chrY	13137632	.	C	T	46.32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16466	chrY	13138179	.	A	T	210.83	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
16467	chrY	13138181	.	C	A	133.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16468	chrY	13138622	.	A	C	47.87	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
16469	chrY	13138782	.	A	C	49.13	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16470	chrY	13138799	.	T	C	43.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16471	chrY	13138801	.	T	C	63.58	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
16472	chrY	13138802	.	A	T	40.50	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
16473	chrY	13138811	.	C	A	43.17	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16474	chrY	13138813	.	T	C	94.08	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
16475	chrY	13138814	.	C	T	50.17	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
16476	chrY	13139028	.	C	T	1510.57	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
16477	chrY	13139036	.	A	C	1141.91	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
16478	chrY	13139038	.	T	A	1012.91	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
16479	chrY	13139043	.	C	A	788.92	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
16480	chrY	13139046	.	A	C	580.67	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
16481	chrY	13139051	.	A	C	405.19	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
16482	chrY	13139055	.	C	A	324.65	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
16483	chrY	13139058	.	A	C	91.38	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
16484	chrY	13139062	.	A	G	88.68	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
16485	chrY	13139063	.	C	T	44.19	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
16486	chrY	13139740	.	A	T	61.31	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
16487	chrY	13139741	.	T	C	60.95	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
16488	chrY	13139814	.	G	T	442.07	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
16489	chrY	13139867	.	A	C	132.38	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
16490	chrY	13139869	.	C	T	146.58	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
16491	chrY	13139876	.	G	C	12960.28	PASS	AC=48;AF=0.960;AN=50;DP=8
16492	chrY	13139882	.	A	C	50.71	PASS	AC=2;AF=0.037;AN=54;DP=975;FS=0.0

16493	chrY	13139885	.	G	T	11832.88	PASS	AC=48;AF=1.00;AN=48;DP=73
16494	chrY	13139887	.	G	T	11541.65	PASS	AC=46;AF=1.00;AN=46;DP=72
16495	chrY	13139888	.	T	A	93.27	PASS	AC=2;AF=0.037;AN=54;DP=820;FS=0.0
16496	chrY	13139893	.	G	T	10248.89	PASS	AC=48;AF=1.00;AN=48;DP=60
16497	chrY	13139896	.	G	A	9756.97	PASS	AC=46;AF=1.00;AN=46;DP=608;FS=0.0
16498	chrY	13139902	.	G	A	8527.11	PASS	AC=46;AF=1.00;AN=46;DP=644;FS=0.0
16499	chrY	13139919	.	G	A	6097.19	PASS	AC=42;AF=1.00;AN=42;DP=275;FS=0.0
16500	chrY	13139931	.	G	A	4387.36	PASS	AC=40;AF=1.00;AN=40;DP=230;FS=0.0
16501	chrY	13139937	.	G	A	3892.45	PASS	AC=40;AF=1.00;AN=40;DP=215;FS=0.0
16502	chrY	13139945	.	G	A	3262.52	PASS	AC=38;AF=1.00;AN=38;DP=183;FS=0.0
16503	chrY	13139947	.	G	C	3037.57	PASS	AC=38;AF=1.00;AN=38;DP=178;FS=0.0
16504	chrY	13139954	.	G	T	2002.57	PASS	AC=26;AF=1.00;AN=26;DP=138;FS=0.0
16505	chrY	13139973	.	G	A	383.44	PASS	AC=10;AF=1.00;AN=10;DP=40;FS=0.00
16506	chrY	13139980	.	G	C	202.69	PASS	AC=4;AF=1.00;AN=4;DP=35;FS=0.000
16507	chrY	13139982	.	G	T	202.69	PASS	AC=4;AF=1.00;AN=4;DP=35;FS=0.000
16508	chrY	13139983	.	G	T	202.69	PASS	AC=4;AF=1.00;AN=4;DP=35;FS=0.000
16509	chrY	13139985	.	G	C	202.69	PASS	AC=4;AF=1.00;AN=4;DP=34;FS=0.000
16510	chrY	13140468	.	C	T	187.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16511	chrY	13140486	.	C	T	209.97	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
16512	chrY	13140491	.	T	C	263.44	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16513	chrY	13140492	.	C	A	380.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16514	chrY	13140547	.	T	A	306.70	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
16515	chrY	13140716	.	T	A	120.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16516	chrY	13141183	.	T	C	98.86	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
16517	chrY	13141195	.	T	A	92.89	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16518	chrY	13141199	.	A	T	88.44	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
16519	chrY	13141200	.	C	T	95.92	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16520	chrY	13141205	.	A	T	96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
16521	chrY	13141225	.	A	T	114.99	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
16522	chrY	13141387	.	A	C	141.38	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
16523	chrY	13141396	.	T	A	126.06	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
16524	chrY	13141403	.	C	T	114.77	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
16525	chrY	13141414	.	C	T	35.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16526	chrY	13141424	.	A	C	32.59	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
16527	chrY	13141737	.	G	T	116.35	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
16528	chrY	13141812	.	T	G	169.67	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
16529	chrY	13141821	.	C	T	187.15	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
16530	chrY	13141834	.	T	C	119.53	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
16531	chrY	13142156	.	G	C	141.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16532	chrY	13142159	.	G	C	137.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16533	chrY	13142164	.	C	A	239.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16534	chrY	13142169	.	G	A	150.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16535	chrY	13142172	.	C	T	76.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
16536	chrY	13142181	.	C	T	30.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16537	chrY	13142195	.	C	A	764.08	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16538	chrY	13142197	.	A	C	62.91	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
16539	chrY	13142198	.	C	T	977.67	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16540	chrY	13142199	.	A	T	37.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16541	chrY	13142204	.	A	T	67.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16542	chrY	13142205	.	T	C	33.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16543	chrY	13142206	.	T	C	776.66	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
16544	chrY	13142211	.	T	A	33.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16545	chrY	13142212	.	C	G	42.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16546	chrY	13142214	.	T	A	996.55	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
16547	chrY	13142597	.	G	T	27637.88	PASS	AC=66;AF=1.00;AN=66;DP=92
16548	chrY	13142801	.	C	T	1073.71	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
16549	chrY	13142802	.	C	A	1074.19	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
16550	chrY	13143006	.	C	T	132.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16551	chrY	13143009	.	T	C	108.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16552	chrY	13143016	.	C	T	103.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16553	chrY	13143231	.	G	C,*	4469.99	PASS	AC=16,7;AF=0.471,0.206;AN=34;DP=5
16554	chrY	13143346	.	C	G	124.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16555	chrY	13143350	.	T	C	113.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16556	chrY	13143351	.	C	T	84.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16557	chrY	13143357	.	C	A	188.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16558	chrY	13143360	.	G	A	212.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16559	chrY	13143361	.	A	G	259.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16560	chrY	13143363	.	C	G	186.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16561	chrY	13143366	.	G	A	219.57	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
16562	chrY	13143376	.	T	A	122.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16563	chrY	13143377	.	C	G	207.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16564	chrY	13143379	.	G	A	37.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16565	chrY	13143380	.	G	T	46.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16566	chrY	13143401	.	C	A	43.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16567	chrY	13143406	.	C	A	37.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16568	chrY	13143417	.	T	C	116.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

16569	chrY	13143421	.	A	C	50.27	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16570	chrY	13143423	.	C	T	117.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16571	chrY	13143427	.	C	G	44.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16572	chrY	13143432	.	T	C	128.68	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
16573	chrY	13143433	.	T	C	332.20	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
16574	chrY	13143451	.	A	T	136.09	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
16575	chrY	13143573	.	G	A	33792.91	PASS	AC=70;AF=1.00;AN=70;BaseQ
16576	chrY	13143581	.	T	C	45.83	PASS	AC=2;AF=0.029;AN=70;DP=1082;FS=0.
16577	chrY	13143777	.	C	T	65.92	PASS	AC=2;AF=0.037;AN=54;DP=2133;FS=0
16578	chrY	13143782	.	C	T	39.15	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
16579	chrY	13143784	.	G	C	53.35	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
16580	chrY	13194673	.	T	C	36311.88	PASS	AC=70;AF=1.00;AN=70;DP=11
16581	chrY	13194828	.	C	T	157.28	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
16582	chrY	13194834	.	C	T	131.93	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16583	chrY	13194855	.	A	C	209.89	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16584	chrY	13194880	.	C	T	68.04	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16585	chrY	13194884	.	T	C	809.63	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
16586	chrY	13194913	.	G	C	1153.01	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
16587	chrY	13194914	.	G	C	1207.63	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
16588	chrY	13194925	.	T	G	1607.89	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
16589	chrY	13194935	.	A	C	1740.01	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
16590	chrY	13194938	.	G	A	1730.84	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
16591	chrY	13194948	.	A	G	1896.57	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
16592	chrY	13194964	.	C	A	2301.81	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
16593	chrY	13194970	.	T	A	2493.45	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
16594	chrY	13194989	.	C	T	3098.53	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
16595	chrY	13194996	.	G	C	31.88	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16596	chrY	13195001	.	C	G	3172.02	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16597	chrY	13195018	.	A	C	325.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16598	chrY	13195019	.	C	A	1556.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16599	chrY	13195033	.	A	T	1505.81	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
16600	chrY	13195034	.	C	T	887.75	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
16601	chrY	13195035	.	A	G	2709.48	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
16602	chrY	13195039	.	C	T	1088.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16603	chrY	13195057	.	T	C	1865.26	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
16604	chrY	13195061	.	C	T	1790.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16605	chrY	13195066	.	C	A	197.90	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
16606	chrY	13195071	.	T	C	6809.88	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
16607	chrY	13195073	.	T	A	1411.12	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
16608	chrY	13195103	.	A	C	641.97	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
16609	chrY	13195107	.	A	C	1947.80	PASS	AC=14;AF=0.350;AN=40;BaseQRankSum=
16610	chrY	13195115	.	C	T	779.29	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
16611	chrY	13195116	.	G	A	864.85	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
16612	chrY	13195121	.	G	A	861.10	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
16613	chrY	13195132	.	G	C	417.01	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
16614	chrY	13195138	.	C	T	1274.23	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
16615	chrY	13195139	.	G	A	323.71	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
16616	chrY	13195145	.	T	C	276.83	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
16617	chrY	13195148	.	C	T	280.80	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
16618	chrY	13195156	.	T	C	197.94	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
16619	chrY	13195161	.	A	T	1233.60	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
16620	chrY	13195174	.	T	C	856.10	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
16621	chrY	13195175	.	C	T	864.92	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
16622	chrY	13195183	.	A	C	661.10	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
16623	chrY	13195198	.	C	G,*	2123.03	PASS	AC=4,3;AF=0.067,0.050;AN=60;BaseQ
16624	chrY	13195199	.	C	T,*	2114.66	PASS	AC=4,3;AF=0.063,0.047;AN=64;BaseQ
16625	chrY	13195200	.	T	G,*	2153.93	PASS	AC=4,3;AF=0.071,0.054;AN=56;BaseQ
16626	chrY	13195214	.	C	T,*	462.32	PASS	AC=1,3;AF=0.015,0.045;AN=66;BaseQ
16627	chrY	13195215	.	A	G	293.42	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
16628	chrY	13195219	.	C	T	277.20	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
16629	chrY	13195220	.	A	G	118.47	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16630	chrY	13195230	.	A	G	101.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16631	chrY	13195234	.	C	T	58.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16632	chrY	13195235	.	A	G	59.75	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16633	chrY	13195248	.	A	T	147.20	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
16634	chrY	13195252	.	G	T	610.17	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
16635	chrY	13195271	.	T	C	188.80	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
16636	chrY	13195493	.	G	C	248.69	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
16637	chrY	13195697	.	A	T	115.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16638	chrY	13195712	.	T	C	1714.81	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
16639	chrY	13195722	.	A	T	2715.10	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
16640	chrY	13195724	.	T	C	997.16	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
16641	chrY	13195727	.	A	C	2647.58	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
16642	chrY	13195735	.	C	G	90.26	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
16643	chrY	13195741	.	A	T,*	2399.31	PASS	AC=6,2;AF=0.107,0.036;AN=56;BaseQ
16644	chrY	13195751	.	C	A,*	843.78	PASS	AC=2,3;AF=0.030,0.045;AN=66;BaseQ

16645	chrY	13195756	.	A	C	2735.61	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
16646	chrY	13195770	.	C	T,*	2429.66	PASS	AC=7,1;AF=0.117,0.017;AN=60;BaseQ
16647	chrY	13195773	.	C	T,*	2370.77	PASS	AC=7,1;AF=0.117,0.017;AN=60;BaseQ
16648	chrY	13195781	.	C	T	684.73	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
16649	chrY	13195791	.	A	C,*	2025.36	PASS	AC=7,1;AF=0.159,0.023;AN=44;BaseQ
16650	chrY	13195802	.	T	A,*	1511.41	PASS	AC=7,1;AF=0.184,0.026;AN=38;BaseQ
16651	chrY	13195803	.	A	C	1492.96	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=
16652	chrY	13195821	.	C	T	1162.77	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
16653	chrY	13195823	.	T	C	277.10	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
16654	chrY	13195826	.	T	A	372.04	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
16655	chrY	13195835	.	A	C	1417.96	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
16656	chrY	13195842	.	A	T	1069.23	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
16657	chrY	13195843	.	T	C	1036.41	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
16658	chrY	13195860	.	C	A	435.21	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
16659	chrY	13195870	.	A	G	540.46	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
16660	chrY	13195872	.	C	T	533.57	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
16661	chrY	13195874	.	G	A	357.62	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
16662	chrY	13195876	.	G	A	1111.62	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
16663	chrY	13195878	.	G	A,T	1034	PASS	AC=2,4;AF=0.050,0.100;AN=40;BaseQ
16664	chrY	13195880	.	C	G	527.94	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
16665	chrY	13195890	.	T	C	1113.52	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
16666	chrY	13195891	.	C	A	540.49	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
16667	chrY	13195893	.	A	C	441.52	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
16668	chrY	13195894	.	G	A	444.30	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
16669	chrY	13195904	.	C	T	455.50	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
16670	chrY	13195931	.	A	C	308.80	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
16671	chrY	13195935	.	C	T	303.10	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
16672	chrY	13195939	.	T	A	302.20	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
16673	chrY	13195947	.	T	A	302.70	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16674	chrY	13195949	.	A	T	64	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
16675	chrY	13195952	.	A	G,T	399.84	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
16676	chrY	13195954	.	A	C	297.25	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
16677	chrY	13195962	.	C	T	294.96	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16678	chrY	13195965	.	C	T	385.34	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
16679	chrY	13195969	.	G	A	304.84	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
16680	chrY	13195979	.	A	T	56.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16681	chrY	13195988	.	C	T	231.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16682	chrY	13195998	.	T	C	231.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16683	chrY	13195999	.	G	A	138.45	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16684	chrY	13196009	.	G	A	1484.53	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
16685	chrY	13196015	.	G	T	1515.57	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
16686	chrY	13196018	.	G	A	1525.48	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
16687	chrY	13196044	.	C	A	4384.57	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
16688	chrY	13196059	.	G	A	4002.67	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
16689	chrY	13196089	.	G	A	3777.19	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
16690	chrY	13196092	.	A	C	3805.94	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
16691	chrY	13196103	.	C	T	3251.28	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
16692	chrY	13196105	.	C	A	3298.27	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
16693	chrY	13196122	.	C	A	1813.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16694	chrY	13196123	.	C	A	1813.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16695	chrY	13196127	.	C	A	255.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16696	chrY	13196129	.	A	C	257.40	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16697	chrY	13196132	.	G	C	5446.57	PASS	AC=17;AF=0.304;AN=56;BaseQRankSum=
16698	chrY	13196140	.	T	C	2440.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
16699	chrY	13196142	.	A	C	6287.50	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum=
16700	chrY	13196144	.	A	G	275.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16701	chrY	13196148	.	G	A	173.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16702	chrY	13196150	.	C	T	564.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16703	chrY	13196159	.	A	T	50.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16704	chrY	13196168	.	T	C	4023.94	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum=
16705	chrY	13196169	.	A	C,T	2810.52	PASS	AC=13,3;AF=0.271,0.063;AN=48;Base
16706	chrY	13196173	.	C	A	479.41	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16707	chrY	13196174	.	A	T	62.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16708	chrY	13196176	.	C	T	657.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
16709	chrY	13196182	.	C	T	80.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16710	chrY	13196193	.	A	C	1240.72	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
16711	chrY	13196194	.	A	T	170.96	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
16712	chrY	13196196	.	T	A,*	2089.20	PASS	AC=8,11;AF=0.121,0.167;AN=66;Base
16713	chrY	13196200	.	T	C,*	2046.21	PASS	AC=8,11;AF=0.118,0.162;AN=68;Base
16714	chrY	13196203	.	C	T	30.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16715	chrY	13196204	.	A	G	37.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16716	chrY	13196207	.	C	A	218.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16717	chrY	13196218	.	C	A	48.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16718	chrY	13196224	.	T	G	491.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16719	chrY	13196227	.	C	A	37.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
16720	chrY	13196228	.	C	G	1405.18	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=

16721	chrY	13196234	.	A	T	159.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16722	chrY	13196237	.	C	T	502.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16723	chrY	13196239	.	A	G	48.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16724	chrY	13196249	.	A	T,*	989.49	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
16725	chrY	13196254	.	A	T	124.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16726	chrY	13196258	.	C	A	135.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16727	chrY	13196261	.	T	A,*	501.47	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
16728	chrY	13196262	.	C	G,*	266.78	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
16729	chrY	13196265	.	C	A,*	399.33	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
16730	chrY	13196270	.	C	G	284.77	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
16731	chrY	13196275	.	G	C,T	410.69	PASS	AC=3,1;AF=0.083,0.028;AN=36;BaseQ
16732	chrY	13196283	.	T	C	376.44	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
16733	chrY	13196323	.	C	T	196.68	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
16734	chrY	13196342	.	G	A	143.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16735	chrY	13196375	.	A	T	173.66	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
16736	chrY	13196379	.	T	C	79.50	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
16737	chrY	13196396	.	A	G	203.53	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
16738	chrY	13196403	.	G	A	319.06	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
16739	chrY	13196416	.	A	T	148.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16740	chrY	13196420	.	C	T	46.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16741	chrY	13196421	.	A	G	44.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16742	chrY	13196422	.	T	C	98.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16743	chrY	13196424	.	C	G	100.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16744	chrY	13196432	.	T	A	104.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16745	chrY	13196436	.	C	G	157.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16746	chrY	13196437	.	C	T	150.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16747	chrY	13197085	.	C	T	1058.24	PASS	AC=6;AF=0.086;AN=70;DP=470;FS=0.0
16748	chrY	13198176	.	T	A	236.56	PASS	AC=2;AF=0.029;AN=70;DP=294;FS=0.0
16749	chrY	13198580	.	C	T	876.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16750	chrY	13200604	.	G	T	1065.90	PASS	AC=6;AF=0.086;AN=70;DP=395;FS=0.0
16751	chrY	13203831	.	C	G	18557.58	PASS	AC=52;AF=1.00;AN=52;DP=57
16752	chrY	13203837	.	C	G	17879.97	PASS	AC=54;AF=1.00;AN=54;DP=53
16753	chrY	13203843	.	A	G	16583.67	PASS	AC=52;AF=1.00;AN=52;DP=47
16754	chrY	13203844	.	C	T	16131.92	PASS	AC=52;AF=1.00;AN=52;DP=46
16755	chrY	13203845	.	C	G	15681.92	PASS	AC=52;AF=1.00;AN=52;DP=46
16756	chrY	13203849	.	A	G	14648.67	PASS	AC=52;AF=1.00;AN=52;DP=43
16757	chrY	13203872	.	C	T	9286.08	PASS	AC=50;AF=1.00;AN=50;DP=288;FS=0.0
16758	chrY	13203875	.	C	G	8484.03	PASS	AC=48;AF=1.00;AN=48;DP=254;FS=0.0
16759	chrY	13203877	.	T	G	7635.05	PASS	AC=48;AF=1.00;AN=48;DP=243;FS=0.0
16760	chrY	13203900	.	A	G	1828.34	PASS	AC=18;AF=1.00;AN=18;DP=55;FS=0.00
16761	chrY	13203901	.	C	T	1693.54	PASS	AC=18;AF=1.00;AN=18;DP=53;FS=0.00
16762	chrY	13203908	.	C	A	652.06	PASS	AC=6;AF=1.00;AN=6;DP=36;FS=0.000;
16763	chrY	13203910	.	C	T	652.06	my_snp_filter	AC=6;AF=1.00;AN=6;DP=29;FS=0.000;
16764	chrY	13203913	.	C	T	517.19	my_snp_filter	AC=6;AF=1.00;AN=6;DP=25;FS=0.000;
16765	chrY	13203917	.	G	A	247.54	my_snp_filter	AC=4;AF=1.00;AN=4;DP=20;FS=0.000;
16766	chrY	13203922	.	C	T	158.18	my_snp_filter	AC=4;AF=1.00;AN=4;DP=18;FS=0.000;
16767	chrY	13203925	.	C	T	246.93	PASS	AC=2;AF=1.00;AN=2;DP=24;FS=0.000;
16768	chrY	13203929	.	G	A	336.88	PASS	AC=2;AF=1.00;AN=2;DP=28;FS=0.000;
16769	chrY	13203936	.	A	T	561.86	PASS	AC=2;AF=1.00;AN=2;DP=32;FS=0.000;
16770	chrY	13203943	.	T	G	718.62	PASS	AC=2;AF=0.067;AN=30;DP=72;FS=0.000;
16771	chrY	13203945	.	A	T	741.86	PASS	AC=2;AF=1.00;AN=2;DP=77;FS=0.000;
16772	chrY	13203955	.	C	G	921.86	PASS	AC=2;AF=1.00;AN=2;DP=113;FS=0.000;
16773	chrY	13203958	.	C	G	1101.86	PASS	AC=2;AF=1.00;AN=2;DP=113;FS=0.000;
16774	chrY	13203961	.	T	A	1123.07	PASS	AC=2;AF=0.067;AN=30;DP=139;FS=0.000;
16775	chrY	13203971	.	C	T	1641.86	PASS	AC=2;AF=1.00;AN=2;DP=223;FS=0.000;
16776	chrY	13204163	.	A	T	234.24	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
16777	chrY	13204181	.	C	T	283.70	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
16778	chrY	13204196	.	C	A,T	39406.82	PASS	AC=68,1;AF=0.971,0.014;AN=68
16779	chrY	13204205	.	G	A	38720.64	PASS	AC=69;AF=0.986;AN=70;BaseQRankSum=
16780	chrY	13204215	.	A	G	216.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16781	chrY	13204260	.	T	G	27573.18	PASS	AC=69;AF=0.986;AN=70;BaseQRankSum=
16782	chrY	13204293	.	T	G	20830.11	PASS	AC=64;AF=0.914;AN=70;BaseQRankSum=
16783	chrY	13204300	.	G	A	21019.66	PASS	AC=66;AF=0.971;AN=68;BaseQRankSum=
16784	chrY	13204307	.	G	A	21460.47	PASS	AC=66;AF=0.971;AN=68;BaseQRankSum=
16785	chrY	13204326	.	T	G	23107.65	PASS	AC=67;AF=0.985;AN=68;BaseQRankSum=
16786	chrY	13204349	.	G	T	4390.73	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
16787	chrY	13204353	.	T	C	1083.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16788	chrY	13204363	.	G	A	20696.17	PASS	AC=64;AF=0.914;AN=70;BaseQRankSum=
16789	chrY	13204366	.	G	A	5099.59	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
16790	chrY	13204380	.	T	G	21699.17	PASS	AC=64;AF=0.914;AN=70;BaseQRankSum=
16791	chrY	13204426	.	A	G	4530.35	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
16792	chrY	13204430	.	T	A	27276.69	PASS	AC=67;AF=0.957;AN=70;BaseQRankSum=
16793	chrY	13204463	.	T	C	9253.11	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
16794	chrY	13204477	.	G	A	8348.29	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
16795	chrY	13204519	.	T	A	1122	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
16796	chrY	13204529	.	G	A	240.57	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=

16797	chrY	13204616	.	A	G	525.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
16798	chrY	13204644	.	A	G	159.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16799	chrY	13209765	.	C	A	413.24	PASS	AC=2;AF=0.029;AN=70;DP=640;FS=0.0
16800	chrY	13210264	.	T	C	11239.11	PASS	AC=54;AF=0.818;AN=66;Base
16801	chrY	13211940	.	G	A	1277.18	PASS	AC=6;AF=0.086;AN=70;DP=514;FS=0.0
16802	chrY	13213581	.	G	A	1241.54	PASS	AC=6;AF=0.086;AN=70;DP=580;FS=0.0
16803	chrY	13213680	.	A	G	10141.97	PASS	AC=54;AF=0.818;AN=66;DP=4
16804	chrY	13215759	.	C	T	30.98	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16805	chrY	13215782	.	A	G	34.87	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16806	chrY	13217107	.	G	A	1465.52	PASS	AC=6;AF=0.088;AN=68;DP=472;FS=0.0
16807	chrY	13219524	.	G	C	211.24	PASS	AC=2;AF=0.042;AN=48;DP=144;FS=0.0
16808	chrY	13221316	.	C	T	120.36	PASS	AC=2;AF=0.029;AN=70;DP=430;FS=0.0
16809	chrY	13222067	.	G	A	111.88	PASS	AC=4;AF=0.167;AN=24;DP=110;FS=0.0
16810	chrY	13222265	.	G	A	77.02	PASS	AC=2;AF=0.200;AN=10;DP=42;FS=0.00
16811	chrY	13222384	.	A	G	226.71	PASS	AC=2;AF=0.167;AN=12;DP=72;FS=0.00
16812	chrY	13222391	.	G	A	183.75	PASS	AC=2;AF=0.100;AN=20;DP=77;FS=0.00
16813	chrY	13222398	.	A	T	187.07	PASS	AC=2;AF=0.100;AN=20;DP=73;FS=0.00
16814	chrY	13222399	.	G	A	182.07	PASS	AC=2;AF=0.100;AN=20;DP=73;FS=0.00
16815	chrY	13222879	.	G	T	454.97	PASS	AC=4;AF=1.00;AN=4;DP=69;FS=0.000;
16816	chrY	13222880	.	G	T	454.97	PASS	AC=4;AF=1.00;AN=4;DP=69;FS=0.000;
16817	chrY	13223248	.	G	C	44.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
16818	chrY	13223260	.	G	T	45.59	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
16819	chrY	13223340	.	G	A	343.54	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
16820	chrY	13223417	.	A	G	159.33	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
16821	chrY	13224272	.	C	T	363.05	PASS	AC=2;AF=0.029;AN=68;DP=452;FS=0.0
16822	chrY	13228027	.	G	T	9690.51	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=
16823	chrY	13228634	.	C	A	291.93	PASS	AC=6;AF=0.091;AN=66;DP=330;FS=0.0
16824	chrY	13228644	.	C	T	777.95	PASS	AC=6;AF=0.091;AN=66;DP=338;FS=0.0
16825	chrY	13229033	.	C	T	53.80	PASS	AC=2;AF=0.029;AN=68;DP=443;FS=0.0
16826	chrY	13230354	.	G	A	506.26	PASS	AC=6;AF=0.091;AN=66;DP=313;FS=0.0
16827	chrY	13238659	.	C	T	11223.94	PASS	AC=66;AF=1.00;AN=66;DP=38
16828	chrY	13238850	.	C	A	1788.87	PASS	AC=6;AF=0.088;AN=68;DP=630;FS=0.0
16829	chrY	13238871	.	G	A	1758.85	PASS	AC=6;AF=0.088;AN=68;DP=596;FS=0.0
16830	chrY	13239356	.	T	A	767.32	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
16831	chrY	13239462	.	G	A	50.79	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
16832	chrY	13239531	.	G	A	2062.03	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
16833	chrY	13239620	.	C	T	2595.08	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum=
16834	chrY	13239656	.	A	G	3167.48	PASS	AC=12;AF=0.462;AN=26;BaseQRankSum=
16835	chrY	13239760	.	G	T	2881.83	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
16836	chrY	13239843	.	A	C	607.62	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
16837	chrY	13239873	.	T	A	8666.49	PASS	AC=61;AF=0.984;AN=62;BaseQRankSum=
16838	chrY	13239912	.	T	A,C	626.25	my_snp_filter	AC=3,5;AF=0.043,0.071;AN=
16839	chrY	13239914	.	G	A	488.55	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
16840	chrY	13240048	.	C	T	104.51	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
16841	chrY	13240146	.	A	T	44.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16842	chrY	13240190	.	A	G	45.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16843	chrY	13240192	.	A	C	51.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16844	chrY	13240296	.	C	T	206.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16845	chrY	13240309	.	A	G	55.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16846	chrY	13240346	.	C	T	1150.78	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
16847	chrY	13241057	.	A	C	207.23	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16848	chrY	13241090	.	C	T	109.70	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16849	chrY	13241099	.	C	T	49.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16850	chrY	13241296	.	T	C	127.22	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
16851	chrY	13241341	.	C	A	288.18	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
16852	chrY	13241355	.	A	G	283.64	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
16853	chrY	13241544	.	T	G	139.25	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16854	chrY	13241566	.	G	T	362.48	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
16855	chrY	13241584	.	T	C	779.96	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
16856	chrY	13241590	.	C	T	330.42	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
16857	chrY	13241593	.	T	C	516.78	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
16858	chrY	13241598	.	G	C	539.43	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
16859	chrY	13241603	.	A	G	258.13	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
16860	chrY	13241604	.	T	C	258.72	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
16861	chrY	13241609	.	G	A	449.76	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
16862	chrY	13241635	.	C	T	1942.91	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
16863	chrY	13241636	.	C	G	1942.56	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
16864	chrY	13241656	.	G	A	1127.74	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
16865	chrY	13241659	.	T	C	2191.80	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
16866	chrY	13241730	.	A	G	208.90	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
16867	chrY	13241756	.	A	G	486.14	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16868	chrY	13241786	.	C	A	1111.29	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16869	chrY	13241794	.	G	A	1043.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16870	chrY	13241802	.	T	A	740.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16871	chrY	13241877	.	T	C	619.07	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
16872	chrY	13241925	.	G	A	182.04	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ

16873	chrY	13241934	.	A	G	3155.51	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
16874	chrY	13241943	.	G	A	272.42	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
16875	chrY	13241986	.	G	A	130.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16876	chrY	13242006	.	T	C	8319.68	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
16877	chrY	13242019	.	C	T	38.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16878	chrY	13242026	.	C	T	347.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16879	chrY	13242027	.	A	G	347.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16880	chrY	13242044	.	C	T	10732.91	PASS	AC=23;AF=0.329;AN=70;BaseQ
16881	chrY	13242055	.	G	A	10527.27	PASS	AC=23;AF=0.329;AN=70;BaseQ
16882	chrY	13242063	.	G	A	149.72	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
16883	chrY	13242082	.	T	C	190.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16884	chrY	13242083	.	T	C	290.41	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
16885	chrY	13242098	.	A	G	149.02	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
16886	chrY	13242165	.	C	T	256.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
16887	chrY	13242178	.	C	T	62.20	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
16888	chrY	13242182	.	C	T	62.49	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
16889	chrY	13242196	.	T	G	2367.78	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
16890	chrY	13242225	.	C	T	73.04	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
16891	chrY	13242500	.	C	T	223.58	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
16892	chrY	13242501	.	G	T	106.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
16893	chrY	13242515	.	T	G	231.25	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
16894	chrY	13242523	.	C	T	218.35	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
16895	chrY	13242525	.	T	C	213.66	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
16896	chrY	13242547	.	T	C	204.38	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
16897	chrY	13242560	.	A	C	102.50	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
16898	chrY	13242562	.	A	T	100.65	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
16899	chrY	13242598	.	T	C	104.70	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
16900	chrY	13242697	.	C	T	317.33	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
16901	chrY	13242699	.	C	T	1431.51	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
16902	chrY	13242802	.	T	C	2626.92	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
16903	chrY	13242807	.	C	T	783.72	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
16904	chrY	13242810	.	G	C	49.99	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
16905	chrY	13242831	.	T	C	277.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
16906	chrY	13242834	.	T	G	273.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
16907	chrY	13242874	.	C	T	209.89	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16908	chrY	13242877	.	T	C	185.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16909	chrY	13242878	.	G	A	185.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
16910	chrY	13243011	.	C	T	45.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16911	chrY	13243012	.	T	C	180.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16912	chrY	13243027	.	G	A	36.63	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16913	chrY	13243050	.	C	G	3926.24	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
16914	chrY	13243093	.	C	T	124.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16915	chrY	13243097	.	G	T	131.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
16916	chrY	13243158	.	T	C	54.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
16917	chrY	13243265	.	T	A	514.68	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
16918	chrY	13243269	.	G	A	694.21	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
16919	chrY	13243290	.	T	A	862.21	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
16920	chrY	13243326	.	T	C	1258.52	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
16921	chrY	13243352	.	G	A	2616.03	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
16922	chrY	13243393	.	G	T	2307.47	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
16923	chrY	13243429	.	C	T	45.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16924	chrY	13243437	.	G	T	339.10	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
16925	chrY	13243454	.	T	C	345.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
16926	chrY	13243458	.	C	T	5854.11	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
16927	chrY	13243477	.	C	T	235.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16928	chrY	13243496	.	T	C	6037.79	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
16929	chrY	13243508	.	G	A	5913.19	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
16930	chrY	13243519	.	T	G	5050.57	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
16931	chrY	13243576	.	G	A	93.70	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16932	chrY	13243618	.	C	T	3046.27	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
16933	chrY	13243633	.	C	T	727.47	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
16934	chrY	13243650	.	C	A	686.30	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
16935	chrY	13243652	.	A	G	654.36	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
16936	chrY	13243653	.	T	A	316.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16937	chrY	13243655	.	C	A	664.23	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
16938	chrY	13243683	.	G	A	248.27	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
16939	chrY	13243693	.	G	A	2552.02	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
16940	chrY	13243716	.	C	G	270.76	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
16941	chrY	13243763	.	C	A	160.93	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
16942	chrY	13243793	.	T	C	1607.11	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
16943	chrY	13243806	.	A	G	1013.69	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
16944	chrY	13243848	.	T	C	482.39	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
16945	chrY	13243879	.	A	G	254.81	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
16946	chrY	13243880	.	C	G	262.81	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
16947	chrY	13243953	.	A	G	1032.10	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
16948	chrY	13243955	.	A	T	49.26	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=

16949	chrY	13243978	.	T	G	1064.37	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
16950	chrY	13244066	.	A	G	484.31	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
16951	chrY	13244084	.	G	T	815.32	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
16952	chrY	13244085	.	T	G	819.29	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
16953	chrY	13244116	.	G	C	2607.51	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
16954	chrY	13244117	.	C	T	2606.97	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
16955	chrY	13244129	.	G	A	196.56	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
16956	chrY	13244139	.	G	T	184.65	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
16957	chrY	13244160	.	C	T	2459.98	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=
16958	chrY	13244184	.	C	T	491.88	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
16959	chrY	13244201	.	G	A	468.50	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
16960	chrY	13244236	.	A	T	143.28	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
16961	chrY	13244237	.	A	G	4303.55	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
16962	chrY	13244251	.	C	T	30.20	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
16963	chrY	13244263	.	C	T	52.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
16964	chrY	13244264	.	A	G	2225.38	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
16965	chrY	13244288	.	G	T	3412.24	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
16966	chrY	13244370	.	A	C	15823.20	PASS	AC=57;AF=0.891;AN=64;BaseQ
16967	chrY	13244385	.	C	T	4018.25	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
16968	chrY	13244403	.	T	G	1556.01	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
16969	chrY	13244485	.	T	C	240.23	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
16970	chrY	13244554	.	C	T	136.06	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
16971	chrY	13244558	.	C	T	3734.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
16972	chrY	13244559	.	A	G	679.04	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
16973	chrY	13244565	.	T	C	4123.84	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
16974	chrY	13244566	.	T	G	777.67	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
16975	chrY	13244586	.	G	T	141.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
16976	chrY	13244644	.	T	C	611.01	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16977	chrY	13244655	.	T	C	13812.61	PASS	AC=25;AF=0.379;AN=66;BaseQ
16978	chrY	13244660	.	T	G	2086.91	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
16979	chrY	13244666	.	C	T	435.57	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16980	chrY	13244675	.	C	T	4800.57	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
16981	chrY	13244688	.	G	A	2447.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16982	chrY	13244690	.	A	G	1847.05	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
16983	chrY	13244693	.	C	A	2491.17	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
16984	chrY	13244726	.	G	T	2601.20	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
16985	chrY	13244782	.	T	C	3951.78	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
16986	chrY	13244783	.	G	A	3938.78	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
16987	chrY	13244806	.	C	A	4706.62	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=
16988	chrY	13244808	.	T	C	8986.82	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
16989	chrY	13244809	.	G	A	2859.35	PASS	AC=11;AF=0.275;AN=40;BaseQRankSum=
16990	chrY	13244812	.	G	A	1014.45	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
16991	chrY	13244819	.	T	G	2425.25	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
16992	chrY	13244834	.	C	T	2017.10	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
16993	chrY	13244864	.	G	A	1027.32	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
16994	chrY	13244866	.	A	G	1028.66	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
16995	chrY	13244885	.	T	C	519.75	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
16996	chrY	13244908	.	T	A	72.79	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
16997	chrY	13244964	.	T	G	342.26	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
16998	chrY	13244981	.	G	A	636.02	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
16999	chrY	13245000	.	A	G	3467.35	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
17000	chrY	13245033	.	C	T	2389.99	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
17001	chrY	13245050	.	A	C	1694.23	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
17002	chrY	13245120	.	C	A	1403.68	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
17003	chrY	13245130	.	G	T	401.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
17004	chrY	13245147	.	T	G	271.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17005	chrY	13245158	.	G	C	82.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17006	chrY	13245161	.	C	T	42.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17007	chrY	13245308	.	C	T	12266.45	PASS	AC=40;AF=0.571;AN=70;DP=6
17008	chrY	13245441	.	G	A	4660.94	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
17009	chrY	13245451	.	C	T	4590.77	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
17010	chrY	13245469	.	C	T	3685.83	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
17011	chrY	13245619	.	G	A	75.10	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
17012	chrY	13245647	.	C	A	326.43	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
17013	chrY	13245661	.	A	C	226.06	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
17014	chrY	13245673	.	G	A	226.92	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
17015	chrY	13245675	.	C	T	232.92	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
17016	chrY	13245693	.	G	A	158.89	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
17017	chrY	13245741	.	G	C	33.02	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
17018	chrY	13245748	.	A	G	35.57	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
17019	chrY	13245751	.	A	C	35.13	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
17020	chrY	13245854	.	G	A	298.73	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
17021	chrY	13245884	.	T	C	387.18	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
17022	chrY	13246031	.	A	G	955.55	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
17023	chrY	13246036	.	G	C	929.63	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
17024	chrY	13246052	.	T	C	539.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=

17025	chrY	13246152	.	T	C	962.17	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17026	chrY	13246159	.	A	G	46.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17027	chrY	13246191	.	A	G	183.38	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
17028	chrY	13246195	.	T	A	188.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17029	chrY	13246402	.	G	C	932.39	my_snp_filter	AC=11;AF=0.157;AN=70;Base
17030	chrY	13246431	.	C	T	743.71	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
17031	chrY	13246481	.	A	G,*	2425.06	PASS	AC=11,10;AF=0.167,0.152;AN=66;Bas
17032	chrY	13246486	.	T	A	3750.04	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=
17033	chrY	13246495	.	C	T	3539.55	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
17034	chrY	13246497	.	G	T	1703.76	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
17035	chrY	13246500	.	A	T	3315.79	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
17036	chrY	13246559	.	T	C	203.39	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
17037	chrY	13246591	.	A	G	8073.05	PASS	AC=58;AF=1.00;AN=58;BaseQRankSum=
17038	chrY	13246814	.	G	A	89.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17039	chrY	13246958	.	T	C	373.83	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
17040	chrY	13246977	.	A	G	329.63	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17041	chrY	13246987	.	C	T	423	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
17042	chrY	13247181	.	T	C	81.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17043	chrY	13247208	.	C	T	48.36	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
17044	chrY	13247231	.	A	C	50.32	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17045	chrY	13247379	.	C	T	468.25	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
17046	chrY	13247486	.	C	T	346.51	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
17047	chrY	13247522	.	C	T	268.57	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
17048	chrY	13247525	.	A	G	241.15	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17049	chrY	13247677	.	C	A	800.13	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
17050	chrY	13247723	.	C	T	498.76	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
17051	chrY	13247730	.	T	C	1305.94	my_snp_filter	AC=10;AF=0.156;AN=64;Base
17052	chrY	13247752	.	C	T	1138.22	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
17053	chrY	13247753	.	T	C	1132.67	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
17054	chrY	13247759	.	T	C	1056.46	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
17055	chrY	13248839	.	G	A	51.56	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
17056	chrY	13248847	.	T	C	53.27	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
17057	chrY	13248878	.	T	C	66.53	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
17058	chrY	13248898	.	C	T	59.38	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
17059	chrY	13248923	.	G	A	65.21	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
17060	chrY	13249128	.	A	C	226.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
17061	chrY	13249129	.	C	T	226.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
17062	chrY	13249157	.	T	G	1213.88	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
17063	chrY	13249177	.	T	C	2090.60	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17064	chrY	13249180	.	T	A	2088.74	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17065	chrY	13249183	.	T	C	2294.95	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17066	chrY	13249190	.	C	T	2453.10	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17067	chrY	13249208	.	C	A	2695.26	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17068	chrY	13249261	.	C	T	4574.79	my_snp_filter	AC=27;AF=0.386;AN=70;Base
17069	chrY	13249275	.	G	A	99.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17070	chrY	13249314	.	A	G	4982.05	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
17071	chrY	13249403	.	C	T	4813.37	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
17072	chrY	13249418	.	G	A	4079.64	my_snp_filter	AC=30;AF=0.441;AN=68;Base
17073	chrY	13249482	.	C	G	2020.64	my_snp_filter	AC=10;AF=0.147;AN=68;Base
17074	chrY	13249484	.	C	A	2015.50	my_snp_filter	AC=10;AF=0.147;AN=68;Base
17075	chrY	13249505	.	A	G	1999.84	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17076	chrY	13249506	.	T	G	114.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17077	chrY	13249527	.	A	G	1792.89	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17078	chrY	13249574	.	A	G	1689.46	my_snp_filter	AC=13;AF=0.186;AN=70;Base
17079	chrY	13249584	.	T	C	1550.81	my_snp_filter	AC=12;AF=0.171;AN=70;Base
17080	chrY	13249613	.	C	T	34.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17081	chrY	13249617	.	G	T	34.88	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17082	chrY	13249643	.	T	C	676	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
17083	chrY	13249655	.	T	G	589.55	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
17084	chrY	13249680	.	T	C	237.75	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
17085	chrY	13250417	.	C	A	132.24	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
17086	chrY	13250425	.	G	T	174.09	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
17087	chrY	13250436	.	C	T	206.82	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
17088	chrY	13250569	.	T	G	328.99	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
17089	chrY	13251031	.	C	T	41.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17090	chrY	13251032	.	A	G	41.37	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17091	chrY	13251168	.	C	T	270.26	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17092	chrY	13251187	.	A	G	5769.61	my_snp_filter	AC=18;AF=0.265;AN=68;Base
17093	chrY	13251213	.	A	G	5992.51	my_snp_filter	AC=19;AF=0.271;AN=70;Base
17094	chrY	13251349	.	T	G	9052.38	my_snp_filter	AC=10;AF=0.143;AN=70;Base
17095	chrY	13251357	.	A	T	8801.05	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
17096	chrY	13251368	.	A	T	850.53	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
17097	chrY	13251387	.	C	A	8015.24	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
17098	chrY	13251426	.	A	C	165.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
17099	chrY	13251431	.	T	C	193.26	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
17100	chrY	13251461	.	C	A	10272.70	PASS	AC=15;AF=0.250;AN=60;Base

17101	chrY	13251463	.	T	C	13040.88	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
17102	chrY	13251464	.	G	A	921.88	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
17103	chrY	13251513	.	C	G	18179.96	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
17104	chrY	13251528	.	C	G	14310.13	PASS	AC=30;AF=0.484;AN=62;BaseQRankSum=
17105	chrY	13251608	.	T	C	25275.62	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum=
17106	chrY	13251630	.	T	C	23662.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
17107	chrY	13251673	.	T	C	401.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17108	chrY	13251678	.	C	T	74.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
17109	chrY	13251719	.	A	G	5974.40	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
17110	chrY	13251733	.	C	A	427.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
17111	chrY	13251742	.	A	G	5546.05	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
17112	chrY	13251753	.	C	T	985.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
17113	chrY	13251754	.	T	C	5172.53	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
17114	chrY	13251769	.	G	T	928.97	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
17115	chrY	13251808	.	C	T	1673.23	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
17116	chrY	13251821	.	A	G	2795.63	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQRankSum=
17117	chrY	13251843	.	C	G	1095.54	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
17118	chrY	13251844	.	C	T	1098.54	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
17119	chrY	13251880	.	T	C	216.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17120	chrY	13251896	.	A	C	52.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17121	chrY	13252001	.	T	A	106.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17122	chrY	13252012	.	G	A	124.56	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17123	chrY	13252044	.	C	T	131.97	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
17124	chrY	13252070	.	A	G	412.39	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
17125	chrY	13252077	.	A	C	423.08	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
17126	chrY	13252256	.	G	A	116.24	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17127	chrY	13252257	.	A	C	117.10	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17128	chrY	13252380	.	C	A	2194.03	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQRankSum=
17129	chrY	13252388	.	C	T	2507.82	my_snp_filter	AC=11;AF=0.196;AN=56;BaseQRankSum=
17130	chrY	13252395	.	T	G	2723.09	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
17131	chrY	13252413	.	C	A	3877.09	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
17132	chrY	13252415	.	A	C	389.80	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
17133	chrY	13252419	.	G	A	3860.08	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum=
17134	chrY	13252448	.	C	A	1932.82	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
17135	chrY	13252511	.	C	A	906.08	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
17136	chrY	13252520	.	G	C	144.27	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
17137	chrY	13252524	.	C	T	67.86	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
17138	chrY	13252528	.	A	G	71.96	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
17139	chrY	13252538	.	G	A	129.70	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
17140	chrY	13252540	.	G	A	147.35	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
17141	chrY	13252543	.	A	G	140.18	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
17142	chrY	13252546	.	C	T	128.12	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
17143	chrY	13252551	.	T	G	194.63	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
17144	chrY	13252561	.	G	T	160.29	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
17145	chrY	13252572	.	C	T	144.42	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
17146	chrY	13252573	.	T	G	293.32	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
17147	chrY	13252666	.	T	C	284.13	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17148	chrY	13252668	.	G	C	1622.59	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
17149	chrY	13252676	.	A	C	338.03	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17150	chrY	13252677	.	G	A	350.98	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17151	chrY	13252701	.	G	A	292.02	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
17152	chrY	13252703	.	G	T	322.72	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
17153	chrY	13252722	.	A	G	125.57	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17154	chrY	13252724	.	G	C	255.65	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
17155	chrY	13252726	.	T	C	39.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17156	chrY	13252732	.	G	A	49.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17157	chrY	13252735	.	C	A	267.94	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17158	chrY	13252739	.	A	G	231.21	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17159	chrY	13252749	.	A	G	213.95	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
17160	chrY	13252766	.	C	T	72.88	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
17161	chrY	13252774	.	C	T	58.56	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
17162	chrY	13252777	.	A	G	74.62	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
17163	chrY	13252779	.	C	T	256.16	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
17164	chrY	13252780	.	G	A	57.43	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
17165	chrY	13252784	.	T	G	108.28	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
17166	chrY	13252795	.	A	G	299.88	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
17167	chrY	13252803	.	C	T	224.67	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17168	chrY	13252842	.	A	T	1571.90	PASS	AC=16;AF=0.296;AN=54;BaseQRankSum=
17169	chrY	13252869	.	G	A	2542.46	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
17170	chrY	13252901	.	C	T	90.48	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17171	chrY	13252913	.	G	A	1613.78	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
17172	chrY	13252936	.	C	T	331.15	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
17173	chrY	13252941	.	G	T	2181.07	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
17174	chrY	13252956	.	A	T	205.68	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
17175	chrY	13252978	.	G	A	631.44	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
17176	chrY	13253002	.	T	A	845.69	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=

17177	chrY	13253035	.	G	C	2951.34	PASS	AC=15;AF=0.313;AN=48;BaseQRankSum=
17178	chrY	13253040	.	C	A	1072.06	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
17179	chrY	13253057	.	C	T	1039.64	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
17180	chrY	13253096	.	T	G	1007.74	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
17181	chrY	13253111	.	G	A	1216.98	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
17182	chrY	13253161	.	G	A	151.48	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
17183	chrY	13253173	.	A	C	171.02	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
17184	chrY	13253192	.	C	T	61.33	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
17185	chrY	13253212	.	T	C	59.31	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
17186	chrY	13253262	.	G	T	4423.29	PASS	AC=22;AF=0.440;AN=50;BaseQRankSum=
17187	chrY	13253267	.	A	C	4766.86	PASS	AC=23;AF=0.442;AN=52;BaseQRankSum=
17188	chrY	13253274	.	T	C	5240.35	PASS	AC=22;AF=0.393;AN=56;BaseQRankSum=
17189	chrY	13253314	.	G	T	6726.81	PASS	AC=36;AF=0.563;AN=64;BaseQRankSum=
17190	chrY	13253361	.	C	T	106.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17191	chrY	13253376	.	C	G	107.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17192	chrY	13253383	.	A	T	115.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17193	chrY	13253393	.	T	C	7244.81	PASS	AC=32;AF=0.593;AN=54;BaseQRankSum=
17194	chrY	13253395	.	G	A	7492.56	PASS	AC=32;AF=0.593;AN=54;BaseQRankSum=
17195	chrY	13253409	.	C	T	553.85	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
17196	chrY	13253410	.	C	T	504.92	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
17197	chrY	13253412	.	C	T	132.09	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17198	chrY	13253427	.	C	T	2560.16	my_snp_filter	AC=27;AF=0.435;AN=62;BaseQRankSum=
17199	chrY	13253488	.	C	T	5817.12	my_snp_filter	AC=28;AF=0.452;AN=62;BaseQRankSum=
17200	chrY	13253498	.	C	T	1358.35	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
17201	chrY	13253503	.	G	A	4863.23	my_snp_filter	AC=21;AF=0.375;AN=56;BaseQRankSum=
17202	chrY	13253523	.	G	A	1873.21	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
17203	chrY	13253526	.	T	C	4086.48	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
17204	chrY	13253531	.	G	C	3659.33	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
17205	chrY	13253535	.	C	T	3368	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
17206	chrY	13253558	.	G	C	40.45	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17207	chrY	13253561	.	G	C	42.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17208	chrY	13253567	.	A	G	44.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17209	chrY	13253575	.	G	T	49.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17210	chrY	13253578	.	T	C	416.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17211	chrY	13253639	.	T	C	794.02	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
17212	chrY	13253694	.	T	C	617.94	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
17213	chrY	13253705	.	T	C	587.10	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
17214	chrY	13253708	.	A	T	654.69	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
17215	chrY	13253718	.	C	T	123.36	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
17216	chrY	13253724	.	T	G	663.21	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
17217	chrY	13253729	.	C	A	623.26	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
17218	chrY	13253740	.	C	G	295.84	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
17219	chrY	13253741	.	G	T	522.73	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
17220	chrY	13253750	.	C	G	263.07	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
17221	chrY	13253753	.	C	G	236.76	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
17222	chrY	13253759	.	G	A	289.04	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
17223	chrY	13253782	.	A	G	609.12	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
17224	chrY	13253829	.	A	T	215.86	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
17225	chrY	13253917	.	A	G	109.53	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
17226	chrY	13253923	.	T	G	179.81	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
17227	chrY	13253947	.	T	G	922.32	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
17228	chrY	13253951	.	C	G	922.74	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17229	chrY	13253993	.	T	C	7606.41	my_snp_filter	AC=27;AF=0.409;AN=66;BaseQRankSum=
17230	chrY	13254012	.	T	A	10295.91	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
17231	chrY	13254034	.	C	G	12474.74	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
17232	chrY	13254062	.	C	T	17636.25	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
17233	chrY	13254082	.	C	T	17576.62	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
17234	chrY	13254088	.	C	T	17319.31	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
17235	chrY	13254106	.	C	G	82.46	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
17236	chrY	13254123	.	T	G	11667.43	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
17237	chrY	13254128	.	C	T	11328.97	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
17238	chrY	13254144	.	T	C	9138.88	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
17239	chrY	13254160	.	C	T	5003.89	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
17240	chrY	13254163	.	T	C	4923.16	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
17241	chrY	13254175	.	A	G	3377.14	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
17242	chrY	13254187	.	A	G	2595.17	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
17243	chrY	13254228	.	C	T	4188.95	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
17244	chrY	13254267	.	G	A	6312.54	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
17245	chrY	13254302	.	G	A	7210.23	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
17246	chrY	13254331	.	G	T	6194.94	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
17247	chrY	13254337	.	G	A	5757.71	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=
17248	chrY	13254379	.	G	T	6452.54	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
17249	chrY	13254388	.	A	G	10304.82	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
17250	chrY	13254415	.	C	T	6667.79	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
17251	chrY	13254434	.	G	T	609.09	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17252	chrY	13254477	.	G	T	7537.51	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=

17253	chrY	13254482	.	C	T	7437.56	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum
17254	chrY	13254488	.	G	A	7265.23	PASS	AC=17;AF=0.304;AN=56;BaseQRankSum
17255	chrY	13254491	.	C	T	32	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
17256	chrY	13254498	.	C	T	143.76	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
17257	chrY	13254507	.	C	G	5944.92	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
17258	chrY	13254529	.	C	A	557.64	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
17259	chrY	13254539	.	C	G	642.27	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
17260	chrY	13254586	.	C	T	8260.35	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
17261	chrY	13254597	.	C	T	8245.43	my_snp_filter	AC=23;AF=0.348;AN=66;Base
17262	chrY	13254602	.	C	T	7851.53	my_snp_filter	AC=23;AF=0.371;AN=62;Base
17263	chrY	13254613	.	T	G	6821.32	my_snp_filter	AC=22;AF=0.367;AN=60;Base
17264	chrY	13254615	.	C	G	6593.21	my_snp_filter	AC=22;AF=0.379;AN=58;Base
17265	chrY	13254626	.	G	A	1434.94	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum
17266	chrY	13254634	.	T	A	43.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17267	chrY	13254657	.	A	G	189.28	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
17268	chrY	13254675	.	A	C	2594.73	my_snp_filter	AC=10;AF=0.172;AN=58;Base
17269	chrY	13254678	.	T	C	2662.91	my_snp_filter	AC=11;AF=0.196;AN=56;Base
17270	chrY	13254680	.	C	T	77.64	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
17271	chrY	13254693	.	G	C	1292.62	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
17272	chrY	13254695	.	G	T	1264.04	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
17273	chrY	13254702	.	C	T	647.72	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
17274	chrY	13254709	.	A	T	484.37	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
17275	chrY	13254809	.	C	T	199.65	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
17276	chrY	13254860	.	G	A	489.65	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
17277	chrY	13254876	.	C	T	5277.18	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum
17278	chrY	13254894	.	C	T	317.38	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
17279	chrY	13254897	.	A	G	364.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
17280	chrY	13254948	.	G	A	4009.82	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum
17281	chrY	13254965	.	T	A	2371.64	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum
17282	chrY	13254978	.	C	T	1338.83	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
17283	chrY	13255082	.	G	A	44.80	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17284	chrY	13255098	.	G	A	44.32	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17285	chrY	13255104	.	A	C	67.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
17286	chrY	13255294	.	C	T	1617.39	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum
17287	chrY	13255515	.	A	G	212.96	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
17288	chrY	13255665	.	C	T	668.18	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
17289	chrY	13255676	.	C	T	710.43	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
17290	chrY	13255687	.	C	T	713.59	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
17291	chrY	13255692	.	C	G	738.84	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
17292	chrY	13255715	.	A	T	216.99	PASS	AC=4;AF=0.077;AN=52;DP=234;FS=0.0
17293	chrY	13255722	.	A	G	84.23	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
17294	chrY	13255769	.	G	A	642.57	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17295	chrY	13255774	.	T	C	612.05	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
17296	chrY	13255777	.	C	G	613.55	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
17297	chrY	13255784	.	G	C	574.12	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
17298	chrY	13256015	.	C	T	74.06	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
17299	chrY	13256041	.	G	A	730.24	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum
17300	chrY	13256049	.	T	G	633.09	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17301	chrY	13256061	.	T	C	1998.14	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum
17302	chrY	13256071	.	C	A	2064.09	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum
17303	chrY	13256107	.	A	C	3941.41	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum
17304	chrY	13256115	.	C	A	4317.04	PASS	AC=17;AF=0.370;AN=46;BaseQRankSum
17305	chrY	13256126	.	G	A	41.11	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17306	chrY	13256139	.	C	G	5167.82	PASS	AC=16;AF=0.308;AN=52;BaseQRankSum
17307	chrY	13256143	.	C	T	5082.39	PASS	AC=16;AF=0.320;AN=50;BaseQRankSum
17308	chrY	13256147	.	C	T	147.04	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17309	chrY	13256151	.	A	G	5172.92	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum
17310	chrY	13256154	.	T	C	144	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17311	chrY	13256166	.	C	T	146.63	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
17312	chrY	13256206	.	G	A	2743.15	PASS	AC=18;AF=0.321;AN=56;BaseQRankSum
17313	chrY	13256236	.	C	T	1337.47	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
17314	chrY	13256242	.	A	T	2253.39	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum
17315	chrY	13256249	.	T	C	35.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17316	chrY	13256263	.	C	T	772.76	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum
17317	chrY	13256287	.	G	T	863.01	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
17318	chrY	13256309	.	C	A	6992.87	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
17319	chrY	13256323	.	C	T	15773.57	PASS	AC=30;AF=0.441;AN=68;Base
17320	chrY	13256336	.	C	T	82.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17321	chrY	13256337	.	C	G	82.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17322	chrY	13256360	.	A	G	73.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17323	chrY	13256374	.	G	A	4615.65	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
17324	chrY	13256376	.	G	A	73.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17325	chrY	13256392	.	C	T	77.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17326	chrY	13256416	.	C	T	54.23	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
17327	chrY	13256417	.	C	A	192.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
17328	chrY	13256418	.	A	G	6177.47	my_snp_filter	AC=27;AF=0.397;AN=68;Base

17329	chrY	13256422	.	A	C	78.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17330	chrY	13256426	.	G	T	77.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17331	chrY	13256427	.	C	A	77.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17332	chrY	13256545	.	C	G	1082.83	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
17333	chrY	13257138	.	G	A	183.38	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
17334	chrY	13257142	.	A	C	180.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17335	chrY	13257150	.	G	A	147.22	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17336	chrY	13257156	.	G	A	41.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17337	chrY	13257161	.	A	G	41.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17338	chrY	13257166	.	T	C	216.33	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
17339	chrY	13257174	.	G	C	127.94	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
17340	chrY	13257193	.	C	G	136.97	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
17341	chrY	13257201	.	T	C	142.99	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
17342	chrY	13257217	.	A	G	43.33	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17343	chrY	13257337	.	C	T	3240.22	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum=
17344	chrY	13257339	.	A	C	109.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17345	chrY	13257341	.	T	G	109	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17346	chrY	13257342	.	C	T	2553.19	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
17347	chrY	13257353	.	C	T	2737.88	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
17348	chrY	13257375	.	T	C	188.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
17349	chrY	13257388	.	C	A	5637.23	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
17350	chrY	13257389	.	G	A	227.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
17351	chrY	13257407	.	G	A	30.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17352	chrY	13257428	.	G	T	8438.63	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
17353	chrY	13257440	.	C	T,*	237.10	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
17354	chrY	13257472	.	A,*	A,*	2528.68	PASS	AC=11,1;AF=0.177,0.016;AN=62;Base
17355	chrY	13257475	.	T	C,*	2226.25	PASS	AC=11,1;AF=0.177,0.016;AN=62;Base
17356	chrY	13257494	.	A	G	672.88	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
17357	chrY	13257496	.	T	C,*	269.35	PASS	AC=2,1;AF=0.030,0.015;AN=66;BaseQ
17358	chrY	13257502	.	T	A	103.38	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17359	chrY	13257510	.	T	G	332.41	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17360	chrY	13257515	.	A	T,*	381.88	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
17361	chrY	13257526	.	G	A	238.43	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
17362	chrY	13257534	.	A	C,*	387.69	PASS	AC=3,1;AF=0.047,0.016;AN=64;BaseQ
17363	chrY	13257583	.	T	C	1555.97	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
17364	chrY	13257585	.	C	T	48.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17365	chrY	13257603	.	G	A	1566.68	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
17366	chrY	13257606	.	C	T	49.54	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17367	chrY	13257643	.	G	A	2319.98	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
17368	chrY	13257664	.	G	A	2034.87	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
17369	chrY	13257668	.	G	T	1881.61	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
17370	chrY	13257685	.	T	C	31.66	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17371	chrY	13257709	.	G	A	254.44	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
17372	chrY	13257723	.	T	C	113.84	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17373	chrY	13257771	.	C	A	56.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
17374	chrY	13257773	.	G	A	53.47	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
17375	chrY	13258031	.	A	C	416.67	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
17376	chrY	13258092	.	T	C	83.33	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
17377	chrY	13258099	.	C	T	59.27	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17378	chrY	13258115	.	G	A	2759.72	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
17379	chrY	13258227	.	G	C	1719.78	my_snp_filter	AC=13;AF=0.232;AN=56;Base
17380	chrY	13258251	.	G	T	2190.55	my_snp_filter	AC=15;AF=0.288;AN=52;Base
17381	chrY	13258279	.	C	T	1244.76	my_snp_filter	AC=17;AF=0.266;AN=64;Base
17382	chrY	13258333	.	A	C	142.48	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
17383	chrY	13258354	.	G	A	4229.72	PASS	AC=23;AF=0.397;AN=58;BaseQRankSum=
17384	chrY	13258365	.	T	G	1619.09	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
17385	chrY	13258437	.	C	T	1069.73	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
17386	chrY	13258454	.	T	G	168.30	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17387	chrY	13258455	.	C	T	84.14	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17388	chrY	13258465	.	T	A	106.83	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
17389	chrY	13258466	.	C	T	99.66	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
17390	chrY	13258475	.	A	C	848.47	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
17391	chrY	13258504	.	G	A	254.93	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
17392	chrY	13258549	.	T	C	65.75	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
17393	chrY	13258629	.	G	A	354.02	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
17394	chrY	13258631	.	G	A	114.02	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17395	chrY	13258632	.	G	A	121.61	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17396	chrY	13258662	.	G	T	537.14	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
17397	chrY	13258666	.	G	A	107.19	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
17398	chrY	13258671	.	G	A	110.51	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
17399	chrY	13258684	.	T	G	517.23	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
17400	chrY	13258690	.	G	C	483.26	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
17401	chrY	13258696	.	T	C	450.38	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
17402	chrY	13258700	.	A	G	450.96	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
17403	chrY	13258746	.	G	T	305.57	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
17404	chrY	13258756	.	T	C	374.16	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=

17405	chrY	13258771	.	C	T	579.94	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
17406	chrY	13258793	.	G	A	1533	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
17407	chrY	13258840	.	C	T	41.72	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
17408	chrY	13258861	.	C	T	5708.61	PASS	AC=24;AF=0.429;AN=56;BaseQRankSum=
17409	chrY	13258894	.	C	T	9904.47	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=
17410	chrY	13258909	.	A	G	10196.95	PASS	AC=25;AF=0.414;AN=58;BaseQRankSum=
17411	chrY	13258924	.	C	G	8967.93	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
17412	chrY	13259011	.	G	A	297.80	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
17413	chrY	13259029	.	T	C	255.01	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
17414	chrY	13259068	.	T	C	1862.35	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
17415	chrY	13259082	.	G	A	2010.26	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
17416	chrY	13259132	.	A	C	3684.75	my_snp_filter	AC=19;AF=0.297;AN=64;BaseQRankSum=
17417	chrY	13259210	.	G	A	18352.30	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
17418	chrY	13259220	.	T	A	18962.58	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
17419	chrY	13259230	.	C	T	65.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
17420	chrY	13259306	.	C	T	3968.91	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
17421	chrY	13259326	.	G	A	4716.37	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum=
17422	chrY	13259362	.	G	C	1455.52	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
17423	chrY	13259378	.	T	C	232.81	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
17424	chrY	13259400	.	T	G	550.19	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
17425	chrY	13259447	.	A	T	38.26	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
17426	chrY	13259457	.	C	T	4806.68	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
17427	chrY	13259542	.	C	A	58.79	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQRankSum=
17428	chrY	13259555	.	C	T	6031.35	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
17429	chrY	13259570	.	A	G	4700.60	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
17430	chrY	13259580	.	G	A	1391.38	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
17431	chrY	13259598	.	A	G	1979.47	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
17432	chrY	13259611	.	G	T	1929.71	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
17433	chrY	13259643	.	T	C	1176.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
17434	chrY	13259717	.	A	G	8201.54	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
17435	chrY	13259718	.	G	T	2913.38	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17436	chrY	13259728	.	G	A	2807.94	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17437	chrY	13259744	.	G	T	2054.03	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
17438	chrY	13259749	.	A	G	43.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
17439	chrY	13259750	.	G	C	2718.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
17440	chrY	13259764	.	G	A	106.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17441	chrY	13259771	.	T	A	2532.40	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
17442	chrY	13259796	.	G	A	1299.77	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
17443	chrY	13259827	.	G	C	1835.92	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
17444	chrY	13259828	.	G	A	6134.64	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
17445	chrY	13259839	.	T	A	7812.62	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
17446	chrY	13259842	.	T	A	2794.53	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
17447	chrY	13259851	.	T	C	7411.17	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
17448	chrY	13259899	.	T	C	336.99	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQRankSum=
17449	chrY	13259914	.	G	C	319.95	my_snp_filter	AC=5;AF=0.114;AN=44;BaseQRankSum=
17450	chrY	13259927	.	C	T	5495.29	PASS	AC=14;AF=0.467;AN=30;BaseQRankSum=
17451	chrY	13259941	.	T	G	123.18	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
17452	chrY	13259958	.	A	G	4053.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17453	chrY	13259964	.	G	C	128.88	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=
17454	chrY	13260009	.	T	G	1300.26	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
17455	chrY	13260016	.	G	C	1075.25	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
17456	chrY	13260018	.	T	G	969.57	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
17457	chrY	13260024	.	C	T	705.15	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
17458	chrY	13260051	.	T	A	123.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
17459	chrY	13260073	.	T	A	1520.42	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
17460	chrY	13260092	.	T	C	1930.05	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
17461	chrY	13260145	.	A	T	62.42	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
17462	chrY	13260207	.	C	T	131.02	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
17463	chrY	13260233	.	G	T	2073.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17464	chrY	13260262	.	T	C	2809.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17465	chrY	13260296	.	T	G	520.51	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
17466	chrY	13260314	.	G	A	696.98	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
17467	chrY	13260372	.	T	A	1374.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQRankSum=
17468	chrY	13260501	.	T	G	995.78	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
17469	chrY	13260505	.	G	T	558.59	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
17470	chrY	13260506	.	G	A	556.77	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
17471	chrY	13260518	.	G	A	783.59	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
17472	chrY	13260695	.	C	T	91.19	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
17473	chrY	13260703	.	G	C	230.37	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
17474	chrY	13260727	.	A	G	337.11	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
17475	chrY	13260736	.	G	A	81.10	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQRankSum=
17476	chrY	13260843	.	G	T	5071.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
17477	chrY	13260848	.	T	G	4623.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQRankSum=
17478	chrY	13260851	.	G	T	30.88	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
17479	chrY	13260863	.	T	G	3465.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17480	chrY	13260866	.	T	C	55	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=

17481	chrY	13260885	.	G	A	38.34	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
17482	chrY	13260894	.	T	C	82.45	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
17483	chrY	13260905	.	C	A	1761.08	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
17484	chrY	13260984	.	T	A	488.17	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
17485	chrY	13261084	.	C	T	98.28	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
17486	chrY	13261085	.	G	A	510.79	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
17487	chrY	13261092	.	G	A	10471.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
17488	chrY	13261134	.	A	G	3527.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
17489	chrY	13261238	.	G	A	83.67	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
17490	chrY	13261243	.	G	C	2496.62	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
17491	chrY	13261247	.	T	C	2423.74	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
17492	chrY	13261255	.	G	C	1791.80	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
17493	chrY	13261275	.	G	A	2124.48	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
17494	chrY	13261276	.	T	G	871.87	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
17495	chrY	13261289	.	T	A	2683.84	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
17496	chrY	13261301	.	C	A	179.93	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
17497	chrY	13261324	.	A	G	172.94	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
17498	chrY	13261352	.	G	A	746.79	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
17499	chrY	13261372	.	G	A	5388.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17500	chrY	13261454	.	G	A	328.91	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
17501	chrY	13261551	.	A	T	752.44	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
17502	chrY	13261558	.	T	C	2960.65	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17503	chrY	13261570	.	T	C	47.55	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
17504	chrY	13261588	.	T	C	1556.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17505	chrY	13261638	.	G	A	1384.85	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
17506	chrY	13261680	.	G	T	3931.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17507	chrY	13261739	.	C	T	457.94	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
17508	chrY	13261840	.	A	C	201.91	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
17509	chrY	13261874	.	C	T	142.50	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
17510	chrY	13261875	.	A	G	142.50	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
17511	chrY	13261898	.	G	C	291.68	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
17512	chrY	13261906	.	G	A	297.54	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
17513	chrY	13261921	.	G	T	241.42	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
17514	chrY	13262017	.	C	T	4185.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17515	chrY	13262030	.	G	T	4761.38	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17516	chrY	13262052	.	T	G	2951.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17517	chrY	13262170	.	T	C	82.94	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
17518	chrY	13262214	.	T	A	1914.40	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
17519	chrY	13262232	.	G	A	9675.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17520	chrY	13262256	.	A	T	4304.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17521	chrY	13262258	.	G	A	250.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
17522	chrY	13262312	.	G	A	5926.74	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
17523	chrY	13262313	.	A	T	3022.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
17524	chrY	13262314	.	G	A	560.67	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
17525	chrY	13262357	.	A	G	685.90	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
17526	chrY	13262413	.	T	C	1803.74	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
17527	chrY	13262431	.	G	A	1622.92	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
17528	chrY	13262477	.	C	T	398.47	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
17529	chrY	13262482	.	C	A	4389.50	PASS	AC=14;AF=0.389;AN=36;BaseQRankSum=
17530	chrY	13262546	.	G	A	544.40	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
17531	chrY	13262589	.	G	A	681.17	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
17532	chrY	13262594	.	C	G	1350.52	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQ
17533	chrY	13262630	.	C	T	12598.21	PASS	AC=9;AF=0.155;AN=58;BaseQ
17534	chrY	13262651	.	G	T	2306.77	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
17535	chrY	13262678	.	G	A	6282.61	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
17536	chrY	13262692	.	A	G	5024.21	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
17537	chrY	13262713	.	G	C	1319.25	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
17538	chrY	13262747	.	A	G	5481.18	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
17539	chrY	13262752	.	C	A	5949.41	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQ
17540	chrY	13262769	.	T	C	3857.59	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
17541	chrY	13262770	.	G	A	3209.92	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
17542	chrY	13262792	.	C	T	1987.95	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
17543	chrY	13262795	.	C	T	2474.33	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
17544	chrY	13262826	.	C	A	61.94	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
17545	chrY	13262831	.	G	A	247.04	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
17546	chrY	13262836	.	C	A	1642.50	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
17547	chrY	13262837	.	A	G	12549.52	PASS	AC=29;AF=0.500;AN=58;BaseQ
17548	chrY	13262840	.	C	T	151.37	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17549	chrY	13262843	.	G	A	3085.31	PASS	AC=20;AF=0.333;AN=60;BaseQRankSum=
17550	chrY	13262844	.	C	T	1621.88	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
17551	chrY	13262846	.	C	G	46.54	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17552	chrY	13262850	.	C	G	43.32	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17553	chrY	13262870	.	G	C	109.62	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
17554	chrY	13262908	.	C	G	20015.75	PASS	AC=44;AF=0.647;AN=68;BaseQ
17555	chrY	13262918	.	A	T	841.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17556	chrY	13262950	.	G	A	987.05	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

17557	chrY	13262958	.	C	A	1141.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17558	chrY	13262996	.	C	G	2308.65	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17559	chrY	13263010	.	G	A	2231.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17560	chrY	13263091	.	G	A	29743.19	PASS	AC=41;AF=0.641;AN=64;BaseQRankSum=
17561	chrY	13263103	.	C	A	2113.48	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17562	chrY	13263115	.	C	T	2254.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
17563	chrY	13263118	.	G	A	2155.57	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
17564	chrY	13263170	.	A	C,T	23341.92	PASS	AC=24,2;AF=0.444,0.037;AN=64;BaseQRankSum=
17565	chrY	13263175	.	A	G	25140.46	PASS	AC=25;AF=0.481;AN=52;BaseQRankSum=
17566	chrY	13263194	.	T	A	24523.70	PASS	AC=25;AF=0.463;AN=54;BaseQRankSum=
17567	chrY	13263262	.	C	A	249.03	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
17568	chrY	13263265	.	T	G	18637.28	PASS	AC=40;AF=0.645;AN=62;BaseQRankSum=
17569	chrY	13263289	.	G	A	961.07	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
17570	chrY	13263304	.	C	T	18770.68	PASS	AC=41;AF=0.641;AN=64;BaseQRankSum=
17571	chrY	13263345	.	G	T	409.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17572	chrY	13263364	.	A	G	33877.16	PASS	AC=32;AF=0.516;AN=62;BaseQRankSum=
17573	chrY	13263369	.	C	G	1090.29	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17574	chrY	13263371	.	C	T	7392.06	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
17575	chrY	13263374	.	C	G	36035.98	PASS	AC=32;AF=0.516;AN=62;BaseQRankSum=
17576	chrY	13263400	.	C	T	7546.08	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
17577	chrY	13263409	.	T	C	36312.33	PASS	AC=31;AF=0.534;AN=58;BaseQRankSum=
17578	chrY	13263439	.	G	T	34110.64	PASS	AC=29;AF=0.518;AN=56;BaseQRankSum=
17579	chrY	13263454	.	T	C	32660.14	PASS	AC=29;AF=0.483;AN=60;BaseQRankSum=
17580	chrY	13263468	.	G	A	6035.70	PASS	AC=21;AF=0.350;AN=60;BaseQRankSum=
17581	chrY	13263469	.	G	C	29881.55	PASS	AC=26;AF=0.433;AN=60;BaseQRankSum=
17582	chrY	13263470	.	T	A	29501.37	PASS	AC=26;AF=0.433;AN=60;BaseQRankSum=
17583	chrY	13263511	.	C	T	15587.92	PASS	AC=30;AF=0.556;AN=54;BaseQRankSum=
17584	chrY	13263525	.	G	A	129.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17585	chrY	13263555	.	G	T	148.38	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
17586	chrY	13263562	.	A	G	32.73	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
17587	chrY	13263571	.	C	T	3088.15	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
17588	chrY	13263602	.	G	A	220.99	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
17589	chrY	13263604	.	T	C	17803.24	PASS	AC=34;AF=0.586;AN=58;BaseQRankSum=
17590	chrY	13263606	.	G	T	174.57	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
17591	chrY	13263608	.	C	A	1034.86	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
17592	chrY	13263609	.	C	T	855.20	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
17593	chrY	13263625	.	G	A	1029.81	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17594	chrY	13263647	.	G	A	7337.54	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
17595	chrY	13263654	.	C	A	239.11	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
17596	chrY	13263659	.	C	G	204.05	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQRankSum=
17597	chrY	13263664	.	G	T	328.02	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQRankSum=
17598	chrY	13263674	.	G	A	1197.33	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
17599	chrY	13263676	.	T	A	15132.87	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
17600	chrY	13263678	.	C	T	9114.03	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
17601	chrY	13263679	.	G	T	15060.83	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
17602	chrY	13263686	.	C	G	568.37	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
17603	chrY	13263692	.	C	T	458.22	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQRankSum=
17604	chrY	13263694	.	G	C	466.53	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQRankSum=
17605	chrY	13263697	.	C	T	9984.71	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
17606	chrY	13263700	.	C	T	9854.75	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
17607	chrY	13263702	.	C	A	399.64	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQRankSum=
17608	chrY	13263735	.	C	G	6394.29	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
17609	chrY	13263758	.	T	G	347.49	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
17610	chrY	13263760	.	G	C	5288.76	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
17611	chrY	13263766	.	C	A	360.73	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
17612	chrY	13263770	.	T	C	333.41	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
17613	chrY	13263773	.	A	T	293.48	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
17614	chrY	13263777	.	A	T	21793.24	PASS	AC=24;AF=0.444;AN=54;BaseQRankSum=
17615	chrY	13263785	.	A	G	319.15	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
17616	chrY	13263787	.	C	T	336.29	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
17617	chrY	13263792	.	G	C	319.36	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
17618	chrY	13263818	.	G	A	960.75	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17619	chrY	13263826	.	G	T	413.21	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
17620	chrY	13263828	.	G	C	413.10	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
17621	chrY	13263834	.	G	A	365.70	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
17622	chrY	13263859	.	G	T	74.35	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQRankSum=
17623	chrY	13263872	.	G	A	3817.44	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
17624	chrY	13263879	.	C	T	24568.51	PASS	AC=17;AF=0.607;AN=28;BaseQRankSum=
17625	chrY	13263883	.	A	G	3476.26	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
17626	chrY	13263903	.	A	C	2960.66	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
17627	chrY	13263909	.	A	T	67.25	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
17628	chrY	13263970	.	G	T	1753.99	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
17629	chrY	13263999	.	T	C	954.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQRankSum=
17630	chrY	13264002	.	T	A	16703.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
17631	chrY	13264012	.	A	G	3922.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17632	chrY	13264031	.	T	G	4090.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=

17633	chrY	13264045	.	C	G	3862.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17634	chrY	13264057	.	G	T	3800.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17635	chrY	13264058	.	T	A	3788.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17636	chrY	13264068	.	G	A	11700.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17637	chrY	13264073	.	A	T	3155.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17638	chrY	13264089	.	A	G	1765.75	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
17639	chrY	13264093	.	T	A	17564.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17640	chrY	13264116	.	C	G	1296.36	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
17641	chrY	13264121	.	A	T	11870.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17642	chrY	13264132	.	T	C	1331.99	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
17643	chrY	13264180	.	G	C	171.51	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
17644	chrY	13264268	.	G	C	4523.64	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQRankSum=
17645	chrY	13264281	.	G	A	1358.91	my_snp_filter	AC=9;AF=0.237;AN=38;BaseQRankSum=
17646	chrY	13264289	.	G	A	1326.32	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQRankSum=
17647	chrY	13264294	.	C	T	3606.99	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQRankSum=
17648	chrY	13264337	.	C	A	162.93	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQRankSum=
17649	chrY	13264440	.	C	T	89.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17650	chrY	13264470	.	A	C	289.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
17651	chrY	13264650	.	G	C	730.15	my_snp_filter	AC=7;AF=0.152;AN=46;BaseQRankSum=
17652	chrY	13264669	.	T	G	420.79	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
17653	chrY	13264717	.	G	T	727.01	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
17654	chrY	13264729	.	T	A	916.32	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
17655	chrY	13264790	.	C	A	1726.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17656	chrY	13264889	.	G	T	255.09	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
17657	chrY	13264955	.	G	A	952.99	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
17658	chrY	13265038	.	G	A	900.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17659	chrY	13265088	.	C	T	3244.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
17660	chrY	13265152	.	G	A	1309.16	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17661	chrY	13265171	.	T	C	11605.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
17662	chrY	13265176	.	T	C	11818.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
17663	chrY	13265199	.	A	G	7404.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
17664	chrY	13265203	.	A	G	205.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
17665	chrY	13265266	.	T	C	2366.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
17666	chrY	13265305	.	G	T	11321.66	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17667	chrY	13265370	.	C	A	4738.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17668	chrY	13265372	.	T	A	17289.34	PASS	AC=12;AF=0.600;AN=20;BaseQRankSum=
17669	chrY	13265490	.	G	A	536.71	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQRankSum=
17670	chrY	13265530	.	G	T	177.02	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQRankSum=
17671	chrY	13265535	.	G	T	349.95	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
17672	chrY	13265635	.	A	G	658.80	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=
17673	chrY	13265665	.	G	A	32.16	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
17674	chrY	13265694	.	A	C	439.36	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQRankSum=
17675	chrY	13265718	.	A	C	329.13	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
17676	chrY	13265722	.	C	G	1132.20	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQRankSum=
17677	chrY	13265732	.	C	T	290.80	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
17678	chrY	13265738	.	G	T	553.53	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
17679	chrY	13265743	.	C	T	1297.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
17680	chrY	13265768	.	C	T	1650.58	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
17681	chrY	13265855	.	C	T	2132.51	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17682	chrY	13265881	.	T	C	2783.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
17683	chrY	13265888	.	G	T	179.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
17684	chrY	13265896	.	A	G	182.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
17685	chrY	13265930	.	G	T	46.01	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
17686	chrY	13265949	.	T	A	3797.91	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQRankSum=
17687	chrY	13266022	.	G	C	3057.54	my_snp_filter	AC=10;AF=0.172;AN=58;BaseQRankSum=
17688	chrY	13266042	.	C	T	11133.73	my_snp_filter	AC=14;AF=0.241;AN=20;BaseQRankSum=
17689	chrY	13266045	.	A	G	10027.41	my_snp_filter	AC=16;AF=0.258;AN=20;BaseQRankSum=
17690	chrY	13266070	.	T	C	11316.31	my_snp_filter	AC=22;AF=0.379;AN=20;BaseQRankSum=
17691	chrY	13266103	.	T	C	22412.72	my_snp_filter	AC=34;AF=0.486;AN=20;BaseQRankSum=
17692	chrY	13266116	.	C	G	13075.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
17693	chrY	13266154	.	A	G	420.54	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
17694	chrY	13266160	.	T	G	20628.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17695	chrY	13266168	.	G	A	42.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
17696	chrY	13266177	.	T	A	60166.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
17697	chrY	13266216	.	A	G	360.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
17698	chrY	13266218	.	A	G	5137.55	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
17699	chrY	13266221	.	G	T	1682.68	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17700	chrY	13266227	.	C	T	5469.39	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
17701	chrY	13266243	.	T	C	56.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
17702	chrY	13266266	.	G	A	75773.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17703	chrY	13266286	.	C	T	67623.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17704	chrY	13266301	.	A	G	58089.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17705	chrY	13266346	.	C	G	722.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
17706	chrY	13266368	.	T	G	867.37	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
17707	chrY	13266369	.	T	A	2722.74	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
17708	chrY	13266377	.	G	C	39207.50	PASS	AC=42;AF=0.600;AN=70;BaseQRankSum=

17709	chrY	13266414	.	C	T	788.63	my_snp_filter	AC=12;AF=0.171;AN=70;Base
17710	chrY	13266418	.	C	T,A	4407.39	PASS	AC=18,3;AF=0.257,0.043;AN=70;Base
17711	chrY	13266424	.	C	A,*	8659.19	PASS	AC=7,17;AF=0.100,0.243;AN=70;Base
17712	chrY	13266433	.	T	C,*	6699.46	PASS	AC=6,15;AF=0.086,0.214;AN=70;Base
17713	chrY	13266437	.	G	A,*	8146.43	PASS	AC=26,5;AF=0.371,0.071;AN=70;Base
17714	chrY	13266499	.	A	G	56855.72	PASS	AC=35;AF=0.500;AN=70;Base
17715	chrY	13266520	.	G	T	5158.33	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
17716	chrY	13266533	.	A	C	17790.56	PASS	AC=28;AF=0.400;AN=70;Base
17717	chrY	13266534	.	T	C	154.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
17718	chrY	13266544	.	G	A	392.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
17719	chrY	13266556	.	T	G	119266.72	PASS	AC=35;AF=0.500;AN=70;Base
17720	chrY	13266557	.	G	T	222.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17721	chrY	13266560	.	C	T	120732.72	PASS	AC=35;AF=0.500;AN=70;Base
17722	chrY	13266572	.	A	G	301.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
17723	chrY	13266587	.	C	G	11342.45	my_snp_filter	AC=21;AF=0.300;AN
17724	chrY	13266605	.	T	C	33.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17725	chrY	13266634	.	A	T	30.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17726	chrY	13266656	.	T	C	388.80	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
17727	chrY	13266670	.	G	A	2809.61	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17728	chrY	13266695	.	C	A	78006.72	PASS	AC=35;AF=0.500;AN=70;Base
17729	chrY	13266696	.	A	C	90952.84	PASS	AC=36;AF=0.514;AN=70;Base
17730	chrY	13266717	.	C	T	133.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17731	chrY	13266791	.	A	C	25771.45	PASS	AC=40;AF=0.571;AN=70;Base
17732	chrY	13266803	.	G	A	41.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
17733	chrY	13266852	.	G	A	11500.27	PASS	AC=13;AF=0.361;AN=36;Base
17734	chrY	13266937	.	C	T	301.43	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
17735	chrY	13266949	.	C	T	13126.70	PASS	AC=13;AF=0.542;AN=24;Base
17736	chrY	13266959	.	A	T	4773.70	PASS	AC=13;AF=0.542;AN=24;BaseQRankSum
17737	chrY	13266972	.	A	C	751.34	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
17738	chrY	13266990	.	T	C	4065.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum
17739	chrY	13267083	.	G	A	8507.84	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum
17740	chrY	13267099	.	C	T	915.66	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum
17741	chrY	13267131	.	G	A	596.91	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
17742	chrY	13267168	.	G	T	4211.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17743	chrY	13267189	.	G	C	3533.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17744	chrY	13267197	.	G	A	3329.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17745	chrY	13267224	.	A	T	2535.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17746	chrY	13267251	.	G	A	4881.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17747	chrY	13267260	.	C	T	41.25	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
17748	chrY	13267261	.	G	T	97.45	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
17749	chrY	13267282	.	T	C	5453.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum
17750	chrY	13267301	.	G	A	5571.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum
17751	chrY	13267326	.	G	A	6536.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum
17752	chrY	13267327	.	G	T	254.46	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum
17753	chrY	13267330	.	C	T	1124.18	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum
17754	chrY	13267360	.	T	G	163.99	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum
17755	chrY	13267365	.	C	A	2323.71	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum
17756	chrY	13267371	.	G	A	1758.40	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum
17757	chrY	13267412	.	A	G	3087.92	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum
17758	chrY	13267454	.	G	A	140.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum
17759	chrY	13267465	.	T	G,*	460.82	PASS	AC=3,3;AF=0.188,0.188;AN=16;BaseQ
17760	chrY	13267473	.	T	A	56.83	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum
17761	chrY	13267493	.	G	A	145.70	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum
17762	chrY	13267524	.	A	G	284.05	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum
17763	chrY	13267530	.	T	C	458.62	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum
17764	chrY	13267546	.	T	A,C	876.98	PASS	AC=4,3;AF=0.222,0.167;AN=18;BaseQ
17765	chrY	13267570	.	T	C,A	975.08	PASS	AC=3,4;AF=0.167,0.222;AN=18;BaseQ
17766	chrY	13267641	.	C	T	3241.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17767	chrY	13267672	.	C	G	4666.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17768	chrY	13267711	.	C	G	288.87	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum
17769	chrY	13267780	.	T	C	1498.95	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum
17770	chrY	13267803	.	G	C,A	9399.55	PASS	AC=14,4;AF=0.583,0.167;AN=24;Base
17771	chrY	13267843	.	C	A	12456.34	PASS	AC=11;AF=0.550;AN=20;Base
17772	chrY	13267844	.	C	T	8137.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum
17773	chrY	13267850	.	G	C	12282.34	PASS	AC=11;AF=0.550;AN=20;Base
17774	chrY	13267854	.	A	T	7925.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum
17775	chrY	13267855	.	G	T	219.95	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum
17776	chrY	13267864	.	T	G	10741.34	PASS	AC=11;AF=0.550;AN=20;Base
17777	chrY	13267885	.	C	G	979.72	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum
17778	chrY	13267937	.	A	T	6049.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17779	chrY	13267978	.	G	C	7695.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
17780	chrY	13267992	.	G	A	13435.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
17781	chrY	13268004	.	A	T	1061.45	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum
17782	chrY	13268061	.	A	C	17327.66	PASS	AC=11;AF=0.500;AN=22;Base
17783	chrY	13268062	.	G	A	1889.77	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum
17784	chrY	13268077	.	C	A	18172.66	PASS	AC=11;AF=0.500;AN=22;Base

17785	chrY	13268112	.	A	G	167.77	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
17786	chrY	13268165	.	G	A	9323.08	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
17787	chrY	13268187	.	T	C	10907.58	PASS	AC=11;AF=0.367;AN=30;Base
17788	chrY	13268212	.	C	T	6165.05	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
17789	chrY	13268222	.	G	T	6820.79	PASS	AC=11;AF=0.324;AN=34;BaseQRankSum=
17790	chrY	13268231	.	T	A	1081.20	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
17791	chrY	13268242	.	C	T	443.57	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQ
17792	chrY	13268286	.	C	G	886.75	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
17793	chrY	13268352	.	G	T	432.88	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
17794	chrY	13268361	.	T	C	30920.27	PASS	AC=36;AF=0.643;AN=56;Base
17795	chrY	13268366	.	G	A	710.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17796	chrY	13268376	.	C	T	404.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
17797	chrY	13268377	.	A	G	30906.34	PASS	AC=38;AF=0.633;AN=60;Base
17798	chrY	13268468	.	G	A	1029.02	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
17799	chrY	13268494	.	A	C	85.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
17800	chrY	13268521	.	C	T	43635.70	PASS	AC=44;AF=0.629;AN=70;Base
17801	chrY	13268577	.	G	T	71641.19	PASS	AC=40;AF=0.571;AN=70;Base
17802	chrY	13268593	.	G	T	80819.81	PASS	AC=38;AF=0.543;AN=70;Base
17803	chrY	13268618	.	G	A	103036.15	PASS	AC=35;AF=0.500;AN=70;Base
17804	chrY	13268619	.	T	C	102988.15	PASS	AC=35;AF=0.500;AN=70;Base
17805	chrY	13268644	.	T	C	23375.72	PASS	AC=35;AF=0.500;AN=70;Base
17806	chrY	13268659	.	C	A	1545.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17807	chrY	13268698	.	C	G	62016.72	PASS	AC=35;AF=0.500;AN=70;Base
17808	chrY	13268715	.	G	A	1151.15	my_snp_filter	AC=11;AF=0.157;AN=70;Base
17809	chrY	13268723	.	G	A	66754.53	PASS	AC=35;AF=0.500;AN=70;Base
17810	chrY	13268729	.	C	G	64422.84	PASS	AC=36;AF=0.514;AN=70;Base
17811	chrY	13268767	.	A	C	33665.74	PASS	AC=35;AF=0.500;AN=70;Base
17812	chrY	13268815	.	C	G	29558.16	my_snp_filter	AC=38;AF=0.543;AN
17813	chrY	13268870	.	A	C	16393.22	my_snp_filter	AC=27;AF=0.386;AN
17814	chrY	13268872	.	T	C	16378.94	my_snp_filter	AC=27;AF=0.386;AN
17815	chrY	13268914	.	A	G	3147.04	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
17816	chrY	13268937	.	G	T	40.08	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
17817	chrY	13269016	.	G	T	215.67	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
17818	chrY	13269042	.	T	C	857.65	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
17819	chrY	13269043	.	G	A	857.65	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
17820	chrY	13269069	.	T	C	2676.46	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
17821	chrY	13269070	.	G	A	906.54	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
17822	chrY	13269100	.	G	A	3107.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17823	chrY	13269151	.	T	A	5672.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17824	chrY	13269165	.	A	G	6423.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
17825	chrY	13269202	.	T	G	2540.98	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
17826	chrY	13269230	.	C	T	2422.78	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
17827	chrY	13269269	.	A	G	7612.75	PASS	AC=17;AF=0.654;AN=26;BaseQRankSum=
17828	chrY	13269304	.	C	T	2587.69	PASS	AC=14;AF=0.438;AN=32;BaseQRankSum=
17829	chrY	13269319	.	C	T	2546.42	PASS	AC=14;AF=0.467;AN=30;BaseQRankSum=
17830	chrY	13269369	.	C	G	6827.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17831	chrY	13269424	.	C	T	2453.90	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
17832	chrY	13269449	.	G	A	13185.13	PASS	AC=15;AF=0.250;AN=60;Base
17833	chrY	13269484	.	A	G	3666.26	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
17834	chrY	13269513	.	A	G	1124.16	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
17835	chrY	13269520	.	G	T	869.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17836	chrY	13269524	.	C	T	351.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17837	chrY	13269531	.	G	A	8961.23	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
17838	chrY	13269566	.	A	T	258.88	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
17839	chrY	13269567	.	C	T	1821.05	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
17840	chrY	13269582	.	C	A,*	2018.28	PASS	AC=10,1;AF=0.156,0.016;AN=64;Base
17841	chrY	13269599	.	A	C,*	1148.78	PASS	AC=2,4;AF=0.029,0.059;AN=68;BaseQ
17842	chrY	13269601	.	C	A	547.63	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
17843	chrY	13269607	.	G	C	1127.96	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17844	chrY	13269620	.	T	C	18588.16	PASS	AC=29;AF=0.426;AN=68;Base
17845	chrY	13269622	.	A	G	601.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
17846	chrY	13269636	.	C	T	1469.24	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17847	chrY	13269640	.	C	A	39969.72	PASS	AC=35;AF=0.500;AN=70;Base
17848	chrY	13269644	.	T	C	43974.72	PASS	AC=35;AF=0.500;AN=70;Base
17849	chrY	13269725	.	C	T	2728.09	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
17850	chrY	13269754	.	G	T	1003.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
17851	chrY	13269771	.	A	G	405.62	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
17852	chrY	13269772	.	C	T	16124.07	PASS	AC=31;AF=0.443;AN=70;Base
17853	chrY	13269779	.	T	C	13993.84	PASS	AC=34;AF=0.486;AN=70;Base
17854	chrY	13269786	.	G	A	10637.25	PASS	AC=30;AF=0.429;AN=70;Base
17855	chrY	13269787	.	T	C	969.30	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
17856	chrY	13269803	.	A	C	2633.94	my_snp_filter	AC=20;AF=0.286;AN=70;Base
17857	chrY	13269822	.	T	G	333.78	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
17858	chrY	13269830	.	G	T	1153.65	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
17859	chrY	13269845	.	C	T	12632.75	PASS	AC=30;AF=0.429;AN=70;Base
17860	chrY	13269866	.	C	A	1023.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

17861	chrY	13269877	.	T	A	80150.35	PASS	AC=37;AF=0.529;AN=70;BaseQ
17862	chrY	13269880	.	C	T	70.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17863	chrY	13269925	.	A	C	24789.17	PASS	AC=32;AF=0.457;AN=70;BaseQ
17864	chrY	13269957	.	A	T	50579.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
17865	chrY	13269964	.	T	C	38224.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
17866	chrY	13269990	.	T	C	94144.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
17867	chrY	13270001	.	C	G	89675.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
17868	chrY	13270036	.	A	G	43580.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
17869	chrY	13270050	.	C	T	14942.57	PASS	AC=33;AF=0.471;AN=70;BaseQ
17870	chrY	13270101	.	A	T	573.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17871	chrY	13270157	.	A	G	884.41	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
17872	chrY	13270195	.	T	C	43651.67	PASS	AC=27;AF=0.643;AN=42;BaseQ
17873	chrY	13270201	.	C	T	22356.32	PASS	AC=21;AF=0.457;AN=46;BaseQ
17874	chrY	13270211	.	C	T	98.26	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
17875	chrY	13270225	.	A	G	107.17	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
17876	chrY	13270227	.	C	A	10749.75	PASS	AC=13;AF=0.325;AN=40;BaseQ
17877	chrY	13270281	.	T	G	15007.60	PASS	AC=11;AF=0.550;AN=20;BaseQ
17878	chrY	13270296	.	T	G	18102.45	PASS	AC=11;AF=0.500;AN=22;BaseQ
17879	chrY	13270307	.	G	A	743.55	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
17880	chrY	13270311	.	G	T	29273.52	PASS	AC=11;AF=0.550;AN=20;BaseQ
17881	chrY	13270313	.	T	G	2162.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
17882	chrY	13270330	.	C	T	893.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
17883	chrY	13270406	.	C	A	721.11	my_snp_filter	AC=5;AF=0.179;AN=28;BaseQ
17884	chrY	13270455	.	G	T	9696.54	PASS	AC=15;AF=0.469;AN=32;BaseQRankSum=
17885	chrY	13270461	.	A	G	167.17	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
17886	chrY	13270502	.	A	G	9648.04	PASS	AC=16;AF=0.500;AN=32;BaseQRankSum=
17887	chrY	13270603	.	G	A	17287.09	PASS	AC=17;AF=0.258;AN=66;BaseQ
17888	chrY	13270609	.	G	C	17145.05	PASS	AC=19;AF=0.279;AN=68;BaseQ
17889	chrY	13270614	.	G	A	24584.14	PASS	AC=36;AF=0.563;AN=64;BaseQ
17890	chrY	13270657	.	G	T	724.24	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17891	chrY	13270670	.	G	A	4123.86	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
17892	chrY	13270696	.	G	A	2234.71	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
17893	chrY	13270702	.	G	A	6912.38	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
17894	chrY	13270703	.	G	A	996.84	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
17895	chrY	13270723	.	G	A	474.71	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
17896	chrY	13270742	.	A	G	47.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17897	chrY	13270745	.	A	G	64794.23	PASS	AC=37;AF=0.529;AN=70;BaseQ
17898	chrY	13270757	.	C	T	908.70	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
17899	chrY	13270763	.	C	T	2102.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
17900	chrY	13270797	.	A	G	5366.88	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
17901	chrY	13270800	.	C	A	117.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
17902	chrY	13270807	.	T	G	180.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
17903	chrY	13270880	.	C	G	478.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
17904	chrY	13270885	.	A	C	19453.34	PASS	AC=29;AF=0.414;AN=70;BaseQ
17905	chrY	13270902	.	C	T	17358.41	PASS	AC=27;AF=0.386;AN=70;BaseQ
17906	chrY	13270946	.	C	T	4130.45	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
17907	chrY	13270952	.	C	T	1785.22	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17908	chrY	13270993	.	A	C	9454.38	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
17909	chrY	13271015	.	A	G	5721.49	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
17910	chrY	13271055	.	G	A	18144.58	PASS	AC=27;AF=0.386;AN=70;BaseQ
17911	chrY	13271065	.	C	G,*	19794.89	PASS	AC=25,1;AF=0.357,0.014;AN
17912	chrY	13271074	.	T	C	20713.53	PASS	AC=27;AF=0.386;AN=70;BaseQ
17913	chrY	13271159	.	C	T	11674.95	PASS	AC=24;AF=0.353;AN=68;BaseQ
17914	chrY	13271160	.	A	G	20630.03	PASS	AC=38;AF=0.559;AN=68;BaseQ
17915	chrY	13271184	.	G	A	11885.09	PASS	AC=22;AF=0.344;AN=64;BaseQ
17916	chrY	13271202	.	C	A	9937.44	PASS	AC=16;AF=0.381;AN=42;BaseQRankSum=
17917	chrY	13271282	.	G	T	11979.37	PASS	AC=13;AF=0.591;AN=22;BaseQ
17918	chrY	13271355	.	G	A	29932.51	PASS	AC=27;AF=0.643;AN=42;BaseQ
17919	chrY	13271361	.	G	T	23241	PASS	AC=26;AF=0.619;AN=42;BaseQRankSum=
17920	chrY	13271367	.	A	C	8696.70	PASS	AC=25;AF=0.568;AN=44;BaseQRankSum=
17921	chrY	13271388	.	C	T	9173.14	PASS	AC=21;AF=0.362;AN=58;BaseQRankSum=
17922	chrY	13271486	.	T	C	12125.74	PASS	AC=33;AF=0.471;AN=70;BaseQ
17923	chrY	13271549	.	G	T	118.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17924	chrY	13271567	.	G	A	229.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
17925	chrY	13271585	.	G	A	1867.62	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
17926	chrY	13271634	.	G	T	534.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17927	chrY	13271683	.	A	G	62841.94	PASS	AC=38;AF=0.543;AN=70;BaseQ
17928	chrY	13271758	.	C	T	64024.58	PASS	AC=38;AF=0.543;AN=70;BaseQ
17929	chrY	13271765	.	A	G	67697.01	PASS	AC=40;AF=0.571;AN=70;BaseQ
17930	chrY	13271793	.	C	G	1628.30	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
17931	chrY	13271797	.	G	A	2485.67	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
17932	chrY	13271808	.	G	A	77863.01	PASS	AC=41;AF=0.586;AN=70;BaseQ
17933	chrY	13271860	.	A	T	30154.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
17934	chrY	13271885	.	T	A	78371.04	PASS	AC=36;AF=0.514;AN=70;BaseQ
17935	chrY	13271904	.	A	G	73002.85	PASS	AC=36;AF=0.514;AN=70;BaseQ
17936	chrY	13271906	.	A	T	2242.73	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=

17937	chrY	13271912	.	G	A	15475.93	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
17938	chrY	13271933	.	T	A	50785.14	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
17939	chrY	13271938	.	C	A	9004.73	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
17940	chrY	13272046	.	A	G	51658.95	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17941	chrY	13272065	.	A	G	46924.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
17942	chrY	13272067	.	A	C	45906.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
17943	chrY	13272147	.	T	A	11392.83	my_snp_filter	AC=11;AF=0.289;AN=70;BaseQRankSum=
17944	chrY	13272168	.	A	G	11139.94	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
17945	chrY	13272202	.	C	T,A	2139.59	PASS	AC=7,1;AF=0.219,0.031;AN=32;BaseQRankSum=
17946	chrY	13272212	.	T	C	18393.48	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
17947	chrY	13272244	.	G	C	20879.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
17948	chrY	13272252	.	G	T	8762.29	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
17949	chrY	13272253	.	C	G	6523.58	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
17950	chrY	13272281	.	A	T	9293.13	PASS	AC=13;AF=0.325;AN=40;BaseQRankSum=
17951	chrY	13272291	.	G	A	8996.05	PASS	AC=13;AF=0.325;AN=40;BaseQRankSum=
17952	chrY	13272378	.	C	T	1437.43	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
17953	chrY	13272385	.	A	G	11144.11	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
17954	chrY	13272412	.	T	C	6388.54	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
17955	chrY	13272416	.	C	T	262.20	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
17956	chrY	13272438	.	A	G	86.17	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
17957	chrY	13272455	.	T	C	7537.59	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
17958	chrY	13272471	.	A	G	127.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17959	chrY	13272490	.	T	C	11328.23	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
17960	chrY	13272657	.	C	G	53.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
17961	chrY	13272677	.	T	C	26913.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17962	chrY	13272678	.	A	G	26889.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17963	chrY	13272689	.	C	G	25223.88	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
17964	chrY	13272692	.	A	G	31178.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
17965	chrY	13272696	.	A	G	240.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
17966	chrY	13272705	.	T	C	66941.81	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum=
17967	chrY	13272732	.	G	A	213.45	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
17968	chrY	13272738	.	T	C	56862.36	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum=
17969	chrY	13272739	.	T	C	16972.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
17970	chrY	13272750	.	T	G	112.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17971	chrY	13272793	.	G	A	167.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
17972	chrY	13272849	.	A	G	5665.26	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
17973	chrY	13272875	.	T	C	7674.02	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum=
17974	chrY	13272878	.	C	G	98.32	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
17975	chrY	13272881	.	G	C	750.40	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
17976	chrY	13272915	.	C	T	866.74	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQRankSum=
17977	chrY	13272929	.	C	T	14219.26	PASS	AC=16;AF=0.444;AN=36;BaseQRankSum=
17978	chrY	13272930	.	G	A	748.18	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
17979	chrY	13272956	.	G	A	17548.24	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=
17980	chrY	13272957	.	T	C	17524.24	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=
17981	chrY	13272967	.	G	T	128.71	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
17982	chrY	13272976	.	C	A	68.43	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQRankSum=
17983	chrY	13273005	.	G	A	11960.04	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
17984	chrY	13273033	.	C	T	95.48	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQRankSum=
17985	chrY	13273036	.	G	T	2613.97	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
17986	chrY	13273047	.	G	A	875.58	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
17987	chrY	13273058	.	C	G	79.11	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQRankSum=
17988	chrY	13273065	.	A	C	13064.50	PASS	AC=17;AF=0.304;AN=56;BaseQRankSum=
17989	chrY	13273100	.	A	G	1787.16	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
17990	chrY	13273127	.	G	C	6528.88	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQRankSum=
17991	chrY	13273189	.	G	T	3195.15	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
17992	chrY	13273197	.	A	C	183.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
17993	chrY	13273223	.	C	G	3751.51	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
17994	chrY	13273227	.	C	T	3975.71	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
17995	chrY	13273282	.	G	A	3291.46	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
17996	chrY	13273297	.	G	C	3825.88	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
17997	chrY	13273402	.	A	G	80	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
17998	chrY	13273416	.	G	A	319.25	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
17999	chrY	13273424	.	A	G	382.24	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18000	chrY	13273425	.	C	T	424.08	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18001	chrY	13273430	.	G	A	417.89	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18002	chrY	13273432	.	G	A	422.09	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18003	chrY	13273545	.	C	T	539.08	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
18004	chrY	13273579	.	T	C	1714.92	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
18005	chrY	13273603	.	C	T	253.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18006	chrY	13273630	.	T	C	2997.40	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQRankSum=
18007	chrY	13273664	.	A	C	3827.35	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
18008	chrY	13273704	.	T	C	375.78	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
18009	chrY	13273710	.	T	C	785.59	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
18010	chrY	13273718	.	C	T	875.47	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
18011	chrY	13273719	.	T	G	904.14	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
18012	chrY	13273729	.	G	A	959.82	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=

18013	chrY	13273750	.	T	G	3696.95	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
18014	chrY	13273753	.	T	A	3629.47	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
18015	chrY	13273812	.	C	T	91.10	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
18016	chrY	13273813	.	A	G	91.82	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
18017	chrY	13273814	.	A	G	339.47	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
18018	chrY	13273818	.	A	G	670.55	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
18019	chrY	13273832	.	C	A	40.63	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
18020	chrY	13273833	.	A	C	683.82	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
18021	chrY	13273844	.	G	C	1226.33	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18022	chrY	13273873	.	A	G	217.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18023	chrY	13273905	.	A	G	98.32	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
18024	chrY	13273917	.	T	C	47.10	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
18025	chrY	13273981	.	C	T	377.79	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18026	chrY	13273986	.	T	C	363.35	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18027	chrY	13273993	.	C	A	2990.12	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
18028	chrY	13273994	.	C	T	2989.84	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
18029	chrY	13274001	.	A	T	234.14	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
18030	chrY	13274032	.	G	A	107.41	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
18031	chrY	13274061	.	C	A	544.69	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
18032	chrY	13274072	.	A	G	45.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18033	chrY	13274075	.	T	C	45.81	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18034	chrY	13274076	.	G	A	48.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18035	chrY	13274086	.	G	A	44.58	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
18036	chrY	13274230	.	G	T	104.72	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
18037	chrY	13274236	.	G	A	1029.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18038	chrY	13274272	.	A	C	1141.87	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
18039	chrY	13274282	.	A	G	384.07	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
18040	chrY	13274297	.	A	G	275.41	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
18041	chrY	13274339	.	T	G	1141.18	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
18042	chrY	13274346	.	T	C	183.89	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
18043	chrY	13274349	.	T	C	594.09	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
18044	chrY	13274362	.	G	T	173.62	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
18045	chrY	13274416	.	A	G	3439.94	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
18046	chrY	13274418	.	C	T	344.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18047	chrY	13274425	.	C	T	8029.37	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
18048	chrY	13274456	.	A	G	395.69	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18049	chrY	13274458	.	G	A	389.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18050	chrY	13274468	.	T	C	13266.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
18051	chrY	13274511	.	A	G	13336.08	PASS	AC=34;AF=0.486;AN=70;BaseQ
18052	chrY	13274513	.	C	A	2071.77	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
18053	chrY	13274517	.	C	T	2075	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
18054	chrY	13274568	.	A	G	7207.96	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
18055	chrY	13274598	.	T	C	2307.05	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
18056	chrY	13274615	.	T	C	2086.05	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18057	chrY	13274621	.	C	G	1042.15	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
18058	chrY	13274650	.	C	T	37.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18059	chrY	13274833	.	C	T	33.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18060	chrY	13274848	.	A	G	36.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18061	chrY	13274869	.	T	C	83.39	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18062	chrY	13274877	.	T	C	343	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
18063	chrY	13274907	.	G	A	30.85	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
18064	chrY	13275001	.	T	C	93.40	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
18065	chrY	13275002	.	C	T	1194.84	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
18066	chrY	13275010	.	A	C	1678.72	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
18067	chrY	13275119	.	A	G	182.15	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
18068	chrY	13275144	.	T	C	72.29	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
18069	chrY	13275211	.	A	G	2595.18	PASS	AC=12;AF=0.400;AN=30;BaseQRankSum=
18070	chrY	13275223	.	G	T	1638.75	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
18071	chrY	13275309	.	G	A	1404.19	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
18072	chrY	13275341	.	T	C	1285.27	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
18073	chrY	13275343	.	C	T	3281.03	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
18074	chrY	13275347	.	C	G	1027.27	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
18075	chrY	13275372	.	C	T	1100.76	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
18076	chrY	13275524	.	G	T	1534.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18077	chrY	13275576	.	T	A	540.18	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
18078	chrY	13275577	.	A	G	1663.06	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
18079	chrY	13275588	.	T	C	1978.09	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
18080	chrY	13275589	.	G	A	1773.74	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
18081	chrY	13275640	.	C	T	1433.19	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
18082	chrY	13275657	.	A	T	956	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
18083	chrY	13275688	.	C	T	1144.75	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18084	chrY	13275764	.	T	G	1440.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
18085	chrY	13275767	.	C	G	3668.24	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
18086	chrY	13275788	.	G	A	1732.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
18087	chrY	13275812	.	C	T	192.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
18088	chrY	13275853	.	T	A	1695.55	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ

18089	chrY	13275907	.	C	G	158.34	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
18090	chrY	13275918	.	C	T	1873.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18091	chrY	13275934	.	A	G	1723.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18092	chrY	13275983	.	C	T	357.82	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18093	chrY	13276016	.	T	C	6187.53	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18094	chrY	13276017	.	A	G	280.24	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
18095	chrY	13276057	.	C	G	799.21	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
18096	chrY	13276064	.	C	G	404.24	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
18097	chrY	13276075	.	G	T	862.48	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
18098	chrY	13276077	.	T	C	33.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
18099	chrY	13276101	.	T	G	31.32	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
18100	chrY	13276128	.	A	T	3642.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18101	chrY	13276278	.	C	G	3065.89	PASS	AC=13;AF=0.591;AN=22;BaseQRankSum=
18102	chrY	13276363	.	T	C	2040.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18103	chrY	13276382	.	G	T	1754.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18104	chrY	13276411	.	C	T	1100.60	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18105	chrY	13276416	.	C	A	1128.54	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
18106	chrY	13276504	.	G	A	124.79	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
18107	chrY	13276576	.	T	G	603.54	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
18108	chrY	13276709	.	G	C	31.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18109	chrY	13276713	.	C	T	206.33	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18110	chrY	13277037	.	G	T	66.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18111	chrY	13277165	.	G	A	3681.98	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
18112	chrY	13277195	.	G	C	356.15	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
18113	chrY	13277231	.	C	T	963.12	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18114	chrY	13277239	.	C	T	978.86	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18115	chrY	13277296	.	C	A	122.11	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18116	chrY	13277303	.	G	A	987.17	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
18117	chrY	13277375	.	C	T	2026.36	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
18118	chrY	13277384	.	G	A	2232.48	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
18119	chrY	13277464	.	G	A	4096.87	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
18120	chrY	13277499	.	G	A	8018.78	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum=
18121	chrY	13277512	.	A	G	3155.60	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
18122	chrY	13277522	.	C	A	3135.15	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
18123	chrY	13277608	.	A	T	2838.09	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18124	chrY	13277616	.	C	T	3228.29	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18125	chrY	13277647	.	A	G	1021.40	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
18126	chrY	13277676	.	G	A	2887.47	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
18127	chrY	13277678	.	C	A	7268.99	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
18128	chrY	13277719	.	A	G	1842.76	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
18129	chrY	13277752	.	A	G	1559.20	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
18130	chrY	13277762	.	G	T	791.43	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
18131	chrY	13277778	.	T	A	454.07	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
18132	chrY	13277796	.	C	A	2979.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18133	chrY	13277809	.	C	T	2831.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18134	chrY	13277811	.	A	C	715.09	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
18135	chrY	13277815	.	G	A	2582.66	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18136	chrY	13277822	.	T	C	2474.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18137	chrY	13277830	.	A	G	2045.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18138	chrY	13277841	.	C	T	1865.78	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18139	chrY	13277874	.	T	C	414.44	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
18140	chrY	13277880	.	C	G	230.89	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
18141	chrY	13277901	.	A	G	551.51	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
18142	chrY	13277920	.	T	C	828.02	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
18143	chrY	13277969	.	T	C	1442.81	PASS	AC=13;AF=0.260;AN=50;BaseQRankSum=
18144	chrY	13277992	.	G	A	2252.10	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
18145	chrY	13278053	.	G	A,*	1087.32	PASS	AC=9,4;AF=0.145,0.065;AN=62;BaseQ
18146	chrY	13278057	.	T	A	1309.38	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
18147	chrY	13278209	.	T	G	299.98	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
18148	chrY	13278249	.	A	G	60.65	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
18149	chrY	13278251	.	T	A	602.08	my_snp_filter	AC=7;AF=0.175;AN=40;BaseQ
18150	chrY	13278376	.	C	T	270.38	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
18151	chrY	13278458	.	T	G	163.60	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
18152	chrY	13278488	.	G	C	404.29	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18153	chrY	13278499	.	A	T	664.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18154	chrY	13278602	.	G	A	1541.93	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
18155	chrY	13278706	.	A	T	1082.89	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
18156	chrY	13278784	.	C	A	4053.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
18157	chrY	13278795	.	G	T	2599.42	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18158	chrY	13278845	.	C	A	3259.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18159	chrY	13278865	.	G	A	69.80	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
18160	chrY	13278875	.	A	T	3629.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18161	chrY	13278941	.	T	C	1048.91	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
18162	chrY	13278957	.	G	C	1280.51	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
18163	chrY	13278976	.	C	G	578.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
18164	chrY	13278986	.	G	C	7385.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=

18165	chrY	13279001	.	T	A	1900.58	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18166	chrY	13279006	.	T	A	1914.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
18167	chrY	13279035	.	T	C	2291.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18168	chrY	13279059	.	A	T	2410.71	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
18169	chrY	13279067	.	T	C	2464.18	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
18170	chrY	13279130	.	T	C	743.37	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
18171	chrY	13279152	.	T	A	599.47	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
18172	chrY	13279189	.	T	A	6853.25	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
18173	chrY	13279279	.	T	G	3972.82	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
18174	chrY	13279343	.	C	T	1211.04	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
18175	chrY	13279374	.	T	A	266.30	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
18176	chrY	13279495	.	C	G	395.19	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
18177	chrY	13279551	.	C	A	352.96	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
18178	chrY	13279552	.	G	T	554.61	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
18179	chrY	13279556	.	T	C	1350.67	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
18180	chrY	13279633	.	A	G	160.93	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
18181	chrY	13279675	.	A	G	157.06	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
18182	chrY	13279683	.	T	C	1390.21	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18183	chrY	13279688	.	A	G	4614.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
18184	chrY	13279719	.	T	C	84.63	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
18185	chrY	13279768	.	C	T	1785.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
18186	chrY	13279808	.	G	A	699.34	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
18187	chrY	13279857	.	G	T	636.54	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
18188	chrY	13279866	.	C	T	5614.10	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=
18189	chrY	13279891	.	G	A	894.12	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
18190	chrY	13279893	.	A	G	1698.66	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
18191	chrY	13279896	.	C	A	1634.50	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
18192	chrY	13279902	.	G	T	4670.28	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
18193	chrY	13279906	.	G	A	265.80	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
18194	chrY	13279932	.	A	T	4182.41	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
18195	chrY	13279938	.	T	C	6422.89	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
18196	chrY	13279940	.	G	A	3310.13	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
18197	chrY	13279942	.	G	T	306.37	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
18198	chrY	13279954	.	T	C	1441.64	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
18199	chrY	13279955	.	G	A	1446.42	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
18200	chrY	13279994	.	G	A	1014.70	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
18201	chrY	13280004	.	A	T	973.14	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
18202	chrY	13280010	.	A	T	890.90	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
18203	chrY	13280016	.	A	T	678.86	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
18204	chrY	13280021	.	A	G	651.08	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
18205	chrY	13280029	.	C	T	518.60	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18206	chrY	13280086	.	G	A	60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18207	chrY	13280097	.	T	A	554.52	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18208	chrY	13280102	.	T	A	474.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18209	chrY	13280112	.	T	C	58.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18210	chrY	13280119	.	C	T	416.38	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
18211	chrY	13280230	.	T	G	1401.83	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
18212	chrY	13280278	.	A	T	1097.50	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
18213	chrY	13280649	.	C	T	446.27	PASS	AC=2;AF=0.029;AN=70;DP=664;FS=0.0
18214	chrY	13280899	.	T	G	252.08	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
18215	chrY	13280948	.	T	C	409.98	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
18216	chrY	13281196	.	G	T	250.37	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
18217	chrY	13281306	.	T	C	65.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
18218	chrY	13281317	.	T	C	2899.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18219	chrY	13281348	.	G	A	4084.91	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
18220	chrY	13281450	.	C	G	3915.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
18221	chrY	13281648	.	A	G	106.41	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18222	chrY	13281656	.	T	C	112.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18223	chrY	13281770	.	G	A	165.98	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
18224	chrY	13281885	.	C	T	594.06	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
18225	chrY	13281889	.	T	A	314.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
18226	chrY	13281897	.	C	G	621.27	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
18227	chrY	13281913	.	A	G	662.55	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
18228	chrY	13281928	.	A	G	367.92	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
18229	chrY	13281963	.	G	A	394.58	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
18230	chrY	13281996	.	T	G	435.27	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
18231	chrY	13282001	.	T	C	391.52	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
18232	chrY	13282108	.	A	T	671.94	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
18233	chrY	13282118	.	T	C	638.91	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
18234	chrY	13282186	.	T	G	2166.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
18235	chrY	13282244	.	T	G	125.42	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
18236	chrY	13282266	.	T	C	228.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
18237	chrY	13282302	.	C	T	2581.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18238	chrY	13282377	.	C	T	4136.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18239	chrY	13282382	.	G	A	34.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
18240	chrY	13282388	.	A	G	37.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ

18241	chrY	13282397	.	T	A	558.19	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
18242	chrY	13282461	.	C	A	119.77	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
18243	chrY	13282490	.	G	C	632.87	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
18244	chrY	13282545	.	T	C	810.81	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18245	chrY	13282568	.	T	C	515.87	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
18246	chrY	13282580	.	A	G	1068.37	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
18247	chrY	13282587	.	A	G	1210.92	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
18248	chrY	13282620	.	A	C	932.81	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
18249	chrY	13282709	.	G	A	934.77	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
18250	chrY	13282718	.	A	G	952.68	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
18251	chrY	13282773	.	G	A	134.67	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
18252	chrY	13283206	.	A	G	183.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18253	chrY	13283302	.	A	G	84.49	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
18254	chrY	13283394	.	G	T	89.19	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
18255	chrY	13283652	.	G	A	82.15	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
18256	chrY	13283696	.	C	T	611.07	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
18257	chrY	13283717	.	G	A	787.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
18258	chrY	13283757	.	A	G	391.15	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
18259	chrY	13283758	.	T	C	773.47	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
18260	chrY	13283804	.	A	T	255.09	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
18261	chrY	13283860	.	T	C	894.85	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
18262	chrY	13283930	.	G	T	1696.68	my_snp_filter	AC=10;AF=0.179;AN=56;BaseQ
18263	chrY	13283966	.	C	T	1199.58	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18264	chrY	13283983	.	A	G	930.82	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18265	chrY	13283986	.	T	C	835.90	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18266	chrY	13283995	.	C	T	451.55	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18267	chrY	13283999	.	G	A	317.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18268	chrY	13284034	.	C	T	928.41	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18269	chrY	13284038	.	C	G	636.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18270	chrY	13284043	.	C	G	181.42	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18271	chrY	13284047	.	T	G	2904.86	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
18272	chrY	13284153	.	A	G	506.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18273	chrY	13284161	.	C	T	879.17	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
18274	chrY	13284170	.	A	G	5383.37	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18275	chrY	13284205	.	G	C	103.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18276	chrY	13284222	.	C	T	170.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18277	chrY	13284249	.	A	G	111.18	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
18278	chrY	13284293	.	G	A	213.98	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
18279	chrY	13284314	.	T	A	165.99	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
18280	chrY	13284557	.	T	C	41.39	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
18281	chrY	13284569	.	C	T	7156.22	PASS	AC=56;AF=0.824;AN=68;DP=301;FS=0.
18282	chrY	13284727	.	C	T	185.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18283	chrY	13284731	.	T	C	176.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18284	chrY	13284746	.	G	A	197.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18285	chrY	13284814	.	C	T	178.52	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18286	chrY	13284816	.	G	A	126.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18287	chrY	13285136	.	T	C	531.60	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
18288	chrY	13285142	.	G	T	515.03	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18289	chrY	13285180	.	C	T	52.10	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
18290	chrY	13285211	.	A	G	31.91	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18291	chrY	13285306	.	C	T	565.08	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
18292	chrY	13285335	.	C	T	803.40	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18293	chrY	13285358	.	C	T	39.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18294	chrY	13285359	.	G	A	807.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18295	chrY	13285380	.	A	G	485.44	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18296	chrY	13285439	.	A	G	52.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18297	chrY	13285453	.	T	A	70.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18298	chrY	13285455	.	A	G	69.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18299	chrY	13285469	.	A	C	90.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18300	chrY	13285501	.	T	C	409.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18301	chrY	13285514	.	G	A	418.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18302	chrY	13285561	.	G	A	427.50	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
18303	chrY	13285593	.	A	C	2815.72	my_snp_filter	AC=9;AF=0.205;AN=44;BaseQ
18304	chrY	13285600	.	C	T	489.03	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
18305	chrY	13285631	.	C	T	30.93	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
18306	chrY	13285658	.	G	A	2997.29	PASS	AC=13;AF=0.325;AN=40;BaseQRankSum=
18307	chrY	13285674	.	T	C	341.39	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
18308	chrY	13285720	.	A	G	2554.11	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum=
18309	chrY	13285737	.	G	T	2981.24	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
18310	chrY	13285749	.	C	T	2941.10	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=
18311	chrY	13285755	.	T	G	920.44	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
18312	chrY	13285779	.	C	T	7288.75	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
18313	chrY	13285803	.	C	T	112.48	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
18314	chrY	13285820	.	C	T	3226.07	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
18315	chrY	13285827	.	T	C	2077.58	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
18316	chrY	13285885	.	G	A	2787.20	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=

18317	chrY	13285890	.	G	A	2724.20	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
18318	chrY	13285921	.	G	C	6868.27	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
18319	chrY	13285938	.	G	T	391.77	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
18320	chrY	13285953	.	A	G	1094.22	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
18321	chrY	13285963	.	G	T	79.54	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
18322	chrY	13285977	.	A	T	857.39	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18323	chrY	13286013	.	G	A	133.58	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18324	chrY	13286036	.	G	A	1024.79	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18325	chrY	13286045	.	A	T	1025.37	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18326	chrY	13286091	.	G	A	1014.41	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18327	chrY	13286117	.	A	C	2715.39	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
18328	chrY	13286124	.	T	G	109.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18329	chrY	13286155	.	C	T	795.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18330	chrY	13286165	.	C	T	30.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18331	chrY	13286202	.	C	G	15419.73	PASS	AC=35;AF=0.500;AN=70;Base
18332	chrY	13286235	.	G	A	74.62	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18333	chrY	13286242	.	A	G	101.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18334	chrY	13286244	.	G	A	102.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18335	chrY	13286289	.	A	G	6332.12	my_snp_filter	AC=23;AF=0.329;AN=70;Base
18336	chrY	13286306	.	C	A	3732.44	my_snp_filter	AC=24;AF=0.343;AN=70;Base
18337	chrY	13286336	.	C	T	115.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18338	chrY	13286346	.	G	A	86.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18339	chrY	13286454	.	A	C	124.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18340	chrY	13286469	.	A	T	496.89	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18341	chrY	13286494	.	A	G	1083.94	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
18342	chrY	13286507	.	A	G	1277.17	my_snp_filter	AC=11;AF=0.162;AN=68;Base
18343	chrY	13286625	.	C	G	4373.99	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18344	chrY	13286631	.	C	T	221.26	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18345	chrY	13286655	.	C	G	8194.74	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
18346	chrY	13286680	.	T	G	910.65	my_snp_filter	AC=16;AF=0.235;AN=68;Base
18347	chrY	13286686	.	G	A	602.41	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18348	chrY	13286727	.	G	C	169.50	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18349	chrY	13286773	.	A	T	4265.27	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
18350	chrY	13286832	.	T	C	6095.68	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
18351	chrY	13286840	.	T	G	6034.32	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=
18352	chrY	13286864	.	C	T	3841	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18353	chrY	13286869	.	T	C	4666.76	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
18354	chrY	13286874	.	G	A	4034.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18355	chrY	13286888	.	C	T	5011.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18356	chrY	13286895	.	T	C	3465.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18357	chrY	13286942	.	A	G	997.57	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
18358	chrY	13286948	.	A	G	2351.70	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum=
18359	chrY	13286953	.	T	C	798.29	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
18360	chrY	13286974	.	G	T	1078.97	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
18361	chrY	13286988	.	G	A	2601.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
18362	chrY	13287015	.	A	G	2071.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18363	chrY	13287066	.	A	C	5680.66	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=
18364	chrY	13287080	.	T	C	496.08	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
18365	chrY	13287081	.	G	A	496.08	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
18366	chrY	13287107	.	A	G	1309.06	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
18367	chrY	13287142	.	G	T	1820.06	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18368	chrY	13287177	.	A	G	1392.78	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18369	chrY	13287202	.	A	G	1287.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18370	chrY	13287203	.	G	T	1221.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18371	chrY	13287332	.	C	T	349.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18372	chrY	13287377	.	T	C	1575.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18373	chrY	13287378	.	T	G	1686.98	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18374	chrY	13287385	.	G	C	1214.36	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
18375	chrY	13287397	.	C	A	254.92	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
18376	chrY	13287415	.	C	G	309.28	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
18377	chrY	13287471	.	T	C	121.20	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
18378	chrY	13287496	.	G	A	692.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18379	chrY	13287525	.	C	T	1233.55	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18380	chrY	13287533	.	T	G	1225.14	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18381	chrY	13287651	.	G	C	166.09	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
18382	chrY	13287654	.	T	G	52.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
18383	chrY	13287658	.	A	G	53.21	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
18384	chrY	13287664	.	C	T	161.19	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
18385	chrY	13287673	.	G	A	1804.74	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
18386	chrY	13287677	.	G	A	158.90	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
18387	chrY	13287691	.	A	C	31.81	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
18388	chrY	13287706	.	A	G	4096.30	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
18389	chrY	13287711	.	A	G	4238.20	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
18390	chrY	13287724	.	A	T	4990.86	PASS	AC=28;AF=0.519;AN=54;BaseQRankSum=
18391	chrY	13287733	.	A	G	200.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18392	chrY	13287734	.	T	C	4296.49	PASS	AC=28;AF=0.500;AN=56;BaseQRankSum=

18393	chrY	13287753	.	G	A	199.48	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
18394	chrY	13287797	.	G	T	104.32	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
18395	chrY	13287798	.	G	A	315.99	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
18396	chrY	13287811	.	G	A	82.32	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
18397	chrY	13287869	.	A	G	250.39	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
18398	chrY	13287883	.	A	G	381.75	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
18399	chrY	13287957	.	A	T,*	829.15	PASS	AC=3,2;AF=0.167,0.111;AN=18;BaseQ
18400	chrY	13287959	.	T	A	281.46	PASS	AC=5;AF=0.313;AN=16;BaseQRankSum=
18401	chrY	13287963	.	T	C,G	2129.92	PASS	AC=7,1;AF=0.389,0.056;AN=18;BaseQ
18402	chrY	13287973	.	A	C	1873.30	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
18403	chrY	13287975	.	A	C	113.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18404	chrY	13287984	.	T	C	514.21	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
18405	chrY	13287995	.	G	T	674.61	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
18406	chrY	13288012	.	T	C	3419.15	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18407	chrY	13288030	.	A	T	3634.19	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
18408	chrY	13288034	.	G	T,A	523.46	PASS	AC=1,1;AF=0.050,0.050;AN=20;BaseQ
18409	chrY	13288035	.	G	A	1054.64	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
18410	chrY	13288049	.	G	A	1058.61	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
18411	chrY	13288077	.	C	A	2424.44	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
18412	chrY	13288105	.	G	A	137.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
18413	chrY	13288187	.	C	T	109.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
18414	chrY	13288294	.	G	T	5343.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
18415	chrY	13288325	.	T	A	74.97	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
18416	chrY	13288397	.	G	A	2657.44	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
18417	chrY	13288444	.	C	G	1410.55	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
18418	chrY	13288520	.	G	A	10902.86	PASS	AC=29;AF=0.414;AN=70;BaseQ
18419	chrY	13288525	.	C	A	11755.59	PASS	AC=30;AF=0.429;AN=70;BaseQ
18420	chrY	13288557	.	G	A	13105.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
18421	chrY	13288591	.	C	T	1616.89	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18422	chrY	13288614	.	C	T	17111.79	PASS	AC=36;AF=0.514;AN=70;BaseQ
18423	chrY	13288628	.	G	A	75.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18424	chrY	13288637	.	T	A	55.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18425	chrY	13288657	.	G	A	95.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18426	chrY	13288658	.	G	T	88.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18427	chrY	13288691	.	C	T	63.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18428	chrY	13288698	.	T	C	58.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18429	chrY	13288699	.	G	A	831.50	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18430	chrY	13288759	.	A	T	829.50	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18431	chrY	13288781	.	T	C	27242.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
18432	chrY	13288823	.	G	A	3891.09	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQ
18433	chrY	13288844	.	G	A	441.32	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
18434	chrY	13288854	.	A	T	4982.86	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
18435	chrY	13288865	.	C	T	999.97	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18436	chrY	13288875	.	T	A	5024.03	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
18437	chrY	13289001	.	T	C	258.74	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18438	chrY	13289035	.	G	A	97.32	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18439	chrY	13289048	.	C	T	137.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18440	chrY	13289246	.	A	C	236.33	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
18441	chrY	13289255	.	C	T	73.18	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
18442	chrY	13289267	.	C	T	996.07	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
18443	chrY	13289274	.	A	C	220.44	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
18444	chrY	13289310	.	G	T	180.21	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
18445	chrY	13289321	.	C	A	41.37	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
18446	chrY	13289342	.	G	A	51.31	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
18447	chrY	13289343	.	C	T	91.94	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
18448	chrY	13289362	.	C	T	85.10	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
18449	chrY	13289417	.	T	G	915.80	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
18450	chrY	13289421	.	G	A	204.96	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
18451	chrY	13289456	.	T	G	106.51	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
18452	chrY	13289460	.	C	T	31.30	PASS	AC=2;AF=0.063;AN=32;DP=207;FS=0.0
18453	chrY	13289476	.	C	T	208.13	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
18454	chrY	13289640	.	T	A	327.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18455	chrY	13289646	.	A	T	323.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18456	chrY	13289657	.	G	T	240.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18457	chrY	13289774	.	A	G	221.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18458	chrY	13289791	.	G	A	163.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18459	chrY	13289803	.	C	A	771.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18460	chrY	13289813	.	T	A	627.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18461	chrY	13289820	.	T	C	600.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18462	chrY	13289855	.	G	A	2820.15	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
18463	chrY	13289888	.	T	C	758.54	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18464	chrY	13289904	.	C	T	9692.63	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQ
18465	chrY	13289947	.	C	G,*	984.57	my_snp_filter	AC=1,9;AF=0.014,0.129;AN=
18466	chrY	13289948	.	C	G,*	979.62	my_snp_filter	AC=1,9;AF=0.014,0.129;AN=
18467	chrY	13289950	.	A	G,*	1267.91	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQ
18468	chrY	13289953	.	A	G	19022.07	PASS	AC=46;AF=0.657;AN=70;BaseQ

18469	chrY	13289956	.	G	A,*	1161.52	PASS	AC=5,5;AF=0.071,0.071;AN=70;BaseQ
18470	chrY	13289985	.	C	T	34029.93	PASS	AC=47;AF=0.671;AN=70;BaseQ
18471	chrY	13290007	.	G	A	37200.48	PASS	AC=49;AF=0.700;AN=70;BaseQ
18472	chrY	13290008	.	T	G	1898.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18473	chrY	13290059	.	G	C	783.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18474	chrY	13290075	.	T	C	30.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18475	chrY	13290109	.	A	G	593.54	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18476	chrY	13290136	.	A	T	5550.62	my_snp_filter	AC=33;AF=0.550;AN=60;BaseQ
18477	chrY	13290187	.	A	G	2205.35	my_snp_filter	AC=16;AF=0.267;AN=60;BaseQ
18478	chrY	13290228	.	T	C	2833.30	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
18479	chrY	13290235	.	A	T	2794.44	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
18480	chrY	13290292	.	G	T	389.22	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18481	chrY	13290333	.	T	G	116.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18482	chrY	13290336	.	G	A	145.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18483	chrY	13290461	.	T	G	174.48	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
18484	chrY	13290490	.	G	A	867.73	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
18485	chrY	13290509	.	T	C	2727.68	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
18486	chrY	13290517	.	A	G	597.05	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18487	chrY	13290577	.	A	G	94.06	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
18488	chrY	13290578	.	G	T	94.40	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
18489	chrY	13290616	.	T	A	1539.54	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
18490	chrY	13290621	.	A	G	523.87	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
18491	chrY	13290630	.	A	C	1708	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
18492	chrY	13290645	.	G	T	1676.98	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
18493	chrY	13290680	.	A	G	406.64	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
18494	chrY	13290689	.	T	C	366.96	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
18495	chrY	13290692	.	G	C	3269.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18496	chrY	13290707	.	G	A	3139.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
18497	chrY	13290736	.	T	G	484.21	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
18498	chrY	13290759	.	G	C	2602.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18499	chrY	13290769	.	G	C	102.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
18500	chrY	13290772	.	G	A	687.88	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
18501	chrY	13290803	.	G	C	525.10	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
18502	chrY	13290887	.	C	A	1180.45	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
18503	chrY	13290888	.	G	A	1180.45	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
18504	chrY	13290890	.	G	A	1158.11	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
18505	chrY	13290894	.	A	G	2010.77	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
18506	chrY	13290896	.	T	C	1138.64	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
18507	chrY	13290912	.	T	A	661.02	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
18508	chrY	13290933	.	C	T	328.35	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
18509	chrY	13290949	.	G	A	173.31	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
18510	chrY	13290954	.	A	G	525.35	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
18511	chrY	13290955	.	A	G	283.17	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
18512	chrY	13290978	.	C	A	156.19	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
18513	chrY	13290979	.	A	G	155.81	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
18514	chrY	13290984	.	A	G	154.38	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
18515	chrY	13291023	.	C	T	360.71	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
18516	chrY	13291052	.	C	T	702.58	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
18517	chrY	13291077	.	T	C	1637	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
18518	chrY	13291082	.	G	A	82.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18519	chrY	13291125	.	C	T	84.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18520	chrY	13291136	.	T	C	690.47	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
18521	chrY	13291164	.	T	C	1113.38	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
18522	chrY	13291290	.	G	T	6180.82	PASS	AC=48;AF=0.727;AN=66;DP=336;FS=0
18523	chrY	13291351	.	C	A	40.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18524	chrY	13291559	.	A	G	469.91	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18525	chrY	13291567	.	T	C	604.64	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18526	chrY	13291573	.	C	T	85.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18527	chrY	13291596	.	A	G	170.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18528	chrY	13291624	.	A	G	708.41	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18529	chrY	13291640	.	C	T	896.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18530	chrY	13291654	.	C	T,G	877.51	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
18531	chrY	13291728	.	C	T	38.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18532	chrY	13291741	.	T	C	200.40	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18533	chrY	13291789	.	A	C	71.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18534	chrY	13291824	.	T	C	162.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18535	chrY	13291839	.	A	G	117.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18536	chrY	13291851	.	C	A	242.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18537	chrY	13291899	.	C	T	69.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18538	chrY	13291905	.	C	T	10354.91	PASS	AC=31;AF=0.443;AN=70;BaseQ
18539	chrY	13291910	.	T	C	7893.73	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
18540	chrY	13291923	.	G	A	655.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18541	chrY	13291928	.	C	A	646.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18542	chrY	13291948	.	T	A	5474.68	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
18543	chrY	13291965	.	G	T	948.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18544	chrY	13291979	.	C	T	1015.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

18545	chrY	13292051	.	C	A	9705.02	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
18546	chrY	13292058	.	T	C,*	7962.69	PASS	AC=23,1;AF=0.329,0.014;AN=70;BaseQ
18547	chrY	13292090	.	C	A	251.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18548	chrY	13292120	.	G	A	12566.40	PASS	AC=34;AF=0.486;AN=70;BaseQ
18549	chrY	13292158	.	C	T,*	4180.95	PASS	AC=19,12;AF=0.271,0.171;AN=70;Bas
18550	chrY	13292165	.	A	G	8178.01	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
18551	chrY	13292238	.	C	T	36.29	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
18552	chrY	13292240	.	G	A	45.73	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
18553	chrY	13292264	.	G	T	168.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18554	chrY	13292265	.	G	C	2478.94	PASS	AC=22;AF=0.393;AN=56;BaseQRankSum=
18555	chrY	13292275	.	C	T	152.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18556	chrY	13292302	.	C	G	212.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18557	chrY	13292322	.	T	A	206.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18558	chrY	13292328	.	T	C	150.78	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18559	chrY	13292335	.	G	A	51.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18560	chrY	13292340	.	G	T	20129.39	PASS	AC=34;AF=0.500;AN=68;BaseQ
18561	chrY	13292346	.	C	T	3632.69	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
18562	chrY	13292382	.	C	A	368.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18563	chrY	13292433	.	T	C	114.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18564	chrY	13292469	.	T	G	17775.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
18565	chrY	13292569	.	A	G	2436.61	my_snp_filter	AC=18;AF=0.290;AN=62;BaseQ
18566	chrY	13292580	.	G	A	51.68	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
18567	chrY	13292600	.	C	T	1464.18	my_snp_filter	AC=13;AF=0.271;AN=48;BaseQ
18568	chrY	13292617	.	A	C	199.78	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
18569	chrY	13292640	.	G	A	491.22	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
18570	chrY	13292656	.	T	C	1160.12	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
18571	chrY	13292685	.	C	A	1803.24	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
18572	chrY	13292702	.	C	T	1786.84	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
18573	chrY	13292712	.	G	A	1846.75	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
18574	chrY	13292727	.	C	T	738.73	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
18575	chrY	13292752	.	G	T	391.71	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
18576	chrY	13292847	.	C	T	4428.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
18577	chrY	13292895	.	C	T	207.19	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
18578	chrY	13292900	.	G	C	198.06	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
18579	chrY	13292909	.	G	A	209.63	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
18580	chrY	13292933	.	G	T	837.93	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
18581	chrY	13292953	.	G	A	36.84	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
18582	chrY	13292966	.	T	A	439.57	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
18583	chrY	13292996	.	C	G	53.48	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
18584	chrY	13293053	.	G	A	4985.46	PASS	AC=12;AF=0.375;AN=32;BaseQRankSum=
18585	chrY	13293086	.	T	G	1992.66	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
18586	chrY	13293104	.	G	C	1619.45	PASS	AC=12;AF=0.462;AN=26;BaseQRankSum=
18587	chrY	13293139	.	T	C	4249.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18588	chrY	13293176	.	C	A	4459.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
18589	chrY	13293243	.	A	G	13406.97	PASS	AC=29;AF=0.580;AN=50;BaseQ
18590	chrY	13293265	.	C	T	11802.90	PASS	AC=30;AF=0.484;AN=62;BaseQ
18591	chrY	13293266	.	G	C	4539.36	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
18592	chrY	13293275	.	G	C	601.98	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
18593	chrY	13293289	.	T	C	353.72	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18594	chrY	13293360	.	T	G	100.61	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18595	chrY	13293363	.	C	A	128.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18596	chrY	13293386	.	C	A	99.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18597	chrY	13293471	.	A	G	90357.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
18598	chrY	13293473	.	G	A	3125.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18599	chrY	13293525	.	A	T	4397.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18600	chrY	13293529	.	T	A	4375.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18601	chrY	13293592	.	A	G	13556.04	PASS	AC=33;AF=0.485;AN=68;BaseQ
18602	chrY	13293637	.	G	A	160.38	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
18603	chrY	13293658	.	T	G	48.33	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
18604	chrY	13293666	.	T	A	1387.58	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
18605	chrY	13293687	.	C	T	65.17	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
18606	chrY	13293688	.	A	G	65.17	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
18607	chrY	13293707	.	C	T	1728.30	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
18608	chrY	13293746	.	G	C	1774.36	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
18609	chrY	13293815	.	C	T	1424.92	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
18610	chrY	13293833	.	A	G	2332.16	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
18611	chrY	13293886	.	A	T	3663.68	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
18612	chrY	13294023	.	C	A	3695.76	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
18613	chrY	13294025	.	T	C	18781.14	PASS	AC=25;AF=0.543;AN=46;BaseQ
18614	chrY	13294106	.	T	C	7369.70	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
18615	chrY	13294119	.	T	C	6514.86	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
18616	chrY	13294189	.	T	C,*	2633.80	PASS	AC=7,3;AF=0.106,0.045;AN=66;BaseQ
18617	chrY	13294204	.	C	T	35.52	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18618	chrY	13294211	.	C	T	987.77	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
18619	chrY	13294228	.	C	T	39.73	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18620	chrY	13294271	.	A	G	38.57	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=

18621	chrY	13294290	.	T	C	7478.62	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=
18622	chrY	13294304	.	G	A	174.93	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18623	chrY	13294311	.	T	A	378.76	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18624	chrY	13294354	.	G	T	2875.01	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
18625	chrY	13294388	.	G	T	16399.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
18626	chrY	13294389	.	C	T	583.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18627	chrY	13294485	.	C	T	20442.89	PASS	AC=26;AF=0.419;AN=62;BaseQ
18628	chrY	13294486	.	A	G	2701.62	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
18629	chrY	13294497	.	T	A	22436.18	PASS	AC=26;AF=0.500;AN=52;BaseQ
18630	chrY	13294565	.	A	C	103.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18631	chrY	13294572	.	G	T	80.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18632	chrY	13294597	.	G	T	201.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18633	chrY	13294651	.	C	T	4201.38	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
18634	chrY	13294668	.	T	G	3525.64	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18635	chrY	13294675	.	G	A	3679.63	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQ
18636	chrY	13294692	.	G	T	1258.08	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ
18637	chrY	13294719	.	C	T	57.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18638	chrY	13294739	.	G	A	119.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18639	chrY	13294747	.	G	T	3863.32	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
18640	chrY	13294757	.	A	T	3666.52	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
18641	chrY	13294770	.	G	T	44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18642	chrY	13294780	.	C	T	55.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18643	chrY	13294822	.	T	G	2222.64	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
18644	chrY	13294960	.	T	C	291.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18645	chrY	13294961	.	G	A	62.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18646	chrY	13294965	.	A	G	266.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18647	chrY	13295024	.	T	C	813.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18648	chrY	13295056	.	T	C	301.15	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18649	chrY	13295284	.	G	A	231.31	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18650	chrY	13295325	.	C	T	139.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18651	chrY	13295438	.	G	A	899.85	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
18652	chrY	13295451	.	C	T	329.29	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
18653	chrY	13295467	.	G	C	394.55	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18654	chrY	13295471	.	T	C	360.53	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
18655	chrY	13295642	.	T	G	158.59	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
18656	chrY	13295768	.	T	G	760.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18657	chrY	13295813	.	G	T	992.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
18658	chrY	13295858	.	C	T	1310.81	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
18659	chrY	13295860	.	C	T	581.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18660	chrY	13295870	.	G	C	6226.60	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
18661	chrY	13295933	.	T	A	4462.47	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQ
18662	chrY	13295949	.	T	A	3794.41	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
18663	chrY	13295995	.	G	A	727.24	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
18664	chrY	13296370	.	C	G	52.37	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
18665	chrY	13296390	.	A	G	138.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18666	chrY	13296447	.	A	C	127.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18667	chrY	13296452	.	C	A	134.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18668	chrY	13296600	.	G	T	1158.94	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
18669	chrY	13296628	.	G	A	680.79	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
18670	chrY	13296715	.	A	G	404.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18671	chrY	13296793	.	T	C	3718.98	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQ
18672	chrY	13296797	.	C	A	81.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18673	chrY	13296814	.	T	C	32.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18674	chrY	13296851	.	C	T	5097.52	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
18675	chrY	13296871	.	T	G	2787.58	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
18676	chrY	13296890	.	G	A	19356.40	PASS	AC=29;AF=0.453;AN=64;BaseQ
18677	chrY	13296891	.	C	T	76.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18678	chrY	13296908	.	G	A	102.18	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18679	chrY	13296909	.	C	T	8309.29	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
18680	chrY	13296979	.	G	T	12733.12	PASS	AC=29;AF=0.453;AN=64;BaseQ
18681	chrY	13297028	.	G	C	5779.21	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
18682	chrY	13297066	.	T	G	9372.57	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
18683	chrY	13297111	.	G	C	156.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18684	chrY	13297132	.	C	T	14692.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
18685	chrY	13297182	.	A	G	19082.34	PASS	AC=34;AF=0.486;AN=70;BaseQ
18686	chrY	13297284	.	G	T	68.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18687	chrY	13297367	.	A	G	842.33	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
18688	chrY	13297382	.	A	G	830.27	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
18689	chrY	13297403	.	T	A	392.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18690	chrY	13297468	.	A	T	670.65	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18691	chrY	13297541	.	C	T	1949.03	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
18692	chrY	13297598	.	A	G	3406.11	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
18693	chrY	13297622	.	G	A	5694.94	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
18694	chrY	13297657	.	T	C	9811.56	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
18695	chrY	13297747	.	C	T	12609.62	PASS	AC=25;AF=0.357;AN=70;BaseQ
18696	chrY	13297772	.	C	A	11095.50	PASS	AC=24;AF=0.343;AN=70;BaseQ

18697	chrY	13297817	.	C	A	9336.85	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
18698	chrY	13297840	.	A	T	36.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18699	chrY	13297841	.	A	T	36.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18700	chrY	13297852	.	A	C	986.50	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18701	chrY	13297889	.	G	C	118.20	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18702	chrY	13297909	.	T	G	7058.58	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
18703	chrY	13297914	.	A	C	233.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18704	chrY	13297969	.	T	C	3867.72	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
18705	chrY	13297997	.	A	C	3293.28	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18706	chrY	13298068	.	C	T	149.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18707	chrY	13298073	.	T	A	3629.83	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
18708	chrY	13298087	.	G	A	118.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18709	chrY	13298108	.	C	T	5249.88	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
18710	chrY	13298125	.	G	T	4349.18	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18711	chrY	13298174	.	C	T	8043.73	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
18712	chrY	13298272	.	G	A	3818.86	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18713	chrY	13298286	.	T	C	1625.95	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
18714	chrY	13298297	.	C	T	649.32	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
18715	chrY	13298306	.	G	A	1517.18	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18716	chrY	13298340	.	G	A	276.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18717	chrY	13298423	.	A	C	4781.37	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18718	chrY	13298427	.	G	A	2912.14	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18719	chrY	13298430	.	A	G	1478.33	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18720	chrY	13298442	.	A	T	1630.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18721	chrY	13298444	.	T	C	5580.17	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18722	chrY	13298471	.	A	T	2572.88	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18723	chrY	13298491	.	G	T	2947.12	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18724	chrY	13298513	.	C	A	3041.73	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18725	chrY	13298521	.	C	T	3109.39	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18726	chrY	13298541	.	T	A	2840.58	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
18727	chrY	13298592	.	C	T	159.78	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18728	chrY	13298598	.	T	C	89.48	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18729	chrY	13298607	.	T	C	2530.67	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18730	chrY	13298630	.	T	A	3634.39	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18731	chrY	13298635	.	T	C	3057.75	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18732	chrY	13298698	.	C	T	1134.49	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18733	chrY	13298701	.	G	C	2077.71	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18734	chrY	13298711	.	C	T	1121.61	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18735	chrY	13298744	.	A	T	1061.56	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18736	chrY	13298756	.	G	A	837.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18737	chrY	13298772	.	C	G	324.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18738	chrY	13298781	.	A	G	155.35	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18739	chrY	13298876	.	C	T	32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
18740	chrY	13298892	.	C	T	40.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18741	chrY	13299069	.	G	A	1389.68	PASS	AC=6;AF=0.088;AN=68;DP=357;FS=0.0
18742	chrY	13299429	.	G	A	1855.15	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
18743	chrY	13299471	.	G	A	1113.77	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
18744	chrY	13299483	.	G	A	417.66	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
18745	chrY	13299490	.	C	T	96.76	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
18746	chrY	13299491	.	G	C	2372.16	PASS	AC=15;AF=0.313;AN=48;BaseQRankSum=
18747	chrY	13299492	.	C	T	1112.85	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
18748	chrY	13299500	.	T	C	487.83	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
18749	chrY	13299543	.	G	A	338.62	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
18750	chrY	13299638	.	T	A	169.98	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
18751	chrY	13299707	.	T	C	253.10	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
18752	chrY	13299800	.	C	A	1269.44	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
18753	chrY	13299865	.	C	T	5756.34	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18754	chrY	13299867	.	G	A	5755.83	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18755	chrY	13299901	.	T	C	3922.10	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18756	chrY	13299909	.	T	G	3918.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18757	chrY	13299934	.	G	A	130.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18758	chrY	13299939	.	A	G	4000.30	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18759	chrY	13299940	.	G	T	4000.58	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18760	chrY	13299976	.	A	C,G	2204.06	PASS	AC=10,2;AF=0.147,0.029;AN=68;Base
18761	chrY	13300027	.	G	A	13475.40	PASS	AC=24;AF=0.343;AN=70;Base
18762	chrY	13300034	.	G	A	14056.48	PASS	AC=24;AF=0.343;AN=70;Base
18763	chrY	13300045	.	A	G	136.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18764	chrY	13300100	.	G	A	12792.15	PASS	AC=26;AF=0.371;AN=70;Base
18765	chrY	13300109	.	C	G	101.87	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18766	chrY	13300210	.	G	A	7388.80	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
18767	chrY	13300253	.	C	T	4577.08	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
18768	chrY	13300312	.	A	G	3469.82	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
18769	chrY	13300382	.	T	G	103.22	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18770	chrY	13300420	.	G	A	259.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18771	chrY	13300490	.	G	A	1783.24	my_snp_filter	AC=19;AF=0.271;AN=70;Base
18772	chrY	13300511	.	C	T	158.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

18773	chrY	13300628	.	A	G	171.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18774	chrY	13300629	.	A	G	999.25	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18775	chrY	13300668	.	A	C	2762.94	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQ
18776	chrY	13300689	.	G	C	3428.10	my_snp_filter	AC=15;AF=0.341;AN=44;BaseQ
18777	chrY	13300749	.	C	G	54.02	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
18778	chrY	13300762	.	G	C	48.27	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18779	chrY	13300771	.	T	G	50.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18780	chrY	13301149	.	G	A	1000.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18781	chrY	13301159	.	T	G	4775.87	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
18782	chrY	13301165	.	G	A	4041.33	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
18783	chrY	13301185	.	A	T	5327.91	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18784	chrY	13301196	.	T	C	303.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18785	chrY	13301231	.	T	C	7850.64	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18786	chrY	13301233	.	A	G	7858.88	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18787	chrY	13301252	.	G	C	6605.06	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18788	chrY	13301284	.	C	T	5986.06	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18789	chrY	13301285	.	A	G	6049.83	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
18790	chrY	13301351	.	A	T	4149.80	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
18791	chrY	13301358	.	C	T	108.65	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
18792	chrY	13301361	.	G	T	4697.94	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
18793	chrY	13301369	.	T	C	4480.05	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
18794	chrY	13301430	.	T	C	3532.88	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
18795	chrY	13301528	.	G	A	3366.84	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
18796	chrY	13301535	.	T	G	142.53	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
18797	chrY	13301586	.	T	C	2949.24	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
18798	chrY	13301630	.	G	A	358.71	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
18799	chrY	13301674	.	C	A	1436.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18800	chrY	13301691	.	C	T	1983.36	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
18801	chrY	13301700	.	T	C	2025.95	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
18802	chrY	13301704	.	C	T	26941.55	PASS	AC=27;AF=0.386;AN=70;BaseQ
18803	chrY	13301705	.	A	G	28455.55	PASS	AC=27;AF=0.386;AN=70;BaseQ
18804	chrY	13301737	.	T	C	54.02	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
18805	chrY	13301772	.	A	G	10993.09	PASS	AC=24;AF=0.343;AN=70;BaseQ
18806	chrY	13301792	.	T	C	457.23	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
18807	chrY	13301811	.	A	G	230.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18808	chrY	13301813	.	T	G	5116.80	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
18809	chrY	13301847	.	T	C	5349.94	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
18810	chrY	13301857	.	G	C	58.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18811	chrY	13301873	.	T	C	33.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18812	chrY	13301953	.	A	G	1796.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
18813	chrY	13301986	.	A	T	573.33	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18814	chrY	13302072	.	C	T	2025.42	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
18815	chrY	13302139	.	A	C	1603.41	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
18816	chrY	13302175	.	A	C	2681.73	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
18817	chrY	13302271	.	G	A	2905.96	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
18818	chrY	13302314	.	G	A	194.67	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
18819	chrY	13302316	.	A	G	3933.71	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
18820	chrY	13302366	.	C	T	268.96	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
18821	chrY	13302441	.	G	A	220.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
18822	chrY	13302444	.	G	C	7656.52	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
18823	chrY	13302479	.	C	T	6729.18	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
18824	chrY	13302532	.	A	G	11088.09	PASS	AC=30;AF=0.429;AN=70;BaseQ
18825	chrY	13302551	.	A	C	16367.45	PASS	AC=29;AF=0.414;AN=70;BaseQ
18826	chrY	13302554	.	G	A	16409.46	PASS	AC=29;AF=0.414;AN=70;BaseQ
18827	chrY	13302634	.	G	A	301.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18828	chrY	13302657	.	A	C	448.71	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
18829	chrY	13302687	.	A	G	14408.24	PASS	AC=38;AF=0.543;AN=70;BaseQ
18830	chrY	13302779	.	G	A	9846.75	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
18831	chrY	13302791	.	A	G	672.57	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18832	chrY	13302826	.	G	A	777.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18833	chrY	13302856	.	T	C	56.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18834	chrY	13302919	.	C	G	15762.53	PASS	AC=37;AF=0.529;AN=70;BaseQ
18835	chrY	13302939	.	A	T	525.06	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18836	chrY	13302984	.	T	C	3882.67	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
18837	chrY	13303074	.	A	G	59.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18838	chrY	13303086	.	A	G	919.41	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
18839	chrY	13303107	.	G	C	1152.15	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
18840	chrY	13303126	.	A	T	1213.73	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
18841	chrY	13303136	.	C	T	1295.37	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
18842	chrY	13303186	.	G	A	285.66	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
18843	chrY	13303227	.	T	C	89.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18844	chrY	13303253	.	A	G	336.15	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
18845	chrY	13303306	.	G	C	49.94	PASS	AC=2;AF=0.043;AN=46;DP=171;FS=0.0
18846	chrY	13303307	.	G	A	49.94	PASS	AC=2;AF=0.043;AN=46;DP=173;FS=0.0
18847	chrY	13303576	.	G	A	521.83	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
18848	chrY	13303600	.	G	A	92.88	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ

18849	chrY	13303693	.	A	G	139.33	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
18850	chrY	13303700	.	T	C	997.68	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18851	chrY	13303773	.	C	T	399.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18852	chrY	13303776	.	A	G	392.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18853	chrY	13303824	.	G	A	68.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
18854	chrY	13303890	.	T	A	80.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18855	chrY	13303894	.	T	G	394.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18856	chrY	13304004	.	G	A	940.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18857	chrY	13304028	.	A	G	799.62	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18858	chrY	13304052	.	A	C	618.47	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
18859	chrY	13304066	.	T	C	423.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18860	chrY	13304100	.	T	C	805.93	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
18861	chrY	13304168	.	A	C	976.60	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
18862	chrY	13304210	.	A	T	30.96	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
18863	chrY	13304394	.	T	C	269.37	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
18864	chrY	13304489	.	T	C	232.44	PASS	AC=10;AF=1.00;AN=10;DP=108;FS=0.0
18865	chrY	13304679	.	T	A	2776.25	my_snp_filter	AC=13;AF=0.191;AN=68;Base
18866	chrY	13304700	.	G	A	84.08	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
18867	chrY	13304793	.	C	A	9857.15	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
18868	chrY	13304853	.	G	A	3340.06	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
18869	chrY	13304873	.	C	T	286.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18870	chrY	13304893	.	G	A	343.54	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
18871	chrY	13304943	.	C	T	18357.56	PASS	AC=34;AF=0.486;AN=70;Base
18872	chrY	13304982	.	T	A	6563.79	my_snp_filter	AC=29;AF=0.414;AN=70;Base
18873	chrY	13304993	.	G	T	69.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18874	chrY	13305014	.	T	C	1050.06	my_snp_filter	AC=11;AF=0.162;AN=68;Base
18875	chrY	13305017	.	C	T	1014.49	my_snp_filter	AC=11;AF=0.167;AN=66;Base
18876	chrY	13305033	.	C	A	92.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18877	chrY	13305052	.	G	A	161.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18878	chrY	13305060	.	C	G	236.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18879	chrY	13305124	.	A	T	177	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18880	chrY	13305145	.	C	A	103.47	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
18881	chrY	13305685	.	G	A	151.79	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
18882	chrY	13306011	.	G	C	714.60	my_snp_filter	AC=12;AF=0.188;AN=64;Base
18883	chrY	13306139	.	T	C	258.30	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
18884	chrY	13306144	.	G	T	206.87	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
18885	chrY	13306156	.	T	G	89.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18886	chrY	13306191	.	C	T	1123.34	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
18887	chrY	13306192	.	G	T	1202.11	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
18888	chrY	13306194	.	T	C	1261.08	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
18889	chrY	13306195	.	G	A	1340.26	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
18890	chrY	13306201	.	G	C	1494.20	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
18891	chrY	13306247	.	C	T	4367.60	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
18892	chrY	13306252	.	G	T	153.82	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18893	chrY	13306256	.	G	A	1202.26	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
18894	chrY	13306266	.	G	A	423.82	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18895	chrY	13306286	.	C	G,T	8038.69	PASS	AC=32,2;AF=0.500,0.031;AN=64;Base
18896	chrY	13306292	.	C	T	7884.96	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
18897	chrY	13306346	.	T	G	2612.70	my_snp_filter	AC=20;AF=0.303;AN=66;Base
18898	chrY	13306386	.	A	G	159.87	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
18899	chrY	13306462	.	G	A	1820.54	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
18900	chrY	13306465	.	C	T	2705.91	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
18901	chrY	13306490	.	A	G	4314.46	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
18902	chrY	13306514	.	T	C	4715.08	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
18903	chrY	13306533	.	C	A	5221.90	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
18904	chrY	13306540	.	T	C	181.57	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
18905	chrY	13306541	.	G	A	181.70	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
18906	chrY	13306648	.	G	C	6072.45	my_snp_filter	AC=28;AF=0.424;AN=66;Base
18907	chrY	13306660	.	G	A	392.51	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
18908	chrY	13306702	.	C	T	3209.92	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
18909	chrY	13306703	.	G	T	12651.49	PASS	AC=35;AF=0.515;AN=68;Base
18910	chrY	13306754	.	C	T	18935.48	PASS	AC=33;AF=0.485;AN=68;Base
18911	chrY	13306805	.	A	C	26739.33	PASS	AC=35;AF=0.500;AN=70;Base
18912	chrY	13306980	.	A	C	451.03	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
18913	chrY	13306982	.	G	T	521.87	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
18914	chrY	13307007	.	T	C	641.89	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
18915	chrY	13307059	.	C	G	4665.90	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
18916	chrY	13307063	.	C	A	417.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18917	chrY	13307141	.	G	A	728.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18918	chrY	13307185	.	T	G	1438.74	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18919	chrY	13307210	.	G	A	1163.64	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
18920	chrY	13307222	.	T	G	3212.93	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
18921	chrY	13307247	.	T	C	1899.91	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
18922	chrY	13307286	.	C	T	96.32	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
18923	chrY	13307318	.	C	A	5326.99	my_snp_filter	AC=18;AF=0.290;AN=62;Base
18924	chrY	13307320	.	G	A	4407.93	my_snp_filter	AC=15;AF=0.250;AN=60;Base

18925	chrY	13307343	.	C	T	371.28	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18926	chrY	13307344	.	G	A	370.59	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
18927	chrY	13307348	.	C	G	6933.85	PASS	AC=30;AF=0.469;AN=64;BaseQRankSum=
18928	chrY	13307361	.	G	A	439.63	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18929	chrY	13307372	.	C	T	443.78	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18930	chrY	13307425	.	G	T	12486.97	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=
18931	chrY	13307481	.	A	G	343.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18932	chrY	13307492	.	A	G	918.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
18933	chrY	13307562	.	G	A	14094.95	PASS	AC=32;AF=0.500;AN=64;BaseQRankSum=
18934	chrY	13307669	.	C	T	367.09	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQRankSum=
18935	chrY	13307685	.	A	C	9023.04	PASS	AC=27;AF=0.466;AN=58;BaseQRankSum=
18936	chrY	13307700	.	C	T	6267.86	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=
18937	chrY	13307731	.	T	C	3682.72	my_snp_filter	AC=21;AF=0.318;AN=66;BaseQRankSum=
18938	chrY	13307749	.	C	G	2665.53	my_snp_filter	AC=17;AF=0.274;AN=62;BaseQRankSum=
18939	chrY	13307764	.	T	C	2762.99	my_snp_filter	AC=17;AF=0.274;AN=62;BaseQRankSum=
18940	chrY	13307818	.	T	G	49.28	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
18941	chrY	13307822	.	A	G	2126.37	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQRankSum=
18942	chrY	13307849	.	A	G	2250.41	my_snp_filter	AC=14;AF=0.226;AN=62;BaseQRankSum=
18943	chrY	13307886	.	G	A	51.18	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
18944	chrY	13307916	.	C	T	8027.79	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
18945	chrY	13307923	.	T	C	1380.74	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
18946	chrY	13307956	.	T	C	3622.86	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
18947	chrY	13307982	.	A	G	50.95	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
18948	chrY	13308009	.	T	C	2934.11	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
18949	chrY	13308010	.	G	A	2903.72	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
18950	chrY	13308034	.	C	T	954.70	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
18951	chrY	13308277	.	A	C	1825.95	my_snp_filter	AC=13;AF=0.191;AN=68;BaseQRankSum=
18952	chrY	13308282	.	C	T	2033.22	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
18953	chrY	13308365	.	G	T	9461.25	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
18954	chrY	13308382	.	C	A	10606.31	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
18955	chrY	13308449	.	T	C	10947.72	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
18956	chrY	13308567	.	C	T	6299.64	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
18957	chrY	13308570	.	G	A	6365.62	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
18958	chrY	13308595	.	G	A	362.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18959	chrY	13308626	.	A	C	157.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
18960	chrY	13308641	.	A	C	3742.58	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=
18961	chrY	13308661	.	C	G	105.26	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
18962	chrY	13308703	.	C	T	2420.57	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQRankSum=
18963	chrY	13308710	.	G	T	2539.21	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
18964	chrY	13308716	.	G	T	2392.32	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
18965	chrY	13308717	.	C	T	2340.31	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
18966	chrY	13308779	.	G	A	926.10	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
18967	chrY	13308813	.	T	C	188.62	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
18968	chrY	13309070	.	T	C	480.34	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
18969	chrY	13309130	.	T	C	290.14	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
18970	chrY	13309152	.	A	G	94.14	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
18971	chrY	13309174	.	A	T	5383.73	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
18972	chrY	13309226	.	A	C	6659.20	PASS	AC=29;AF=0.453;AN=64;BaseQRankSum=
18973	chrY	13309239	.	G	C	6584.24	PASS	AC=30;AF=0.469;AN=64;BaseQRankSum=
18974	chrY	13309255	.	C	G	82.12	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
18975	chrY	13309262	.	T	C	7458.31	PASS	AC=29;AF=0.453;AN=64;BaseQRankSum=
18976	chrY	13309306	.	G	A	815.17	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18977	chrY	13309310	.	G	A	81.59	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
18978	chrY	13309340	.	A	G	510.94	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
18979	chrY	13309348	.	C	T	5657.42	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
18980	chrY	13309371	.	C	T	4096.52	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
18981	chrY	13309398	.	C	T	1475.76	my_snp_filter	AC=13;AF=0.203;AN=64;BaseQRankSum=
18982	chrY	13309506	.	T	C	97.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
18983	chrY	13309574	.	T	C	233.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
18984	chrY	13309588	.	A	C	257.74	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
18985	chrY	13309602	.	G	T	284.49	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
18986	chrY	13309629	.	C	T	317.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
18987	chrY	13309667	.	T	C	622.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18988	chrY	13309668	.	G	A	621.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18989	chrY	13309681	.	C	T	380.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18990	chrY	13309932	.	G	A	188.05	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
18991	chrY	13309936	.	G	T	185.80	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
18992	chrY	13309958	.	C	T	203.57	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
18993	chrY	13309982	.	G	A	135.29	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
18994	chrY	13310000	.	C	T	192.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
18995	chrY	13310004	.	C	A	201.68	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
18996	chrY	13310078	.	G	A	145.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
18997	chrY	13310114	.	T	C	216.50	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
18998	chrY	13310145	.	T	C	118.63	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQRankSum=
18999	chrY	13310161	.	G	A	856.59	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
19000	chrY	13310289	.	C	T	980.63	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=

19001	chrY	13310293	.	T	C	923.55	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19002	chrY	13310301	.	T	C	870.13	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19003	chrY	13310311	.	G	C	670.90	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19004	chrY	13310353	.	G	A	1949.34	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19005	chrY	13310359	.	C	A	1937.34	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19006	chrY	13310409	.	C	T	1279.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19007	chrY	13310418	.	G	A	1257.96	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19008	chrY	13310444	.	T	C	673.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19009	chrY	13310449	.	A	C	653.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19010	chrY	13310462	.	T	C	588.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19011	chrY	13310495	.	T	C	309.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19012	chrY	13310500	.	G	A	314.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19013	chrY	13310502	.	A	G	287.45	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19014	chrY	13310507	.	G	A	282.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19015	chrY	13310525	.	A	G	1396.97	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19016	chrY	13310531	.	C	A	1564.76	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19017	chrY	13310532	.	C	G	1570.78	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19018	chrY	13310559	.	T	C	2749.33	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
19019	chrY	13310567	.	T	C	2867.59	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
19020	chrY	13310578	.	C	T	4167.84	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
19021	chrY	13310581	.	G	C	4175.08	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
19022	chrY	13310582	.	G	A	4179.65	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
19023	chrY	13310602	.	G	A	5342.25	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19024	chrY	13310606	.	T	C	5447.27	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19025	chrY	13310607	.	G	A	5464.69	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19026	chrY	13310610	.	A	C	5429.34	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19027	chrY	13310621	.	C	A	5806.70	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19028	chrY	13310622	.	C	A	5808.69	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
19029	chrY	13310679	.	A	G	4701.57	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
19030	chrY	13310683	.	T	C	4802.26	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
19031	chrY	13310719	.	G	A	4185.15	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQ
19032	chrY	13310721	.	C	A	4189.36	my_snp_filter	AC=16;AF=0.250;AN=64;BaseQ
19033	chrY	13310740	.	G	A	3593.63	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
19034	chrY	13310768	.	G	C	10092.70	PASS	AC=25;AF=0.379;AN=66;BaseQ
19035	chrY	13310775	.	A	G	10562.57	PASS	AC=25;AF=0.368;AN=68;BaseQ
19036	chrY	13310784	.	T	G	11146.92	PASS	AC=25;AF=0.368;AN=68;BaseQ
19037	chrY	13310870	.	G	A	1111.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19038	chrY	13310913	.	G	T	11181.29	PASS	AC=23;AF=0.348;AN=66;BaseQ
19039	chrY	13310915	.	C	A	11181.31	PASS	AC=23;AF=0.348;AN=66;BaseQ
19040	chrY	13311038	.	T	C	1125.40	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
19041	chrY	13311041	.	C	G	1122.63	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
19042	chrY	13311065	.	A	G	1092	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
19043	chrY	13311067	.	G	T	1137.97	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
19044	chrY	13311069	.	A	G	1134.92	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
19045	chrY	13311082	.	C	G	1171.09	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
19046	chrY	13311089	.	G	C	1164.78	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
19047	chrY	13311121	.	T	A	1373.06	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
19048	chrY	13311144	.	G	A	1311.27	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
19049	chrY	13311146	.	A	C	1314	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
19050	chrY	13311150	.	C	T	1272.17	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
19051	chrY	13311217	.	C	T	92.22	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
19052	chrY	13311223	.	T	A	9200.04	PASS	AC=64;AF=1.00;AN=64;DP=314;FS=0.0
19053	chrY	13311920	.	T	C	294.19	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
19054	chrY	13311941	.	T	C	290.50	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19055	chrY	13311991	.	G	C	1213.48	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
19056	chrY	13311998	.	G	C	1221.11	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
19057	chrY	13312020	.	A	C	710.33	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
19058	chrY	13312021	.	G	A	622.95	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
19059	chrY	13312066	.	A	T	79.69	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
19060	chrY	13312067	.	T	C	101.87	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
19061	chrY	13312072	.	T	A	129.49	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
19062	chrY	13312106	.	T	C	304.98	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
19063	chrY	13312124	.	T	C	651.68	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19064	chrY	13312128	.	C	T	651.29	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19065	chrY	13312157	.	A	C	656.39	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
19066	chrY	13312176	.	A	G	834.77	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
19067	chrY	13312196	.	C	T	2041.76	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19068	chrY	13312197	.	A	G	2041.70	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19069	chrY	13312198	.	C	T	2041.75	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19070	chrY	13312275	.	C	T	1761.50	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
19071	chrY	13312289	.	A	G	1706.67	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
19072	chrY	13312307	.	A	G	1669.80	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19073	chrY	13312347	.	A	G	1022.86	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19074	chrY	13312355	.	T	C	1046.36	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
19075	chrY	13312386	.	T	C	844.53	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
19076	chrY	13312401	.	A	G	1123.93	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=

19077	chrY	13312410	.	C	A	1517.40	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
19078	chrY	13312421	.	C	T	1925.11	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
19079	chrY	13312446	.	T	C	3593.06	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
19080	chrY	13312452	.	C	T	3585.65	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
19081	chrY	13312469	.	C	G	4038.98	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
19082	chrY	13312538	.	T	A	7711.38	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
19083	chrY	13312540	.	G	A	7751.29	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
19084	chrY	13312557	.	C	T	4566.56	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
19085	chrY	13312579	.	G	A	5742.73	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=
19086	chrY	13312583	.	A	C	5598.79	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
19087	chrY	13312622	.	A	G	1102.64	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
19088	chrY	13312633	.	C	T	63.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
19089	chrY	13312651	.	C	T	521.93	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19090	chrY	13312666	.	G	C	2039.60	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
19091	chrY	13312729	.	C	T	1922.93	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
19092	chrY	13312737	.	G	A	31.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
19093	chrY	13312756	.	A	G	10134.38	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
19094	chrY	13312789	.	A	G	767.75	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19095	chrY	13312809	.	G	A	2996.44	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19096	chrY	13312825	.	C	T	3774.86	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
19097	chrY	13312834	.	C	T	3579.44	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
19098	chrY	13312840	.	G	A	848.10	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19099	chrY	13312842	.	G	A	3115.17	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
19100	chrY	13312880	.	A	T	1679.80	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19101	chrY	13312887	.	G	T	173.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19102	chrY	13312899	.	A	G	2556.06	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19103	chrY	13312900	.	T	G	2557.39	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19104	chrY	13312927	.	C	T	305.41	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19105	chrY	13312960	.	C	T	4338.91	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
19106	chrY	13312971	.	G	T	5206.48	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
19107	chrY	13312987	.	T	C	7146.34	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19108	chrY	13312988	.	G	A	337.90	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
19109	chrY	13313000	.	G	T	576.85	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19110	chrY	13313049	.	G	T	10289.13	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
19111	chrY	13313060	.	G	A	17238.13	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
19112	chrY	13313069	.	C	T	17108.16	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
19113	chrY	13313142	.	T	C	207.19	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19114	chrY	13313165	.	C	A	3320.03	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQRankSum=
19115	chrY	13313174	.	A	G	2576.59	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
19116	chrY	13313177	.	T	C	2342.18	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
19117	chrY	13313201	.	T	A	408.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19118	chrY	13313210	.	A	G	694.42	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
19119	chrY	13313242	.	A	C	819.79	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19120	chrY	13313302	.	C	T	2788.63	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
19121	chrY	13313305	.	C	A	2929.11	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
19122	chrY	13313311	.	C	T	3048.74	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
19123	chrY	13313326	.	G	T	3215.58	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
19124	chrY	13313342	.	C	T	2991.02	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
19125	chrY	13313373	.	C	T	1680.12	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19126	chrY	13313423	.	C	G	979.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19127	chrY	13313428	.	A	G	991.19	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19128	chrY	13313429	.	C	G	968	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19129	chrY	13313430	.	A	G	960.50	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19130	chrY	13313441	.	T	G	895.09	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19131	chrY	13313457	.	G	A	676.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19132	chrY	13313460	.	A	G	629.91	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19133	chrY	13313464	.	C	A	658.16	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19134	chrY	13313472	.	C	A	577.51	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19135	chrY	13313501	.	A	G	809.04	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19136	chrY	13313513	.	G	A	207.15	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19137	chrY	13313553	.	G	A	1984.93	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
19138	chrY	13313565	.	C	A	2166.92	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
19139	chrY	13313575	.	T	C	2130.14	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
19140	chrY	13313604	.	T	C	1089.98	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
19141	chrY	13313652	.	T	C	1093.78	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19142	chrY	13313658	.	C	T	1079.49	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19143	chrY	13313695	.	A	T	860.18	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
19144	chrY	13313734	.	G	T	719.97	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19145	chrY	13313740	.	A	C	699.28	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19146	chrY	13313758	.	T	C	1349.65	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
19147	chrY	13313822	.	G	A	4653.43	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
19148	chrY	13313841	.	A	G	3849.07	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19149	chrY	13313855	.	C	T	4731.04	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
19150	chrY	13313861	.	T	C	4520.44	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
19151	chrY	13313863	.	T	C	4418.76	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
19152	chrY	13313905	.	G	A	1206.98	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=

19153	chrY	13313918	.	G	A	922.26	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19154	chrY	13313957	.	A	C	47.13	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
19155	chrY	13313991	.	T	G	95.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19156	chrY	13314006	.	G	T	159.88	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19157	chrY	13314016	.	C	G	108.46	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
19158	chrY	13314022	.	G	A	108.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19159	chrY	13314034	.	A	C	61.31	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19160	chrY	13314070	.	A	C	227.05	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19161	chrY	13314079	.	G	A	150.90	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19162	chrY	13314089	.	G	T	156.42	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19163	chrY	13314236	.	G	A	1177.68	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
19164	chrY	13314240	.	A	G	742.53	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
19165	chrY	13314245	.	C	T	719.75	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19166	chrY	13314246	.	A	G	724.16	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19167	chrY	13314252	.	G	A	727.98	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
19168	chrY	13314257	.	G	T	211.60	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19169	chrY	13314266	.	G	C	667.64	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
19170	chrY	13314271	.	T	C	2144.91	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
19171	chrY	13314281	.	T	G	762.86	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
19172	chrY	13314307	.	A	G	971.36	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
19173	chrY	13314313	.	A	G	986.25	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
19174	chrY	13314327	.	G	A	370.83	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
19175	chrY	13314328	.	T	C	370.82	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
19176	chrY	13314336	.	C	G	833.92	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
19177	chrY	13314363	.	A	G	58.27	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
19178	chrY	13314592	.	A	T	1409.43	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
19179	chrY	13314598	.	T	C	1506.29	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
19180	chrY	13314621	.	G	A	2179.17	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
19181	chrY	13314628	.	C	T	1066.97	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
19182	chrY	13314642	.	A	G	4006.41	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ
19183	chrY	13314646	.	C	T	806.31	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19184	chrY	13314647	.	G	A	4180.05	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQ
19185	chrY	13314682	.	C	T	7643.55	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
19186	chrY	13314689	.	C	T	7643.98	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
19187	chrY	13314693	.	G	A	7671.62	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
19188	chrY	13314735	.	G	T	5285.21	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
19189	chrY	13314738	.	A	G	5217.11	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
19190	chrY	13314806	.	C	T	2956.96	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
19191	chrY	13314825	.	T	A	3512.16	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19192	chrY	13314829	.	G	C	3748.94	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
19193	chrY	13314842	.	T	C	4720.60	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
19194	chrY	13314865	.	A	C,G	6207.20	PASS	AC=17,3;AF=0.250,0.044;AN=68;BaseQ
19195	chrY	13314928	.	G	A	147.77	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19196	chrY	13314944	.	G	A	10414.46	PASS	AC=27;AF=0.397;AN=68;BaseQ
19197	chrY	13314946	.	G	A	79.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19198	chrY	13314976	.	C	A	3577.50	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
19199	chrY	13315000	.	C	T	6600.23	my_snp_filter	AC=19;AF=0.279;AN=68;BaseQ
19200	chrY	13315001	.	A	G	6595.23	my_snp_filter	AC=19;AF=0.279;AN=68;BaseQ
19201	chrY	13315006	.	G	A	6306.19	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
19202	chrY	13315022	.	G	A	218.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19203	chrY	13315083	.	A	G	1449.41	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
19204	chrY	13315125	.	T	C	6693.32	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
19205	chrY	13315127	.	C	T	70.85	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
19206	chrY	13315132	.	G	A	2763.35	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
19207	chrY	13315181	.	G	A	196.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19208	chrY	13315241	.	C	T	2882.22	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19209	chrY	13315264	.	A	G	4016.90	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
19210	chrY	13315287	.	G	C	273.34	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19211	chrY	13315301	.	C	T	336.28	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19212	chrY	13315320	.	C	T	307.18	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
19213	chrY	13315369	.	G	A	68.10	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19214	chrY	13315396	.	A	G	181.99	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
19215	chrY	13315490	.	T	C	66.17	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
19216	chrY	13316252	.	T	A	6323.16	PASS	AC=44;AF=0.786;AN=56;DP=323;FS=0.
19217	chrY	13316381	.	T	C	208.36	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
19218	chrY	13316423	.	C	T	598.36	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
19219	chrY	13316467	.	C	T	540.64	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
19220	chrY	13316750	.	A	C	517.60	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
19221	chrY	13316767	.	C	A	842.01	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
19222	chrY	13316928	.	A	G	1123.76	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
19223	chrY	13316932	.	A	T	1042.09	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
19224	chrY	13317135	.	C	A	6979.98	my_snp_filter	AC=30;AF=0.441;AN=68;BaseQ
19225	chrY	13317176	.	A	C	2245.97	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
19226	chrY	13317200	.	C	G	900.71	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
19227	chrY	13317207	.	A	G	686.30	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
19228	chrY	13317375	.	A	T	495.81	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=

19229	chrY	13317488	.	T	A	384.52	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
19230	chrY	13317529	.	A	G	106.16	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
19231	chrY	13317833	.	G	A	2645.22	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19232	chrY	13318166	.	T	C	368.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19233	chrY	13318186	.	C	T	858.44	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
19234	chrY	13318213	.	T	A	816.49	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
19235	chrY	13318238	.	G	T	970.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
19236	chrY	13318253	.	A	G	922.75	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
19237	chrY	13318264	.	A	C	874.69	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
19238	chrY	13318348	.	C	T	86.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19239	chrY	13318373	.	T	C	321.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19240	chrY	13318432	.	A	G	1941.73	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
19241	chrY	13318442	.	G	A	1925.50	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
19242	chrY	13318500	.	T	C	810.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19243	chrY	13318501	.	C	T	811.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19244	chrY	13318768	.	C	T	77.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19245	chrY	13318827	.	C	T	291.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19246	chrY	13318843	.	G	T	208.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19247	chrY	13318845	.	C	G	210.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19248	chrY	13318891	.	C	G	150.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19249	chrY	13318933	.	A	G	208.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19250	chrY	13318939	.	G	A	208.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19251	chrY	13319087	.	C	T	392.28	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
19252	chrY	13319154	.	C	T	1932.86	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
19253	chrY	13319162	.	T	C	2244.68	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
19254	chrY	13319163	.	G	A	2084.46	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
19255	chrY	13319196	.	G	T	93.87	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
19256	chrY	13319282	.	G	A	852.28	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19257	chrY	13319335	.	C	T	624.78	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19258	chrY	13319340	.	T	A	623.41	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19259	chrY	13319375	.	C	G	275.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19260	chrY	13319384	.	T	C	190.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19261	chrY	13319386	.	A	C	190.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19262	chrY	13319510	.	G	A	305.64	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
19263	chrY	13319518	.	G	T	326.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
19264	chrY	13319527	.	T	A	405.57	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
19265	chrY	13319551	.	C	A	1636.19	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
19266	chrY	13319596	.	C	A	3685.22	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19267	chrY	13319615	.	T	C	1670.14	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19268	chrY	13319631	.	C	A	62.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19269	chrY	13319654	.	G	A	87.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19270	chrY	13319692	.	C	T	243.38	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
19271	chrY	13319696	.	T	A	37.52	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
19272	chrY	13319698	.	T	C	7328.67	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum=
19273	chrY	13319707	.	C	T	6843.50	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=
19274	chrY	13319725	.	A	G	4266.39	PASS	AC=21;AF=0.389;AN=54;BaseQRankSum=
19275	chrY	13319747	.	C	T	4693.03	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
19276	chrY	13319748	.	A	G	4690.02	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
19277	chrY	13319762	.	A	G	3419.41	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19278	chrY	13319782	.	A	T	3339.48	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19279	chrY	13319801	.	A	T	3388.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
19280	chrY	13319845	.	C	A	147.16	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
19281	chrY	13319855	.	T	C	4498.07	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
19282	chrY	13319909	.	A	C	9828.58	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
19283	chrY	13319934	.	A	C	11823.04	PASS	AC=26;AF=0.382;AN=68;BaseQ
19284	chrY	13319936	.	A	G	1370.64	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
19285	chrY	13319979	.	C	T	8981.56	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
19286	chrY	13319994	.	C	G	8362.61	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
19287	chrY	13320070	.	A	T	4847.95	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
19288	chrY	13320112	.	A	G	5891.92	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
19289	chrY	13320121	.	C	A	5901.89	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
19290	chrY	13320158	.	C	A	2710.01	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
19291	chrY	13320226	.	C	T	262.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19292	chrY	13320227	.	A	G	1256.02	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19293	chrY	13320239	.	T	G	1111.95	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19294	chrY	13320241	.	A	G	1111.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19295	chrY	13320303	.	T	G	2885.45	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19296	chrY	13320307	.	A	G	2877.25	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19297	chrY	13320385	.	C	G	4670.34	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
19298	chrY	13320387	.	T	A	4670.34	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
19299	chrY	13320463	.	T	G	1602.55	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
19300	chrY	13320507	.	G	C	529.94	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
19301	chrY	13320533	.	A	G	202.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
19302	chrY	13320545	.	G	A	2578.32	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19303	chrY	13320566	.	A	G	383.33	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19304	chrY	13320579	.	A	T	3315.75	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=

19305	chrY	13320582	.	T	C	501.21	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19306	chrY	13320658	.	C	T	4250.09	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
19307	chrY	13320665	.	G	T	4159.47	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
19308	chrY	13320673	.	G	A	3920.26	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
19309	chrY	13320696	.	C	T	3690.67	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19310	chrY	13320705	.	A	G	2781.76	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
19311	chrY	13320727	.	C	A	2713.54	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
19312	chrY	13320744	.	C	G	2528.58	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
19313	chrY	13320745	.	C	T	2532.34	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
19314	chrY	13320797	.	C	T	876.58	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19315	chrY	13320806	.	C	T	787.74	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
19316	chrY	13320831	.	C	T	827.61	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
19317	chrY	13320879	.	A	T	3977.28	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
19318	chrY	13320890	.	G	A	4761.30	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
19319	chrY	13320895	.	T	C	4996.44	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
19320	chrY	13320927	.	A	G	5829.32	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19321	chrY	13320932	.	T	C	6105.80	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
19322	chrY	13320995	.	T	G	1446.87	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19323	chrY	13321024	.	A	G	7486.16	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
19324	chrY	13321069	.	A	T	5049.39	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
19325	chrY	13321092	.	T	C	3655.25	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
19326	chrY	13321117	.	G	A	2469.76	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
19327	chrY	13321158	.	G	A	727.02	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19328	chrY	13321185	.	G	C	1826.57	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
19329	chrY	13321195	.	G	T	2102.11	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
19330	chrY	13321217	.	G	T	1911.63	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
19331	chrY	13321285	.	C	G	2033.76	PASS	AC=16;AF=0.381;AN=42;BaseQRankSum=
19332	chrY	13321324	.	C	T	1088.10	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
19333	chrY	13321335	.	A	C	716.76	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
19334	chrY	13321386	.	C	T	6664.32	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
19335	chrY	13321410	.	G	A	7287.21	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
19336	chrY	13321499	.	T	C	85.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19337	chrY	13321514	.	T	A	40.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
19338	chrY	13321657	.	A	G	642.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19339	chrY	13321662	.	T	A	642.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19340	chrY	13321939	.	T	A	786.53	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
19341	chrY	13321996	.	C	T	1104.39	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
19342	chrY	13322036	.	A	G	1547.33	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
19343	chrY	13322046	.	A	G	1460.75	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
19344	chrY	13322121	.	A	G	329.29	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19345	chrY	13322125	.	T	C	334.34	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19346	chrY	13322130	.	A	G	295.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19347	chrY	13322203	.	A	G	55.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19348	chrY	13322244	.	C	G	132.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19349	chrY	13322249	.	C	A	175.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19350	chrY	13322251	.	G	A	175.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19351	chrY	13322270	.	T	C	171.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19352	chrY	13322287	.	T	A	259.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19353	chrY	13322302	.	T	A	250.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19354	chrY	13322322	.	A	G	281.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19355	chrY	13322362	.	C	T	80.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19356	chrY	13322383	.	A	G	75.62	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
19357	chrY	13322474	.	G	A	1912.30	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
19358	chrY	13322480	.	A	T	1210.48	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
19359	chrY	13322740	.	C	A	531.27	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
19360	chrY	13322787	.	C	T	546.74	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
19361	chrY	13322788	.	T	G	546.29	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
19362	chrY	13322822	.	A	G	185.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19363	chrY	13322824	.	T	G	4385.76	my_snp_filter	AC=11;AF=0.167;AN=66;Base
19364	chrY	13322828	.	C	T	465.67	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19365	chrY	13322834	.	T	C	568.01	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19366	chrY	13322842	.	G	A	646.22	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
19367	chrY	13322858	.	C	T	1231.89	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
19368	chrY	13322875	.	A	G	1523.89	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
19369	chrY	13322915	.	G	A	81.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
19370	chrY	13322927	.	G	A	8315.73	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
19371	chrY	13322933	.	A	G	8443.87	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
19372	chrY	13322972	.	C	A	6604.70	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
19373	chrY	13323007	.	C	T	18475.73	PASS	AC=35;AF=0.500;AN=70;Base
19374	chrY	13323022	.	G	A	5343.41	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19375	chrY	13323027	.	T	A	5102.60	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19376	chrY	13323035	.	T	C	4518.37	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
19377	chrY	13323059	.	C	T	2348.02	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19378	chrY	13323094	.	C	T	16461.53	PASS	AC=34;AF=0.486;AN=70;Base
19379	chrY	13323119	.	T	C	17108.87	PASS	AC=34;AF=0.486;AN=70;Base
19380	chrY	13323133	.	T	C	982.80	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=

19381	chrY	13323145	.	C	T	993.26	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
19382	chrY	13323150	.	G	A	732.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19383	chrY	13323172	.	G	A	761.80	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19384	chrY	13323184	.	T	C	229.38	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19385	chrY	13323188	.	T	C	610.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19386	chrY	13323197	.	A	T	348.24	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19387	chrY	13323205	.	C	T	230.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19388	chrY	13323206	.	G	A	4650.90	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
19389	chrY	13323213	.	T	C	4779.75	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
19390	chrY	13323214	.	G	T	176.76	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19391	chrY	13323226	.	G	A	4438.20	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
19392	chrY	13323227	.	T	C	5003.87	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
19393	chrY	13323252	.	C	T	829.09	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
19394	chrY	13323253	.	A	C	829.09	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
19395	chrY	13323258	.	C	T	968.40	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
19396	chrY	13323282	.	C	A	1186.80	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
19397	chrY	13323309	.	A	G	2414.20	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
19398	chrY	13323311	.	C	A	3478.83	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ
19399	chrY	13323318	.	T	C	6717.07	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
19400	chrY	13323338	.	T	A	3479.39	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
19401	chrY	13323359	.	C	A	990.05	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
19402	chrY	13323360	.	G	A	3972.85	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
19403	chrY	13323393	.	C	G	3520.43	PASS	AC=10;AF=0.385;AN=26;BaseQRankSum=
19404	chrY	13323478	.	T	A	49.02	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
19405	chrY	13323493	.	A	C	5806.31	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum=
19406	chrY	13323510	.	A	T	5600.16	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
19407	chrY	13323515	.	A	T	5489.83	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
19408	chrY	13323523	.	G	A	5484.77	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
19409	chrY	13323548	.	A	G	4895.60	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
19410	chrY	13323736	.	A	C	2093.75	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
19411	chrY	13323745	.	G	A	79.43	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
19412	chrY	13323747	.	A	C	2596.88	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
19413	chrY	13323793	.	G	A	2548.98	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19414	chrY	13323798	.	C	T	70.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19415	chrY	13323880	.	G	A	2388.29	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19416	chrY	13323884	.	T	C	4406.59	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
19417	chrY	13323912	.	G	C	1796.50	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
19418	chrY	13323935	.	G	C	595.18	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19419	chrY	13324002	.	G	A	4097.63	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
19420	chrY	13324007	.	G	C	3989.50	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
19421	chrY	13324015	.	G	A	8072.69	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
19422	chrY	13324056	.	A	T	3657.97	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19423	chrY	13324071	.	G	A	159.58	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19424	chrY	13324079	.	T	C	4250.30	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
19425	chrY	13324089	.	A	G	4102.12	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19426	chrY	13324118	.	G	A	2328.10	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
19427	chrY	13324143	.	G	T	2180.98	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
19428	chrY	13324155	.	C	A	1032.47	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
19429	chrY	13324168	.	C	T	4070.40	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
19430	chrY	13324170	.	T	G	2950.16	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19431	chrY	13324216	.	G	C	35.44	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
19432	chrY	13324224	.	T	C	865.09	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
19433	chrY	13324233	.	T	C	955.84	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
19434	chrY	13324244	.	T	A	806.62	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19435	chrY	13324266	.	A	G	1011.04	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
19436	chrY	13324307	.	A	G	4985.64	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
19437	chrY	13324316	.	T	C	5210.80	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
19438	chrY	13324322	.	C	A	5252.47	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
19439	chrY	13324362	.	C	A	3209.92	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
19440	chrY	13324401	.	T	C	3893.64	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
19441	chrY	13324404	.	C	T	3893.79	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
19442	chrY	13324409	.	T	C	3707.19	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
19443	chrY	13324416	.	C	T	3483.55	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
19444	chrY	13324422	.	C	A	3265.57	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19445	chrY	13324460	.	A	G	365.12	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
19446	chrY	13324478	.	T	C	68.17	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
19447	chrY	13324536	.	G	A	138.79	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
19448	chrY	13324571	.	T	C	1231.15	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19449	chrY	13324578	.	A	G	1441.62	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19450	chrY	13324583	.	A	G	1574.42	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19451	chrY	13324588	.	A	G	1674.36	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19452	chrY	13324593	.	A	C	1797.51	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
19453	chrY	13324605	.	C	G	1561.27	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19454	chrY	13324642	.	C	T	1365.64	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
19455	chrY	13324699	.	A	C	2193.74	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
19456	chrY	13324709	.	T	C	2125.55	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=

19457	chrY	13324710	.	G	C	2116.15	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
19458	chrY	13324714	.	C	T	1967.55	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
19459	chrY	13324720	.	A	G	1976.99	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
19460	chrY	13324741	.	A	T	1332.69	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
19461	chrY	13324751	.	G	C	1033.64	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19462	chrY	13324760	.	C	T	891.35	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19463	chrY	13324791	.	G	A	184.04	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
19464	chrY	13324806	.	T	C	152.44	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
19465	chrY	13324974	.	A	T	90.51	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
19466	chrY	13324984	.	C	T	90.62	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
19467	chrY	13324985	.	C	G	90.37	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
19468	chrY	13325106	.	T	G	190.86	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
19469	chrY	13325169	.	C	A	38.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19470	chrY	13325171	.	A	T	152.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
19471	chrY	13325177	.	G	T	40.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
19472	chrY	13325275	.	A	G	124.52	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
19473	chrY	13325292	.	C	G	87.40	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19474	chrY	13325299	.	G	A	88.05	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19475	chrY	13325346	.	G	A	231.14	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19476	chrY	13325402	.	T	C	3479.51	PASS	AC=45;AF=0.682;AN=66;BaseQRankSum=
19477	chrY	13325487	.	C	G	198.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19478	chrY	13325495	.	A	T	280.57	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
19479	chrY	13325496	.	C	T	1734.54	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
19480	chrY	13325501	.	G	T	151.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19481	chrY	13325536	.	C	A	324.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19482	chrY	13325562	.	A	G	319.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19483	chrY	13325571	.	T	A	196.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19484	chrY	13325605	.	T	G	51.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
19485	chrY	13325730	.	T	C	405.17	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19486	chrY	13325752	.	C	T	515.16	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19487	chrY	13325778	.	T	A	927.03	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
19488	chrY	13325816	.	G	A	1194.24	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
19489	chrY	13325846	.	C	T	1949.66	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
19490	chrY	13325865	.	G	C	1387.62	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
19491	chrY	13325872	.	C	T	1404.55	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
19492	chrY	13325881	.	A	G	1375.48	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
19493	chrY	13325891	.	C	T	1286.19	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
19494	chrY	13325959	.	A	G	825.95	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
19495	chrY	13325964	.	A	G	1023.48	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19496	chrY	13325975	.	A	G	62.47	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19497	chrY	13325977	.	T	G	104.47	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19498	chrY	13325978	.	G	T	1368.81	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19499	chrY	13325983	.	A	T	152.45	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19500	chrY	13325984	.	A	G	1415.81	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19501	chrY	13325987	.	C	T	155.45	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19502	chrY	13325999	.	T	G	2116.10	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
19503	chrY	13326019	.	A	G	1581.12	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
19504	chrY	13326039	.	G	A	562.54	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19505	chrY	13326170	.	A	T	30.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19506	chrY	13326172	.	T	G	117.51	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19507	chrY	13326180	.	C	G	50.46	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19508	chrY	13326220	.	T	C	59.95	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19509	chrY	13326230	.	A	C	72.34	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
19510	chrY	13326305	.	A	T	149.12	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
19511	chrY	13326341	.	C	T	48.61	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
19512	chrY	13326635	.	A	G	142.37	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19513	chrY	13326644	.	C	A	348.52	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
19514	chrY	13326677	.	A	C	243.07	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
19515	chrY	13326741	.	T	G	77.99	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
19516	chrY	13326775	.	C	T	116.72	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
19517	chrY	13326780	.	C	G	128.76	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
19518	chrY	13326824	.	A	G	198.26	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
19519	chrY	13326840	.	C	G	252.22	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
19520	chrY	13326898	.	T	C	384.49	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
19521	chrY	13326972	.	T	A	979.97	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
19522	chrY	13326973	.	A	T	980.12	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
19523	chrY	13326997	.	T	C	1287.53	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
19524	chrY	13327013	.	T	G	2198.47	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
19525	chrY	13327048	.	A	C	4913.53	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
19526	chrY	13327177	.	A	C	202.29	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19527	chrY	13327190	.	G	A	230.80	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
19528	chrY	13327259	.	A	C	55.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19529	chrY	13327291	.	C	A	1843.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19530	chrY	13327292	.	A	T	1843.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19531	chrY	13327307	.	G	T	1259.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19532	chrY	13327317	.	G	C	1098.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

19533	chrY	13327319	.	A	C	1508.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19534	chrY	13327383	.	C	G	647.28	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19535	chrY	13327429	.	C	G	65.10	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
19536	chrY	13327463	.	G	T	253.19	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19537	chrY	13327469	.	A	G	303.70	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19538	chrY	13327473	.	T	G	231.44	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19539	chrY	13327523	.	G	A	1368.24	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
19540	chrY	13327674	.	T	C	1384.55	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
19541	chrY	13327744	.	T	C	3574.31	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
19542	chrY	13327746	.	G	A	3562.18	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
19543	chrY	13327754	.	T	G	3157.65	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
19544	chrY	13327768	.	G	A	2418.94	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
19545	chrY	13327801	.	C	T	2308.58	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
19546	chrY	13327806	.	A	C	2275.67	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
19547	chrY	13327829	.	A	G	1586.87	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19548	chrY	13327831	.	G	A	1582.40	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19549	chrY	13327857	.	G	T	969.48	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
19550	chrY	13327874	.	T	G	664.64	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
19551	chrY	13327875	.	C	T	698.20	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
19552	chrY	13327892	.	G	A	596.25	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
19553	chrY	13327900	.	A	G	608.18	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
19554	chrY	13327927	.	A	G	338.69	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
19555	chrY	13328020	.	C	T	670.35	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19556	chrY	13328024	.	C	T	408.60	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19557	chrY	13328034	.	A	G	1319.98	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19558	chrY	13328213	.	T	G	88.79	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
19559	chrY	13328235	.	G	C	190.07	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
19560	chrY	13328237	.	C	G	189.78	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
19561	chrY	13328252	.	C	T	192.16	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
19562	chrY	13328269	.	C	T	150.70	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
19563	chrY	13328279	.	T	C	150.91	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
19564	chrY	13328285	.	T	C	153.53	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
19565	chrY	13328788	.	C	T	131.35	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
19566	chrY	13328810	.	C	T	391.82	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
19567	chrY	13328821	.	T	A	307.37	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
19568	chrY	13328826	.	C	T	38.37	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
19569	chrY	13328832	.	A	C	1180.97	PASS	AC=15;AF=0.278;AN=54;BaseQRankSum=
19570	chrY	13328868	.	C	T	984.72	PASS	AC=11;AF=0.220;AN=50;BaseQRankSum=
19571	chrY	13328869	.	G	T	984.72	PASS	AC=11;AF=0.220;AN=50;BaseQRankSum=
19572	chrY	13328895	.	C	G	324.51	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
19573	chrY	13328908	.	G	A	399.91	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
19574	chrY	13328911	.	A	G, T	870.76	PASS	AC=6, 5;AF=0.125, 0.104;AN=48;BaseQ
19575	chrY	13328919	.	A	G	605.54	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
19576	chrY	13328920	.	G	C	602.21	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
19577	chrY	13328927	.	A	C	338.75	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
19578	chrY	13328948	.	A	C	344.59	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19579	chrY	13328958	.	G	C	384.24	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
19580	chrY	13328974	.	G	T	551.38	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19581	chrY	13328976	.	G	A	589.25	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19582	chrY	13328979	.	G	T	614.48	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
19583	chrY	13328986	.	T	C	612.20	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
19584	chrY	13329025	.	A	G	1814.85	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum=
19585	chrY	13329054	.	C	T	4426.57	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
19586	chrY	13329069	.	C	T	5092.90	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
19587	chrY	13329135	.	A	G	1048.77	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
19588	chrY	13329265	.	A	G	62.65	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
19589	chrY	13329307	.	G	C	1119.97	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
19590	chrY	13329318	.	T	C	1047.18	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19591	chrY	13329331	.	G	C	1083.69	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
19592	chrY	13329338	.	C	G	1087.18	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
19593	chrY	13329344	.	C	T	1036.72	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
19594	chrY	13329361	.	T	C	994.08	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
19595	chrY	13329469	.	G	A	416.53	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQ
19596	chrY	13329476	.	T	C	391.42	my_snp_filter	AC=6;AF=0.130;AN=46;BaseQ
19597	chrY	13329506	.	A	G	259.86	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
19598	chrY	13329516	.	G	T	239.39	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
19599	chrY	13329518	.	G	A	217.35	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
19600	chrY	13329524	.	G	T	229.37	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
19601	chrY	13330931	.	C	T	675.08	PASS	AC=6;AF=0.086;AN=70;DP=393;FS=0.0
19602	chrY	13331076	.	A	G	709.78	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
19603	chrY	13331100	.	C	G	693.29	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
19604	chrY	13331101	.	A	G	698.58	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
19605	chrY	13331256	.	C	T	49.42	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
19606	chrY	13331264	.	T	C	47.23	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
19607	chrY	13331385	.	T	G	198.06	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
19608	chrY	13331402	.	A	G	32.72	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ

19609	chrY	13331412	.	C	A	196.26	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
19610	chrY	13331444	.	C	T	38.56	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
19611	chrY	13331501	.	C	A	1246.82	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19612	chrY	13331509	.	A	G	496.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
19613	chrY	13331524	.	A	G	187.03	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
19614	chrY	13331545	.	A	G	193.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19615	chrY	13331552	.	G	A	187.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19616	chrY	13331707	.	G	T	249.05	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
19617	chrY	13331712	.	T	A	279.31	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
19618	chrY	13331713	.	G	A	254.93	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
19619	chrY	13331722	.	G	C	880.37	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
19620	chrY	13331827	.	T	G	163.19	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
19621	chrY	13331833	.	G	A	243.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
19622	chrY	13331840	.	G	T	85.95	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
19623	chrY	13331889	.	A	G	4274.33	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
19624	chrY	13331902	.	A	G	4304.67	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
19625	chrY	13331935	.	G	A	89.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
19626	chrY	13331979	.	A	G	798.14	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19627	chrY	13332016	.	A	C	1689.62	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
19628	chrY	13332020	.	A	C	831.48	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
19629	chrY	13332029	.	G	T	954.42	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
19630	chrY	13332041	.	T	C	1818.93	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
19631	chrY	13332042	.	G	C	45.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
19632	chrY	13332044	.	G	T	360.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
19633	chrY	13332069	.	T	C	226.22	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19634	chrY	13332081	.	T	C	134.39	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19635	chrY	13332083	.	C	T	200.98	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19636	chrY	13332090	.	C	T	256.11	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19637	chrY	13332095	.	T	C	264.93	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19638	chrY	13332101	.	A	G	281.14	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
19639	chrY	13332106	.	G	A	208.99	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19640	chrY	13332116	.	C	T	124.24	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
19641	chrY	13332142	.	C	A	222.73	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
19642	chrY	13332153	.	C	G	386.89	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
19643	chrY	13332156	.	G	A	5059.53	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
19644	chrY	13332160	.	C	A	226.63	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
19645	chrY	13332167	.	C	T	440.91	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19646	chrY	13332170	.	G	T	204.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19647	chrY	13332172	.	T	C	498.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
19648	chrY	13332180	.	G	C	640.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
19649	chrY	13332198	.	G	T	146.14	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
19650	chrY	13332210	.	C	G	184.48	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
19651	chrY	13332218	.	G	C	35.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
19652	chrY	13332224	.	G	C	238.80	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
19653	chrY	13332225	.	C	T	740.24	my_snp_filter	AC=12;AF=0.188;AN=64;BaseQ
19654	chrY	13332246	.	G	C	1973.82	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
19655	chrY	13332268	.	C	T	157.57	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
19656	chrY	13332277	.	C	T	1038.29	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
19657	chrY	13332303	.	C	A	1272.77	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
19658	chrY	13332322	.	C	T	1712.23	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
19659	chrY	13332330	.	A	T	1517.99	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
19660	chrY	13332833	.	C	A	60.85	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
19661	chrY	13332835	.	C	T	60.77	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
19662	chrY	13332857	.	T	A	559.18	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
19663	chrY	13333712	.	A	G	91.60	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
19664	chrY	13333971	.	T	G	33.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
19665	chrY	13334368	.	C	T	1481.93	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
19666	chrY	13334385	.	A	G	57.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19667	chrY	13334400	.	G	C	72.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
19668	chrY	13334652	.	A	C	247.73	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19669	chrY	13334665	.	C	G	520.47	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
19670	chrY	13334741	.	T	G	1022.02	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
19671	chrY	13334763	.	A	G,*	431.45	PASS	AC=1,2;AF=0.036,0.071;AN=28;BaseQ
19672	chrY	13334764	.	C	T,*	424.20	PASS	AC=1,2;AF=0.036,0.071;AN=28;BaseQ
19673	chrY	13334819	.	G	A	169.51	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
19674	chrY	13334873	.	C	T	1002.61	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19675	chrY	13334883	.	A	T	42.86	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19676	chrY	13334889	.	T	C	209.23	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
19677	chrY	13334891	.	A	C	493.83	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19678	chrY	13334990	.	T	C	395.69	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19679	chrY	13335007	.	T	C	924.44	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
19680	chrY	13335016	.	T	A	790.97	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
19681	chrY	13335026	.	G	A	818.18	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
19682	chrY	13335598	.	G	A	850.13	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19683	chrY	13335602	.	G	A	1048.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
19684	chrY	13335612	.	T	C	865.18	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=

19685	chrY	13335619	.	A	G	114.78	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
19686	chrY	13335644	.	C	T	114.46	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
19687	chrY	13335687	.	G	A	498.14	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19688	chrY	13335735	.	C	T	90.89	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
19689	chrY	13335741	.	C	G	408.68	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19690	chrY	13335758	.	C	A	127.34	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
19691	chrY	13335775	.	T	C	67.68	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
19692	chrY	13335777	.	G	T	185.78	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
19693	chrY	13335781	.	C	T	179.76	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
19694	chrY	13335801	.	T	C	1352.52	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
19695	chrY	13335824	.	C	A	96.82	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
19696	chrY	13335831	.	G	A	661.84	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
19697	chrY	13335861	.	G	T	142.59	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
19698	chrY	13335900	.	C	A	521.33	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
19699	chrY	13336023	.	C	T	483.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
19700	chrY	13336042	.	G	A	57.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
19701	chrY	13336088	.	G	A	199.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
19702	chrY	13336105	.	C	T	184.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19703	chrY	13336117	.	C	A	190	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
19704	chrY	13336370	.	C	G	185.01	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
19705	chrY	13336447	.	G	T	112.86	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
19706	chrY	13336459	.	G	T	88.11	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
19707	chrY	13336471	.	C	T	40.14	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
19708	chrY	13336537	.	A	G	174.74	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19709	chrY	13336573	.	T	C	122.82	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19710	chrY	13336584	.	C	G	136.90	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19711	chrY	13336621	.	A	G	120.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19712	chrY	13336627	.	G	T	113.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19713	chrY	13336630	.	C	T	129.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19714	chrY	13336652	.	C	T	430.83	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19715	chrY	13336653	.	G	A	100.12	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19716	chrY	13336656	.	A	G	387.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19717	chrY	13336664	.	T	A	79.36	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19718	chrY	13336668	.	G	T	44.18	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
19719	chrY	13336669	.	T	G	186.10	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19720	chrY	13336689	.	C	T	835.78	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
19721	chrY	13336694	.	A	C	117.19	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
19722	chrY	13336710	.	G	A	31.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
19723	chrY	13336716	.	G	A	52.69	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
19724	chrY	13336889	.	G	A	72.80	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19725	chrY	13336907	.	G	C	66.21	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19726	chrY	13336947	.	C	T	39.86	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19727	chrY	13337906	.	T	C	191.82	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19728	chrY	13338057	.	C	A	89.47	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19729	chrY	13338064	.	C	A	70.52	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19730	chrY	13338067	.	A	T	159.19	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19731	chrY	13338075	.	C	T	139.18	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19732	chrY	13338106	.	C	T	171.09	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19733	chrY	13338293	.	G	A	276.18	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19734	chrY	13338382	.	T	C	211.40	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19735	chrY	13338480	.	A	G	100.65	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
19736	chrY	13338579	.	A	G	227.49	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19737	chrY	13338675	.	G	C	211.19	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19738	chrY	13338678	.	T	G	227.49	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19739	chrY	13338694	.	C	T	278.92	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19740	chrY	13338704	.	G	A	288.61	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19741	chrY	13338803	.	T	C	441.21	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19742	chrY	13338806	.	C	G	594.65	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19743	chrY	13338813	.	G	A	370.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19744	chrY	13338816	.	A	G	457.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19745	chrY	13338818	.	G	A	37.78	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19746	chrY	13338821	.	G	A	513.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19747	chrY	13338836	.	A	C	884.70	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19748	chrY	13339001	.	A	T	114.03	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
19749	chrY	13339027	.	T	A	121.99	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
19750	chrY	13339029	.	A	C	115.09	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
19751	chrY	13339030	.	T	G	109.17	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
19752	chrY	13339171	.	T	C	174.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19753	chrY	13339195	.	A	G	320.97	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19754	chrY	13339203	.	A	G	323.39	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19755	chrY	13339205	.	A	G	365.39	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19756	chrY	13339231	.	C	T	431.40	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
19757	chrY	13339256	.	A	T	480.53	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
19758	chrY	13339268	.	A	T	78	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19759	chrY	13339304	.	A	T	310.13	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
19760	chrY	13339333	.	A	T	452.47	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=

19761	chrY	13339336	.	G	C	329.98	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
19762	chrY	13339347	.	T	C	246.63	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
19763	chrY	13339352	.	A	T	226.11	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
19764	chrY	13339357	.	T	G	279.77	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
19765	chrY	13339369	.	G	A	308.62	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19766	chrY	13339393	.	T	G	99.45	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19767	chrY	13339572	.	C	T	424.79	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
19768	chrY	13339574	.	C	T	420.75	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19769	chrY	13339577	.	C	A	313.05	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19770	chrY	13339592	.	T	A	288.33	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19771	chrY	13339594	.	T	G	33.05	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19772	chrY	13339600	.	T	C	33.06	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19773	chrY	13339601	.	G	C	33.16	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19774	chrY	13339609	.	G	A	1210.44	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19775	chrY	13339625	.	C	T	329.14	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19776	chrY	13339626	.	C	G	567.55	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19777	chrY	13339632	.	G	T	291.28	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19778	chrY	13339641	.	G	A	106.31	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19779	chrY	13339669	.	T	C	265.97	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19780	chrY	13339684	.	T	A,*	543.82	PASS	AC=1,3;AF=0.050,0.150;AN=20;BaseQ
19781	chrY	13339686	.	G	T	468.96	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19782	chrY	13339693	.	T	G,*	557.14	PASS	AC=1,3;AF=0.050,0.150;AN=20;BaseQ
19783	chrY	13339702	.	C	G,*	575.68	PASS	AC=1,3;AF=0.050,0.150;AN=20;BaseQ
19784	chrY	13339725	.	A	G	553.14	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19785	chrY	13339788	.	C	T	2003.61	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
19786	chrY	13339812	.	G	A	639.55	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19787	chrY	13339813	.	C	T	137.52	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
19788	chrY	13339885	.	C	T	448.09	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19789	chrY	13339891	.	A	T	574.77	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19790	chrY	13340328	.	C	G	111.04	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19791	chrY	13340503	.	T	C	126.44	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
19792	chrY	13340506	.	T	C	154.72	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
19793	chrY	13340514	.	A	G	148.36	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19794	chrY	13340581	.	G	A	33.43	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
19795	chrY	13340600	.	C	A	39.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
19796	chrY	13340609	.	A	G	616.63	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
19797	chrY	13340615	.	C	T	33.09	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
19798	chrY	13340628	.	A	G	558.56	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
19799	chrY	13340638	.	G	A	364.87	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19800	chrY	13340644	.	T	C	367.82	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19801	chrY	13340650	.	T	C	298.48	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
19802	chrY	13340652	.	T	C	304.58	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
19803	chrY	13340658	.	G	A	60.05	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19804	chrY	13340917	.	C	T	797.60	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19805	chrY	13340921	.	G	A	775.98	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19806	chrY	13340924	.	C	T	748.87	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19807	chrY	13340942	.	T	C	367.82	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19808	chrY	13340967	.	T	G	88.84	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19809	chrY	13341206	.	G	A	1354.55	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19810	chrY	13341417	.	T	C	226.63	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19811	chrY	13341459	.	G	A	38.61	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19812	chrY	13341462	.	T	C	111.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19813	chrY	13341464	.	T	C	111.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19814	chrY	13341519	.	C	T	128.98	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
19815	chrY	13341546	.	G	A	916.44	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19816	chrY	13341611	.	C	T	55.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
19817	chrY	13341674	.	C	G	751.27	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19818	chrY	13341678	.	G	T	829.51	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19819	chrY	13341843	.	T	C	47.57	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19820	chrY	13341844	.	G	A	48.26	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19821	chrY	13341845	.	G	C	107.29	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19822	chrY	13341895	.	C	T	106.76	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19823	chrY	13342181	.	A	T	2108.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
19824	chrY	13342225	.	T	C	52.67	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19825	chrY	13342235	.	G	A	1126.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
19826	chrY	13342377	.	C	A	2567.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
19827	chrY	13342392	.	C	G	257.36	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19828	chrY	13342410	.	C	A	3893.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
19829	chrY	13342434	.	A	G	2127.91	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
19830	chrY	13342487	.	T	C	3069.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
19831	chrY	13342523	.	A	T	1286.69	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
19832	chrY	13342542	.	T	C	153.03	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
19833	chrY	13342638	.	G	A	142.97	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
19834	chrY	13342648	.	C	T	126.74	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19835	chrY	13343141	.	C	A	235.25	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19836	chrY	13343146	.	T	G	777.03	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ

19837	chrY	13343198	.	T	A	248.68	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19838	chrY	13343283	.	A	G	161.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19839	chrY	13343293	.	A	T	194.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19840	chrY	13343298	.	C	T	36.45	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19841	chrY	13343299	.	A	T	60.47	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19842	chrY	13343304	.	C	A	733.79	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19843	chrY	13343320	.	T	C	441.51	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19844	chrY	13343334	.	T	A	157.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19845	chrY	13343356	.	C	T	98.46	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
19846	chrY	13343359	.	G	A	101.46	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
19847	chrY	13343408	.	T	G	355.23	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19848	chrY	13343458	.	T	A	164.48	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19849	chrY	13343479	.	T	C	84.41	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19850	chrY	13343482	.	T	C	83.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19851	chrY	13343597	.	G	T	32.74	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19852	chrY	13343662	.	C	G	31.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19853	chrY	13344084	.	A	G	11165.26	PASS	AC=58;AF=0.829;AN=70;DP=5
19854	chrY	13345115	.	G	T,*	1099.77	PASS	AC=6,1;AF=0.333,0.056;AN=18;BaseQ
19855	chrY	13345123	.	T	C	65.33	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19856	chrY	13345128	.	A	G	627.25	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19857	chrY	13345159	.	T	A	1982.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
19858	chrY	13345169	.	T	A,G	990.62	PASS	AC=4,3;AF=0.200,0.150;AN=20;BaseQ
19859	chrY	13345179	.	T	C	471.25	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19860	chrY	13345191	.	T	A	43.98	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19861	chrY	13345216	.	G	T	391.12	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
19862	chrY	13345234	.	A	G	477.49	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19863	chrY	13345261	.	G	A	602.88	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
19864	chrY	13345271	.	A	G	1586.20	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
19865	chrY	13345286	.	T	A	491.54	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
19866	chrY	13345325	.	G	T	147.71	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
19867	chrY	13345360	.	G	A	144.01	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
19868	chrY	13345391	.	T	A	730.47	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
19869	chrY	13345445	.	C	T	60.58	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
19870	chrY	13345697	.	G	A	150.92	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
19871	chrY	13345777	.	A	G	125.81	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19872	chrY	13345801	.	A	G	210.62	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
19873	chrY	13345820	.	C	T	668	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
19874	chrY	13345821	.	G	T	447.17	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
19875	chrY	13345944	.	G	C	38.93	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19876	chrY	13345946	.	C	A	119.81	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19877	chrY	13345990	.	A	G	164.43	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19878	chrY	13346004	.	C	T	89.53	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19879	chrY	13346251	.	C	T	239.96	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
19880	chrY	13346267	.	G	T	277.32	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
19881	chrY	13346339	.	A	G	30.96	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
19882	chrY	13346633	.	C	T	256.98	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
19883	chrY	13346634	.	A	G	369.66	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
19884	chrY	13346722	.	G	T	422.12	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19885	chrY	13346744	.	C	A	187.13	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19886	chrY	13346771	.	A	C	196.10	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19887	chrY	13346982	.	A	C	93.14	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19888	chrY	13347012	.	T	C	33.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19889	chrY	13347028	.	G	A	56.10	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19890	chrY	13347087	.	C	A	193.28	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19891	chrY	13347116	.	G	T	75.17	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19892	chrY	13347463	.	C	T	393.11	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19893	chrY	13347464	.	A	G	567.75	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19894	chrY	13347567	.	G	A	334.97	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19895	chrY	13347573	.	G	T	234.72	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19896	chrY	13347576	.	C	G	66.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19897	chrY	13347687	.	G	A	608.19	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19898	chrY	13347690	.	C	T	605.72	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19899	chrY	13347695	.	C	T	671.72	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19900	chrY	13347699	.	T	G	179.51	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19901	chrY	13347704	.	C	G	102.16	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19902	chrY	13347718	.	C	A	857.27	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19903	chrY	13347750	.	A	C	1205.01	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
19904	chrY	13347773	.	A	G	883.24	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19905	chrY	13347777	.	A	T	855.12	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19906	chrY	13347800	.	A	G	627.49	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19907	chrY	13347851	.	T	C	185.23	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19908	chrY	13347854	.	G	T	184.80	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19909	chrY	13347859	.	G	A	185.75	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19910	chrY	13347998	.	A	C	63.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19911	chrY	13348021	.	T	C	54.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19912	chrY	13348228	.	A	C	122.05	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=

19913	chrY	13348249	.	G	A	35.37	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
19914	chrY	13348286	.	A	G	89.89	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19915	chrY	13348314	.	G	A	42.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19916	chrY	13348315	.	T	C	44.16	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19917	chrY	13348316	.	G	A	43.18	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19918	chrY	13348319	.	C	A	66.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19919	chrY	13348348	.	C	T	176.90	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19920	chrY	13348358	.	A	T	131.16	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19921	chrY	13348369	.	G	A	53.13	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19922	chrY	13348435	.	G	C	3730.86	PASS	AC=18;AF=1.00;AN=18;DP=147;FS=0.0
19923	chrY	13348577	.	C	T	160.28	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19924	chrY	13348598	.	G	C	37.50	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19925	chrY	13348717	.	A	T	627.30	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19926	chrY	13348739	.	G	A	48.94	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19927	chrY	13348741	.	T	C	49.22	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19928	chrY	13348744	.	T	C	85.86	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
19929	chrY	13348749	.	T	C	80.83	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19930	chrY	13348767	.	T	C	616.09	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19931	chrY	13348778	.	G	A	603.66	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19932	chrY	13348858	.	C	G	279.76	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19933	chrY	13348896	.	C	T	198.46	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19934	chrY	13348897	.	C	T	41.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19935	chrY	13348900	.	C	T	375.47	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19936	chrY	13348902	.	C	T	1484.06	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
19937	chrY	13348940	.	T	C	326.62	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19938	chrY	13349042	.	T	C	502.25	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19939	chrY	13349045	.	T	G	522.31	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19940	chrY	13349048	.	C	T	527.49	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19941	chrY	13349054	.	G	A	564.11	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19942	chrY	13349064	.	A	T	559.43	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
19943	chrY	13349080	.	A	G	860.27	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
19944	chrY	13349184	.	T	C	501.10	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19945	chrY	13349230	.	G	C	124.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19946	chrY	13349231	.	A	C	122.82	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19947	chrY	13349387	.	T	C	289.96	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19948	chrY	13349399	.	T	A	343.56	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19949	chrY	13349425	.	T	A	348.28	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19950	chrY	13349475	.	G	T	88.71	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19951	chrY	13349496	.	C	T	91.94	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19952	chrY	13349644	.	G	A	287.36	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
19953	chrY	13349694	.	A	G	486.52	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19954	chrY	13349739	.	A	C	557.14	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19955	chrY	13349747	.	T	G	347.82	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19956	chrY	13349771	.	G	A	184.90	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19957	chrY	13349806	.	C	T	69.15	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
19958	chrY	13349839	.	T	A	35.52	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19959	chrY	13350013	.	G	C	163.13	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19960	chrY	13350014	.	T	C	162.30	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
19961	chrY	13350029	.	G	A	41.35	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
19962	chrY	13350565	.	G	T	212.58	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
19963	chrY	13350607	.	C	T	161.22	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19964	chrY	13350611	.	A	C	254.66	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19965	chrY	13350623	.	A	T	126.81	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
19966	chrY	13350673	.	G	A	789.40	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19967	chrY	13350677	.	C	T	731.95	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
19968	chrY	13350776	.	C	T	212.47	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19969	chrY	13350804	.	G	A	161	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
19970	chrY	13350835	.	G	A	692.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
19971	chrY	13350887	.	A	G	124.67	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19972	chrY	13350907	.	A	G	43.77	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
19973	chrY	13350922	.	C	T	46.91	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
19974	chrY	13350927	.	T	G	39	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19975	chrY	13351019	.	T	A	35.03	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19976	chrY	13351115	.	T	A	49.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
19977	chrY	13351208	.	T	A	158.85	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19978	chrY	13351229	.	A	T	37.77	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19979	chrY	13351239	.	A	T	195.99	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
19980	chrY	13351256	.	A	G	123.81	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
19981	chrY	13351341	.	G	T	908.08	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19982	chrY	13351353	.	A	G	820.87	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
19983	chrY	13351421	.	C	T	35.38	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19984	chrY	13351422	.	C	T	35.26	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
19985	chrY	13351474	.	G	T	1252.04	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
19986	chrY	13351499	.	A	G	134.82	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
19987	chrY	13351508	.	G	A	132.56	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
19988	chrY	13351681	.	T	C	1695.20	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ

19989	chrY	13351687	.	C	T	1125.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
19990	chrY	13351728	.	A	G	35.09	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
19991	chrY	13351764	.	C	T	316.20	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
19992	chrY	13351776	.	T	C	110.35	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
19993	chrY	13351819	.	G	C	501.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
19994	chrY	13351930	.	T	G	83.34	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
19995	chrY	13351944	.	A	G,T	558.09	PASS	AC=2,5;AF=0.111,0.278;AN=18;BaseQ
19996	chrY	13351955	.	A	T	2471.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
19997	chrY	13351971	.	A	G	238.90	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
19998	chrY	13351975	.	G	A	320.75	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
19999	chrY	13351989	.	T	A	168.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20000	chrY	13351993	.	G	C	168.33	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20001	chrY	13352045	.	A	G	950.08	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
20002	chrY	13352069	.	T	C	87.80	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20003	chrY	13352149	.	T	A	31.98	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20004	chrY	13352184	.	C	G	144.50	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20005	chrY	13352309	.	C	G	30.27	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
20006	chrY	13352312	.	A	G	30.27	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
20007	chrY	13352626	.	A	T	103.51	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
20008	chrY	13352838	.	C	G	106.93	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20009	chrY	13352839	.	A	G	106.93	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20010	chrY	13352909	.	C	A	305.18	PASS	AC=2;AF=0.091;AN=22;DP=189;FS=0.0
20011	chrY	13353036	.	G	C	83.06	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20012	chrY	13353066	.	C	T	384.40	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20013	chrY	13353074	.	A	C	404.67	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20014	chrY	13353108	.	G	T	156.16	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20015	chrY	13353489	.	C	T	287.09	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20016	chrY	13353499	.	C	T	344.52	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20017	chrY	13353528	.	T	C	470.40	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20018	chrY	13353658	.	A	T	104.61	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20019	chrY	13353667	.	C	G	118.23	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20020	chrY	13353693	.	A	G	93.31	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20021	chrY	13353833	.	T	G	274.26	PASS	AC=4;AF=0.250;AN=16;BaseQRankSum=
20022	chrY	13353839	.	G	T	560.52	PASS	AC=5;AF=0.313;AN=16;BaseQRankSum=
20023	chrY	13353856	.	A	G	628.60	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20024	chrY	13353859	.	C	T	32.21	PASS	AC=2;AF=0.111;AN=18;DP=80;FS=0.00
20025	chrY	13354036	.	A	G	682.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20026	chrY	13354107	.	T	C	418.60	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20027	chrY	13354110	.	C	T	94.19	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20028	chrY	13354145	.	C	T	250.23	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20029	chrY	13354164	.	C	A	218.74	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20030	chrY	13354289	.	C	T	82.31	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
20031	chrY	13354309	.	G	T	663.72	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20032	chrY	13354549	.	A	G	1547.32	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20033	chrY	13354558	.	G	T	358.51	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20034	chrY	13354586	.	C	T	61.06	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
20035	chrY	13354609	.	C	A	657.85	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
20036	chrY	13354716	.	T	C	907.94	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20037	chrY	13354729	.	T	C	787.27	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20038	chrY	13354760	.	C	T	188.84	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20039	chrY	13354763	.	A	C	846.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20040	chrY	13354773	.	T	A	266.87	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20041	chrY	13354795	.	G	T	67.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20042	chrY	13354820	.	T	C	304.69	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20043	chrY	13355885	.	C	A	1538.38	PASS	AC=6;AF=0.273;AN=22;DP=160;FS=0.0
20044	chrY	13355918	.	G	C	1544.26	PASS	AC=8;AF=0.400;AN=20;DP=157;FS=0.0
20045	chrY	13355984	.	C	A	401.25	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20046	chrY	13356003	.	A	T	398.86	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20047	chrY	13356015	.	T	A	424.52	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20048	chrY	13356135	.	G	A	264.47	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20049	chrY	13356309	.	G	A	97.09	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20050	chrY	13356343	.	G	T	353.09	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20051	chrY	13356414	.	T	C	37.49	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20052	chrY	13356628	.	G	C	398.08	PASS	AC=6;AF=0.333;AN=18;DP=139;FS=0.0
20053	chrY	13356656	.	C	A	32.34	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20054	chrY	13356899	.	G	T	260.70	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
20055	chrY	13356918	.	C	A	234.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20056	chrY	13356927	.	C	T	234.10	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20057	chrY	13356938	.	A	C	182.28	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20058	chrY	13356939	.	G	C	187.81	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20059	chrY	13356948	.	C	G	133.45	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
20060	chrY	13358504	.	G	C	78.24	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
20061	chrY	13358527	.	C	T	87.85	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
20062	chrY	13358568	.	C	T	186.47	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
20063	chrY	13358595	.	C	T	458.43	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
20064	chrY	13358612	.	G	A	342.85	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=

20065	chrY	13358701	.	A	G	58.61	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20066	chrY	13358706	.	G	A	53.57	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20067	chrY	13358716	.	T	A	54.97	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20068	chrY	13359115	.	A	G	36.81	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20069	chrY	13359238	.	C	T	103.84	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20070	chrY	13359240	.	G	A	229.56	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20071	chrY	13360230	.	A	G	31.36	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
20072	chrY	13360266	.	T	C	108.23	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
20073	chrY	13360445	.	C	T	50.11	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
20074	chrY	13360479	.	C	A	686.28	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
20075	chrY	13360502	.	C	T	862.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
20076	chrY	13360618	.	A	C	884.57	PASS	AC=4;AF=0.061;AN=66;DP=294;FS=0.0
20077	chrY	13361662	.	C	T	382.27	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20078	chrY	13362309	.	G	A	159.62	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20079	chrY	13362380	.	G	A	45.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20080	chrY	13362384	.	G	A	43.11	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20081	chrY	13362387	.	T	A	40.94	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20082	chrY	13362497	.	T	G	42.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20083	chrY	13362514	.	C	A	322.91	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20084	chrY	13362533	.	C	T	143.66	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20085	chrY	13362551	.	T	G	40.52	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20086	chrY	13362576	.	T	C	41.15	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20087	chrY	13362800	.	A	G	49.81	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20088	chrY	13362949	.	C	T	740.74	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20089	chrY	13362969	.	C	A	283.79	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20090	chrY	13362987	.	C	T	217.97	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20091	chrY	13362988	.	A	G	215.54	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20092	chrY	13362996	.	G	A	205.71	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20093	chrY	13363005	.	C	T	207.87	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20094	chrY	13363019	.	T	C	152.19	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20095	chrY	13363041	.	T	C	696.78	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20096	chrY	13363073	.	T	C	1170.28	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20097	chrY	13363075	.	C	A	247.78	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20098	chrY	13363088	.	A	G	1015	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20099	chrY	13363111	.	G	A	927.73	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20100	chrY	13363126	.	C	T	1005.62	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20101	chrY	13363142	.	T	G	844.73	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20102	chrY	13363175	.	C	T	643.86	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20103	chrY	13363193	.	G	T	361.94	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20104	chrY	13363219	.	C	T	1837.22	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20105	chrY	13363246	.	G	T	1923.81	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20106	chrY	13363271	.	C	A	1794.05	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20107	chrY	13363277	.	T	A	201.21	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
20108	chrY	13363283	.	C	T	3006.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20109	chrY	13363302	.	T	A	411.17	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20110	chrY	13363343	.	C	G	40.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20111	chrY	13363357	.	C	T	415.87	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20112	chrY	13363373	.	A	G	1005.84	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
20113	chrY	13363374	.	T	A	1447.51	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20114	chrY	13363400	.	G	C	136.61	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20115	chrY	13363416	.	A	T	840.66	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20116	chrY	13363428	.	T	C	1001.58	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20117	chrY	13363430	.	C	T,G	685.81	PASS	AC=2,3;AF=0.100,0.150;AN=20;BaseQ
20118	chrY	13363431	.	A	G	1504.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
20119	chrY	13363447	.	T	G	120.57	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20120	chrY	13363461	.	G	A	148.97	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20121	chrY	13363463	.	A	T	84.84	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20122	chrY	13363464	.	T	A	115.03	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20123	chrY	13363518	.	A	C	711.88	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20124	chrY	13363525	.	C	T	750.62	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20125	chrY	13363528	.	T	C	795.53	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20126	chrY	13363548	.	T	G	702.54	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20127	chrY	13363549	.	A	C	702.96	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20128	chrY	13363604	.	A	C	224.75	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20129	chrY	13363621	.	A	G	107.89	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20130	chrY	13363835	.	T	G	80.51	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20131	chrY	13363857	.	A	C	168.71	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20132	chrY	13364241	.	A	G	80	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20133	chrY	13364379	.	A	G	32.81	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
20134	chrY	13364406	.	T	A	121.37	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
20135	chrY	13364407	.	A	G	121.42	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
20136	chrY	13364428	.	T	C	3236.47	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20137	chrY	13364436	.	T	G	87.60	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
20138	chrY	13364441	.	G	A	3330.87	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
20139	chrY	13364575	.	G	T	2294.55	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20140	chrY	13364588	.	T	C	1847.51	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=

20141	chrY	13364701	.	A	C	812.22	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
20142	chrY	13364785	.	T	G	237.93	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
20143	chrY	13365382	.	C	T	44.84	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
20144	chrY	13365389	.	C	A	44.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
20145	chrY	13365407	.	T	A	41.67	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
20146	chrY	13365434	.	C	G	81.46	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
20147	chrY	13365624	.	G	T	107.44	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
20148	chrY	13365702	.	T	C	563.27	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
20149	chrY	13365709	.	G	C	566.03	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
20150	chrY	13365945	.	G	A	153.75	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20151	chrY	13366220	.	T	C	263.72	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20152	chrY	13366808	.	T	G	263.59	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
20153	chrY	13366845	.	C	T	520.19	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20154	chrY	13366857	.	T	G	484.66	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20155	chrY	13366877	.	G	A	463.09	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
20156	chrY	13367020	.	G	A	161	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
20157	chrY	13367038	.	T	C	198.50	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
20158	chrY	13367057	.	A	T	61.40	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
20159	chrY	13367127	.	T	C	50.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
20160	chrY	13367144	.	T	C	123.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20161	chrY	13367148	.	A	G	135.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20162	chrY	13367152	.	G	C	93.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20163	chrY	13367734	.	A	G	247.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20164	chrY	13367763	.	C	T	823.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20165	chrY	13367768	.	C	T	821.39	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20166	chrY	13367769	.	A	G	824.39	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20167	chrY	13367774	.	A	G	702.40	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20168	chrY	13367918	.	A	G	2408.24	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
20169	chrY	13367942	.	C	T	3857.77	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
20170	chrY	13367946	.	G	C	1931.05	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
20171	chrY	13367966	.	C	A	2269.61	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
20172	chrY	13367986	.	A	C	6391.59	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
20173	chrY	13368049	.	A	G	1157.87	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
20174	chrY	13368087	.	G	A	140.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20175	chrY	13368146	.	A	G	120.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20176	chrY	13368177	.	G	A	104.29	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
20177	chrY	13368271	.	C	T	144.19	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
20178	chrY	13368433	.	G	A	1474.18	PASS	AC=6;AF=0.333;AN=18;DP=201;FS=0.0
20179	chrY	13368645	.	G	A	41.86	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20180	chrY	13368646	.	C	G	41.86	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20181	chrY	13368751	.	T	C	54.52	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
20182	chrY	13368768	.	G	T	67.53	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
20183	chrY	13369447	.	G	A	56.76	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
20184	chrY	13369493	.	T	A	103.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20185	chrY	13369622	.	C	G	782.68	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20186	chrY	13369633	.	T	G	1558.63	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20187	chrY	13369638	.	G	A	1434.59	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20188	chrY	13369641	.	A	T	1364.55	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20189	chrY	13369745	.	C	G	92.46	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20190	chrY	13369909	.	C	T	1249.82	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
20191	chrY	13369920	.	T	C	1219.66	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
20192	chrY	13369958	.	T	C	128.19	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
20193	chrY	13369989	.	G	A	746.35	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
20194	chrY	13370136	.	G	T	124.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20195	chrY	13370192	.	G	A	187.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20196	chrY	13370232	.	C	T	449.90	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
20197	chrY	13370269	.	C	A	562.04	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
20198	chrY	13370306	.	G	A	841.55	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
20199	chrY	13370343	.	T	C	396.23	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
20200	chrY	13370349	.	C	T	336	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
20201	chrY	13370396	.	C	G	42.94	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
20202	chrY	13370417	.	G	C	89.79	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
20203	chrY	13370465	.	C	A	95.73	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
20204	chrY	13370755	.	A	G	79.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20205	chrY	13370785	.	T	C	89.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20206	chrY	13370790	.	G	A	86.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20207	chrY	13370792	.	C	G	88.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20208	chrY	13370815	.	G	A	40.40	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
20209	chrY	13370823	.	G	C	52.58	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
20210	chrY	13370840	.	A	G	112.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20211	chrY	13370842	.	C	T	94.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20212	chrY	13371027	.	C	T	1588.32	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
20213	chrY	13371572	.	C	T	13972.91	PASS	AC=68;AF=1.00;AN=68;DP=47
20214	chrY	13371924	.	A	G	728.88	my_snp_filter	AC=11;AF=0.157;AN=70;Base
20215	chrY	13371945	.	T	C	1999.97	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
20216	chrY	13371958	.	T	C	2208.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=

20217	chrY	13372033	.	C	T	806.38	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
20218	chrY	13372045	.	A	G	659.68	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
20219	chrY	13372077	.	T	C	1500.30	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
20220	chrY	13372096	.	A	G	1671.10	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
20221	chrY	13372121	.	C	A	1173.44	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
20222	chrY	13372132	.	G	T	75.66	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
20223	chrY	13372133	.	G	A	645.33	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
20224	chrY	13372160	.	C	A	223.89	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
20225	chrY	13372165	.	A	C	868.90	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
20226	chrY	13372170	.	C	G	853.89	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
20227	chrY	13372190	.	C	T	1146.42	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=
20228	chrY	13372216	.	A	C	520.71	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
20229	chrY	13372243	.	C	T	1514.64	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
20230	chrY	13372245	.	T	A	1505.46	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
20231	chrY	13372254	.	G	A	1233.61	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
20232	chrY	13372265	.	C	A	1329.63	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
20233	chrY	13372270	.	C	A	1113.35	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
20234	chrY	13372279	.	G	A	1855.62	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
20235	chrY	13372286	.	T	A	1729.56	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
20236	chrY	13372336	.	G	C	691.01	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
20237	chrY	13372390	.	C	A	139.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20238	chrY	13372413	.	A	T	887.86	my_snp_filter	AC=11;AF=0.157;AN=70;Base
20239	chrY	13372426	.	A	C	2499.45	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
20240	chrY	13372435	.	T	C	2668.84	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
20241	chrY	13372460	.	T	C	30.56	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
20242	chrY	13372471	.	A	G	119.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
20243	chrY	13372520	.	A	G	10671.27	PASS	AC=28;AF=0.400;AN=70;Base
20244	chrY	13372539	.	T	C	6354.23	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
20245	chrY	13372540	.	G	A	7217.52	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
20246	chrY	13372542	.	T	C,A	6221.31	PASS	AC=21,1;AF=0.300,0.014;AN=70;Base
20247	chrY	13372558	.	A	G	4938.99	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
20248	chrY	13372564	.	A	T	1863.35	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
20249	chrY	13372572	.	C	T	681.80	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
20250	chrY	13372602	.	T	G	4017.79	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
20251	chrY	13372625	.	C	T,G	1918.81	PASS	AC=13,3;AF=0.186,0.043;AN=70;Base
20252	chrY	13372626	.	C	A	62.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
20253	chrY	13372633	.	C	T	2101.01	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
20254	chrY	13372652	.	T	C	348.82	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20255	chrY	13372668	.	A	G	362.74	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
20256	chrY	13372671	.	T	A	311.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20257	chrY	13372688	.	G	T	518.56	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
20258	chrY	13372696	.	C	T	459.92	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20259	chrY	13372712	.	G	T	209.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20260	chrY	13372713	.	C	T	111.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20261	chrY	13372716	.	A	G	130.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20262	chrY	13372722	.	T	C	61.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
20263	chrY	13372725	.	A	C	52.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20264	chrY	13372815	.	C	T	950.39	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
20265	chrY	13372858	.	G	T	1725.31	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
20266	chrY	13372863	.	C	G	30.88	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
20267	chrY	13372868	.	C	T	1827.86	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
20268	chrY	13372881	.	A	G	3197.14	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
20269	chrY	13372888	.	G	T	337.56	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
20270	chrY	13372895	.	T	G	1004.54	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
20271	chrY	13372900	.	T	A	1023.94	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
20272	chrY	13372918	.	C	A	636.21	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
20273	chrY	13372919	.	T	A	2521.57	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
20274	chrY	13372920	.	T	A	2479.57	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
20275	chrY	13372939	.	T	G	628.86	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
20276	chrY	13372952	.	G	C	2709.13	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum=
20277	chrY	13372964	.	T	C	574.89	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
20278	chrY	13372972	.	G	A	2888.92	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum=
20279	chrY	13373000	.	C	T	95.31	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
20280	chrY	13373004	.	C	T	1246.86	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
20281	chrY	13373021	.	C	A	126.44	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
20282	chrY	13373047	.	T	C	208.56	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
20283	chrY	13373054	.	T	C	393.50	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
20284	chrY	13373099	.	G	A	83.71	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
20285	chrY	13373101	.	T	G	241.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20286	chrY	13373252	.	C	T	58.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20287	chrY	13373253	.	A	G	59.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20288	chrY	13373257	.	G	A	61.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20289	chrY	13373263	.	G	A	61.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20290	chrY	13373295	.	C	A	64.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
20291	chrY	13373296	.	C	T	180.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20292	chrY	13373300	.	T	A	135.96	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=

20293	chrY	13373302	.	A	G	270.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20294	chrY	13373305	.	T	C	279.60	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
20295	chrY	13373306	.	G	A	183.60	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
20296	chrY	13373367	.	A	T	121.89	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
20297	chrY	13373395	.	A	G	271.86	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
20298	chrY	13373396	.	T	C	210.66	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
20299	chrY	13373527	.	A	G	1579.75	PASS	AC=6;AF=0.333;AN=18;DP=143;FS=0.0
20300	chrY	13373537	.	A	T	1607.91	PASS	AC=6;AF=0.300;AN=20;DP=147;FS=0.0
20301	chrY	13373588	.	T	C	67.87	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20302	chrY	13373590	.	C	T	67.89	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20303	chrY	13373822	.	C	T	50.60	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
20304	chrY	13373834	.	A	T	46.23	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
20305	chrY	13373900	.	C	A	62.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20306	chrY	13373903	.	A	C	305.07	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
20307	chrY	13373913	.	A	G	72.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
20308	chrY	13373923	.	G	A	137.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20309	chrY	13373924	.	T	G	137.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20310	chrY	13373932	.	G	A	1287.71	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
20311	chrY	13373969	.	A	T	785.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
20312	chrY	13373980	.	G	A	817.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
20313	chrY	13373986	.	G	A	2378.93	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20314	chrY	13373992	.	C	A	591.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
20315	chrY	13373996	.	G	A	848.12	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
20316	chrY	13374029	.	A	G	809.05	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
20317	chrY	13374037	.	C	T	795.95	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
20318	chrY	13374043	.	A	G	72.32	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
20319	chrY	13374053	.	A	G	718.32	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
20320	chrY	13374066	.	G	A	45.63	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
20321	chrY	13374072	.	A	T,G	852.34	PASS	AC=3,5;AF=0.063,0.104;AN=48;BaseQ
20322	chrY	13374073	.	A	C	1411.98	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
20323	chrY	13374083	.	T	A	377.48	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
20324	chrY	13374084	.	C	G	961.04	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
20325	chrY	13374116	.	A	G	703.25	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
20326	chrY	13374125	.	G	C	197.99	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20327	chrY	13374134	.	C	T	1550.61	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
20328	chrY	13374144	.	T	C	230.59	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
20329	chrY	13374158	.	C	A	212.17	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20330	chrY	13374181	.	G	A	978.87	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20331	chrY	13374182	.	C	T	525.84	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
20332	chrY	13374217	.	G	C	337.68	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
20333	chrY	13374234	.	T	G	283.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20334	chrY	13374247	.	A	T	292.91	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20335	chrY	13374256	.	C	A	63.08	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20336	chrY	13374265	.	A	G	612.49	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20337	chrY	13374269	.	A	C	136.23	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20338	chrY	13374271	.	G	A,C	315.05	PASS	AC=2,3;AF=0.100,0.150;AN=20;BaseQ
20339	chrY	13374273	.	A	C	185.73	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20340	chrY	13374275	.	A	C	78.14	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20341	chrY	13374279	.	A	C	31.34	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20342	chrY	13374281	.	A	C	42.36	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
20343	chrY	13374367	.	C	A	163.04	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
20344	chrY	13374406	.	C	T	1110.74	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
20345	chrY	13374445	.	T	G	4877.72	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
20346	chrY	13374446	.	C	T	4977.79	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
20347	chrY	13374451	.	A	C	5828.48	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
20348	chrY	13374462	.	T	G	105.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20349	chrY	13374468	.	A	G	6815.91	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
20350	chrY	13374485	.	C	T	7294.74	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
20351	chrY	13374494	.	A	G	212.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
20352	chrY	13374496	.	A	G	7067.99	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
20353	chrY	13374501	.	T	C	6792.43	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
20354	chrY	13374539	.	C	A	3424.28	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
20355	chrY	13374572	.	C	G	2300.39	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
20356	chrY	13374622	.	C	G	4032.65	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
20357	chrY	13374681	.	A	T	1675.71	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
20358	chrY	13374774	.	T	G	610.39	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
20359	chrY	13374833	.	G	C	70.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
20360	chrY	13374943	.	A	G	88.98	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
20361	chrY	13374968	.	A	G	143.58	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
20362	chrY	13374973	.	C	A	45	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
20363	chrY	13374987	.	C	T	573.05	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
20364	chrY	13374988	.	C	A	572.50	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
20365	chrY	13375031	.	A	C	962.52	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
20366	chrY	13375046	.	A	G	943.91	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
20367	chrY	13375047	.	C	T	946.95	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
20368	chrY	13375065	.	C	A	655.41	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=

20369	chrY	13375070	.	G	C	573.59	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
20370	chrY	13375095	.	G	A	113.45	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
20371	chrY	13375119	.	A	C	618.90	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
20372	chrY	13375145	.	T	C	545.37	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
20373	chrY	13375167	.	C	A	197.54	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
20374	chrY	13375172	.	C	T	570.71	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
20375	chrY	13375173	.	G	C	566.90	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
20376	chrY	13375186	.	G	A	598.14	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQ
20377	chrY	13375210	.	T	G	1012.33	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
20378	chrY	13375310	.	C	T	46.50	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20379	chrY	13375402	.	C	T	134.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20380	chrY	13375403	.	C	G	255.10	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20381	chrY	13375404	.	C	A	87.95	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20382	chrY	13375409	.	C	T	79.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20383	chrY	13375415	.	G	T	823.73	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20384	chrY	13375465	.	T	C	937.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20385	chrY	13375468	.	T	A	943.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20386	chrY	13375484	.	G	A	4887.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20387	chrY	13375486	.	T	A	4917.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20388	chrY	13375494	.	A	T	2673.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20389	chrY	13375511	.	C	G	163.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20390	chrY	13375515	.	C	G	1778.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20391	chrY	13375609	.	G	A	1007.53	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20392	chrY	13375617	.	G	A	2071.78	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20393	chrY	13375625	.	C	T	1015.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20394	chrY	13375630	.	C	A	2836.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20395	chrY	13375637	.	G	A	463.80	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20396	chrY	13375639	.	G	T	487.45	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20397	chrY	13375652	.	G	A	852.46	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20398	chrY	13375659	.	A	C	880.55	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20399	chrY	13375664	.	C	T	249.99	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
20400	chrY	13375706	.	A	T	51.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20401	chrY	13375709	.	C	T	719.02	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20402	chrY	13375712	.	C	G	773.84	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20403	chrY	13375723	.	T	C	1865.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
20404	chrY	13375725	.	C	T	1236.55	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20405	chrY	13375726	.	G	T	424.07	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20406	chrY	13375727	.	A	G	463.84	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20407	chrY	13375755	.	C	G,T	619.40	PASS	AC=2,1;AF=0.100,0.050;AN=20;BaseQ
20408	chrY	13375756	.	G	A	352.46	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20409	chrY	13375779	.	A	G	413.65	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20410	chrY	13375804	.	A	G	345.86	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
20411	chrY	13375817	.	C	T	221.68	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20412	chrY	13375848	.	T	G	359.08	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20413	chrY	13375994	.	A	G	767.07	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20414	chrY	13376007	.	A	G	264.77	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20415	chrY	13376009	.	C	T	329.76	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20416	chrY	13376017	.	A	C	301.56	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20417	chrY	13376801	.	A	G	89.69	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20418	chrY	13376803	.	G	A	91.22	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20419	chrY	13376815	.	C	A	33.74	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20420	chrY	13377033	.	A	G	31.44	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20421	chrY	13377050	.	A	G	386.34	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20422	chrY	13377076	.	G	A	58.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20423	chrY	13377077	.	T	C	57.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20424	chrY	13377091	.	C	A	512.88	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20425	chrY	13377096	.	T	C	516.27	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20426	chrY	13377178	.	G	T	141.29	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20427	chrY	13377179	.	A	G	140.72	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20428	chrY	13377376	.	C	A	106.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20429	chrY	13377381	.	C	T	281.86	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20430	chrY	13377552	.	T	C	96.08	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20431	chrY	13377588	.	C	T	47.06	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20432	chrY	13377609	.	G	A	47.31	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20433	chrY	13377611	.	A	T	543.44	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
20434	chrY	13377648	.	T	G	80.09	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20435	chrY	13377667	.	G	A	2106.46	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
20436	chrY	13377708	.	C	A	563.16	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20437	chrY	13377729	.	G	A	274.91	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20438	chrY	13377753	.	C	G	421.95	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
20439	chrY	13377758	.	C	T	715.75	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20440	chrY	13377774	.	T	C	8319.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20441	chrY	13377964	.	G	A	1403.70	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20442	chrY	13378005	.	A	C	184.88	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
20443	chrY	13378057	.	T	G	39.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
20444	chrY	13378091	.	C	T	100.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=

20445	chrY	13378111	.	C	T	47.21	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
20446	chrY	13378119	.	G	C	1799.83	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20447	chrY	13378120	.	C	T	1797.79	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20448	chrY	13378124	.	T	C	43.21	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
20449	chrY	13378144	.	C	A	68.49	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20450	chrY	13378145	.	C	T	65.71	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20451	chrY	13378154	.	C	T	100.78	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20452	chrY	13378194	.	G	A	88.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20453	chrY	13378198	.	T	A	110.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20454	chrY	13378242	.	T	C	489.56	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20455	chrY	13378250	.	G	A	323.46	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20456	chrY	13378255	.	A	G,T	335.10	my_snp_filter	AC=1,2;AF=0.050,0.100;AN=
20457	chrY	13378265	.	C	A	572.47	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20458	chrY	13378295	.	T	C	526.29	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20459	chrY	13378302	.	C	T	120.25	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20460	chrY	13378314	.	C	T	123.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20461	chrY	13378345	.	G	C	249.97	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20462	chrY	13378377	.	A	G	446.60	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20463	chrY	13378398	.	A	G	237.71	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20464	chrY	13378482	.	C	G	207.31	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20465	chrY	13378543	.	T	A	1627.06	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20466	chrY	13378549	.	A	G	1623.40	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20467	chrY	13378555	.	T	C	165.05	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20468	chrY	13378605	.	A	T	44.88	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
20469	chrY	13378654	.	T	A	251.74	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
20470	chrY	13378658	.	A	G	417.87	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
20471	chrY	13378664	.	G	T	224.80	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
20472	chrY	13378665	.	C	A	224.80	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
20473	chrY	13379197	.	C	T	619.75	PASS	AC=2;AF=0.100;AN=20;DP=190;FS=0.0
20474	chrY	13379399	.	A	G	277.15	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20475	chrY	13379420	.	G	A	502.44	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
20476	chrY	13379450	.	C	A	90.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20477	chrY	13379460	.	A	G	90.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20478	chrY	13379472	.	G	A	721.34	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20479	chrY	13379486	.	A	G	1953.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20480	chrY	13379491	.	A	G	161.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20481	chrY	13379540	.	G	T	141.17	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20482	chrY	13379541	.	C	T	815.92	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20483	chrY	13379546	.	C	T	3303.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20484	chrY	13379551	.	T	A	1111.87	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20485	chrY	13379655	.	T	C	1691.29	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20486	chrY	13379667	.	T	C	4199.54	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20487	chrY	13379729	.	G	A	480.49	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20488	chrY	13379762	.	T	A	534.66	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20489	chrY	13379763	.	G	C	1695.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20490	chrY	13379768	.	G	A	9309.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20491	chrY	13379781	.	G	A	1389.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20492	chrY	13379832	.	T	C	2373.64	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20493	chrY	13379833	.	T	C	1072.78	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20494	chrY	13379837	.	C	T	1447.95	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20495	chrY	13379846	.	T	A	2887.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20496	chrY	13379859	.	A	T	1627.86	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20497	chrY	13379865	.	C	T	1261.19	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20498	chrY	13379904	.	C	T	2812.50	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20499	chrY	13379905	.	C	G	2712.75	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20500	chrY	13379908	.	T	C	114.80	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20501	chrY	13379939	.	G	C	3445.15	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20502	chrY	13379990	.	A	G	3962.45	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20503	chrY	13379991	.	C	G	232.05	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20504	chrY	13379995	.	T	C	3763.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20505	chrY	13379998	.	G	T	234.90	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
20506	chrY	13380056	.	G	A	1295.61	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20507	chrY	13380078	.	T	C	1388.07	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20508	chrY	13380084	.	T	C	623.27	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20509	chrY	13380086	.	C	A	621.85	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20510	chrY	13380115	.	T	G	428.47	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
20511	chrY	13380154	.	C	T	1352.98	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20512	chrY	13380188	.	G	A	2816.83	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20513	chrY	13380191	.	A	G	6930.87	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
20514	chrY	13380205	.	G	T	994.08	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20515	chrY	13380274	.	C	T	3440.28	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20516	chrY	13380303	.	T	C	1249.23	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20517	chrY	13380306	.	T	C	827.10	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
20518	chrY	13380313	.	T	A	209.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
20519	chrY	13380319	.	G	T	210.07	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
20520	chrY	13380339	.	G	T	6130.42	PASS	AC=12;AF=0.500;AN=24;BaseQRankSum=

20521	chrY	13380361	.	A	C	7514.25	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum=
20522	chrY	13380366	.	T	A	228.64	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
20523	chrY	13380370	.	C	G	8092.41	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
20524	chrY	13380399	.	G	A	233.96	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
20525	chrY	13380409	.	G	T	7122.83	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
20526	chrY	13380428	.	G	A	5956.97	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20527	chrY	13380476	.	A	G	4212.27	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20528	chrY	13380499	.	T	C	3938.60	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20529	chrY	13380511	.	A	G	124.53	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20530	chrY	13380516	.	A	G	2757.93	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20531	chrY	13380532	.	G	A	2751.68	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20532	chrY	13380546	.	C	T	2297	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20533	chrY	13380548	.	G	C	211.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20534	chrY	13380561	.	A	G	2206.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20535	chrY	13380595	.	T	C	1457.90	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20536	chrY	13380598	.	C	T	1440.91	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20537	chrY	13380604	.	C	A	33.36	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
20538	chrY	13380619	.	T	C	576.56	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20539	chrY	13380954	.	T	C	71.64	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20540	chrY	13381043	.	A	G	441.69	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20541	chrY	13381058	.	T	C	175.84	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20542	chrY	13381121	.	C	T	432.83	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20543	chrY	13381125	.	C	T	435.83	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20544	chrY	13381137	.	C	T	135.07	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20545	chrY	13381152	.	C	T	438.33	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20546	chrY	13381206	.	A	G,T	1223.42	my_snp_filter	AC=5,2;AF=0.250,0.100;AN=
20547	chrY	13381209	.	T	C	1218.22	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
20548	chrY	13381225	.	A	G	887.01	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20549	chrY	13381258	.	A	T	270.71	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
20550	chrY	13381284	.	G	A	488.47	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
20551	chrY	13381289	.	G	A	400.73	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
20552	chrY	13382190	.	C	T	284.48	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20553	chrY	13382198	.	T	C	284.06	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20554	chrY	13382451	.	A	G	81.28	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
20555	chrY	13382473	.	T	G	119.98	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20556	chrY	13382478	.	T	C	426.43	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20557	chrY	13382487	.	T	C	108.06	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20558	chrY	13382488	.	G	A	371.05	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20559	chrY	13382511	.	A	G	424.70	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20560	chrY	13382570	.	C	T	587.14	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20561	chrY	13382596	.	T	A	101.50	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20562	chrY	13382622	.	C	T	92.54	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20563	chrY	13382674	.	C	T	53.62	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20564	chrY	13382676	.	C	G	206.55	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
20565	chrY	13382697	.	C	T	104.42	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20566	chrY	13382704	.	C	T	68.07	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20567	chrY	13382706	.	T	C	66.86	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20568	chrY	13382712	.	T	C	489.42	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20569	chrY	13382843	.	T	G	326.98	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20570	chrY	13382874	.	G	A	488.53	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20571	chrY	13382915	.	G	A	283.01	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20572	chrY	13382928	.	T	C	226.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20573	chrY	13382931	.	A	G	304.08	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20574	chrY	13382963	.	G	A	2781.78	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20575	chrY	13382969	.	T	G	211.40	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
20576	chrY	13382973	.	C	T	1004.23	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
20577	chrY	13382987	.	C	A,T	3200.90	PASS	AC=4,8;AF=0.182,0.364;AN=22;BaseQ
20578	chrY	13382996	.	C	T	126.26	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20579	chrY	13383047	.	C	T	1343.35	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
20580	chrY	13383050	.	T	C	74.95	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
20581	chrY	13383062	.	A	G	41.32	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
20582	chrY	13383095	.	T	G	1690.88	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20583	chrY	13383111	.	A	C	1526.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20584	chrY	13383123	.	G	A	912.79	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20585	chrY	13383151	.	A	C	1248.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
20586	chrY	13383213	.	A	C	297.91	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
20587	chrY	13383224	.	A	G	855.34	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20588	chrY	13383230	.	A	G	4607.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20589	chrY	13383232	.	C	T	312.28	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
20590	chrY	13383256	.	C	T	307.79	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20591	chrY	13383279	.	T	G	48.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20592	chrY	13383296	.	G	C	1618.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20593	chrY	13383329	.	T	C	1017.38	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
20594	chrY	13383334	.	T	A	33.53	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
20595	chrY	13383339	.	T	G	34.01	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
20596	chrY	13383342	.	T	C	57.01	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=

20597	chrY	13383403	.	G	A	1263.92	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
20598	chrY	13383407	.	A	G	223.18	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
20599	chrY	13383436	.	A	C	734.04	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
20600	chrY	13383440	.	G	C	92.33	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
20601	chrY	13383442	.	A	G	92.33	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
20602	chrY	13383478	.	T	C	135.68	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
20603	chrY	13383479	.	G	A	132.93	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
20604	chrY	13383491	.	T	G	944.68	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
20605	chrY	13383492	.	G	C,A	1774.98	PASS	AC=3,5;AF=0.125,0.208;AN=24;BaseQ
20606	chrY	13383498	.	G	T	157.74	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
20607	chrY	13383525	.	C	G	1108.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
20608	chrY	13383604	.	C	A	1730.55	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20609	chrY	13383638	.	C	G	2164.71	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
20610	chrY	13383653	.	A	T	3441.72	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
20611	chrY	13383674	.	T	C	155.77	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
20612	chrY	13383797	.	C	A	797.67	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20613	chrY	13383809	.	C	A	31.01	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20614	chrY	13383811	.	T	C	32.15	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20615	chrY	13383814	.	T	G	570.59	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20616	chrY	13383826	.	C	T	333.50	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
20617	chrY	13383849	.	A	G	320.19	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20618	chrY	13383855	.	G	A	275.81	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20619	chrY	13383943	.	T	C	34.05	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20620	chrY	13383955	.	T	C	43.52	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20621	chrY	13383967	.	G	A	1871.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
20622	chrY	13383977	.	G	A	58.93	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20623	chrY	13383987	.	C	T	43.64	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20624	chrY	13384075	.	A	C	39.37	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20625	chrY	13384105	.	C	T	677.62	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20626	chrY	13384116	.	C	A	375.84	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20627	chrY	13384176	.	G	T	811.17	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
20628	chrY	13384181	.	C	T	564	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
20629	chrY	13384196	.	T	A	540.81	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20630	chrY	13384222	.	C	A	193.24	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
20631	chrY	13384249	.	G	A	1741	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
20632	chrY	13384255	.	T	C	272.38	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
20633	chrY	13384260	.	A	G	2764.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20634	chrY	13384261	.	C	G	769.63	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
20635	chrY	13384263	.	G	A	2601.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20636	chrY	13384269	.	G	C	1206.56	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20637	chrY	13384276	.	T	C	1019.61	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
20638	chrY	13384292	.	A	G	1748.33	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
20639	chrY	13384339	.	G	T	55.19	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
20640	chrY	13384351	.	A	T	114.36	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
20641	chrY	13384364	.	G	A	74.56	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
20642	chrY	13384370	.	G	A	117.96	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
20643	chrY	13384381	.	A	T	210.78	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
20644	chrY	13384401	.	C	G	1029.08	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
20645	chrY	13384404	.	A	G	2375.19	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
20646	chrY	13384456	.	C	A	736.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20647	chrY	13384469	.	C	T	904.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
20648	chrY	13384524	.	G	A	250.56	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20649	chrY	13384541	.	T	G	438.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20650	chrY	13384548	.	T	C	312.58	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
20651	chrY	13384641	.	G	C	56.85	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
20652	chrY	13384690	.	C	T	537.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
20653	chrY	13384755	.	A	C	771.12	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
20654	chrY	13384809	.	G	A	1595.41	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
20655	chrY	13384812	.	G	A	1289.99	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
20656	chrY	13384813	.	G	A	606.56	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
20657	chrY	13384833	.	C	T	1179.48	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
20658	chrY	13384844	.	A	G	1350.80	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
20659	chrY	13384851	.	G	T	1372.01	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
20660	chrY	13384854	.	C	T	70.73	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
20661	chrY	13384855	.	A	C	3352.48	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQ
20662	chrY	13384865	.	A	C	351.46	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQ
20663	chrY	13384873	.	T	C	205	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
20664	chrY	13384877	.	C	T	1511.48	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
20665	chrY	13384933	.	G	A	1961.24	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
20666	chrY	13384937	.	A	G	1877.25	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
20667	chrY	13384939	.	T	C	42.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
20668	chrY	13384954	.	T	C	265.80	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20669	chrY	13384980	.	C	T	307.23	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20670	chrY	13384985	.	G	A	716.24	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
20671	chrY	13385005	.	T	A	2759.87	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20672	chrY	13385021	.	A	G	133.82	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ

20673	chrY	13385035	.	T	A	266.83	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20674	chrY	13385044	.	T	C	161.93	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20675	chrY	13385047	.	A	G	231.99	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20676	chrY	13385078	.	G	A	182.83	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20677	chrY	13385097	.	A	G	899.78	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20678	chrY	13385101	.	G	A	206.47	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20679	chrY	13385103	.	C	T	1258.90	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20680	chrY	13385104	.	C	T	54.65	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20681	chrY	13385108	.	T	C	1061.45	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
20682	chrY	13385128	.	T	G	236.79	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20683	chrY	13385142	.	C	A,*	434.79	PASS	AC=1,2;AF=0.056,0.111;AN=18;BaseQ
20684	chrY	13385153	.	A	G	251.31	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20685	chrY	13385183	.	C	T	1888.50	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20686	chrY	13385207	.	T	C	1991.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20687	chrY	13385218	.	G	A	1714.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20688	chrY	13385219	.	A	G	1886.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20689	chrY	13385226	.	C	T	48.46	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20690	chrY	13385246	.	T	A	53.27	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
20691	chrY	13385286	.	A	C	61.68	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
20692	chrY	13385515	.	G	A	238	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
20693	chrY	13385518	.	C	T	235.62	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
20694	chrY	13385519	.	T	G	235.71	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
20695	chrY	13385537	.	T	C	170.47	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
20696	chrY	13385560	.	A	T	283.32	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
20697	chrY	13385597	.	A	T	168.64	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
20698	chrY	13385598	.	G	A	168.33	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
20699	chrY	13385624	.	T	C	94.62	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
20700	chrY	13385641	.	T	A	50.21	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20701	chrY	13385665	.	T	C	51.45	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20702	chrY	13385669	.	C	A	50.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20703	chrY	13385679	.	G	A	46.65	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20704	chrY	13385702	.	A	G	44.47	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20705	chrY	13385998	.	A	G	155.87	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
20706	chrY	13386001	.	G	A	139.62	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
20707	chrY	13386003	.	C	T	139.56	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
20708	chrY	13386012	.	C	T	175.96	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
20709	chrY	13386024	.	C	A	102.31	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
20710	chrY	13386038	.	T	A	252.62	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
20711	chrY	13386045	.	G	T	160.93	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
20712	chrY	13386049	.	C	T	161.39	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
20713	chrY	13386163	.	G	A	48.35	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
20714	chrY	13386168	.	T	A	68.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
20715	chrY	13386176	.	A	T	143.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
20716	chrY	13386199	.	A	T	369.93	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
20717	chrY	13386200	.	T	C	569.86	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
20718	chrY	13386214	.	G	C	363.76	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
20719	chrY	13386219	.	C	T	422.72	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
20720	chrY	13386238	.	G	T	758.29	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
20721	chrY	13386286	.	T	C	211.94	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
20722	chrY	13386295	.	C	T	379.35	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
20723	chrY	13386325	.	C	T	520.12	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
20724	chrY	13386333	.	A	T	429.81	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
20725	chrY	13386335	.	T	G	430.13	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
20726	chrY	13386338	.	T	C	355.78	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
20727	chrY	13386342	.	G	C	232.09	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
20728	chrY	13386347	.	A	C	179.54	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
20729	chrY	13386429	.	T	C	1900.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20730	chrY	13386445	.	C	T	280.91	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20731	chrY	13386466	.	A	T	1378.45	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
20732	chrY	13386467	.	C	T	1314.99	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
20733	chrY	13386490	.	A	G	823.56	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
20734	chrY	13386554	.	T	C	511.43	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20735	chrY	13386555	.	G	A	351.40	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20736	chrY	13386577	.	T	A	197.65	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20737	chrY	13386656	.	T	C	667.53	PASS	AC=8;AF=0.400;AN=20;DP=138;FS=0.0
20738	chrY	13386761	.	C	G	6298.33	PASS	AC=56;AF=1.00;AN=56;DP=217;FS=0.0
20739	chrY	13387448	.	C	T	45.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
20740	chrY	13387481	.	C	T	2668.12	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
20741	chrY	13387519	.	C	T	4513.91	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
20742	chrY	13387604	.	A	G	1368.77	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
20743	chrY	13387967	.	A	C	38.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20744	chrY	13387972	.	T	G	42.06	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20745	chrY	13388002	.	T	A	51.54	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20746	chrY	13388081	.	G	A	44.16	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20747	chrY	13388083	.	A	C	540.94	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
20748	chrY	13388103	.	A	G	1173.26	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=

20749	chrY	13388173	.	T	C	1232.92	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20750	chrY	13388195	.	A	T	1378.27	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
20751	chrY	13388218	.	A	C	2233.08	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
20752	chrY	13388227	.	A	G	339.43	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
20753	chrY	13388232	.	A	G	55.34	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
20754	chrY	13388239	.	G	C	402.17	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
20755	chrY	13388248	.	G	C	112.08	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
20756	chrY	13388268	.	C	A	60.13	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
20757	chrY	13388297	.	T	C	1470.63	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
20758	chrY	13388559	.	A	T	56.42	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
20759	chrY	13388564	.	A	T	50.99	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
20760	chrY	13388574	.	G	T	51.83	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
20761	chrY	13388681	.	A	G	4139.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
20762	chrY	13388708	.	A	G	235.14	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
20763	chrY	13388804	.	C	T	92.83	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20764	chrY	13389378	.	A	C	223.50	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20765	chrY	13389387	.	C	G	56.08	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20766	chrY	13389453	.	A	T	101.32	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20767	chrY	13389465	.	C	T	79.82	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20768	chrY	13389468	.	A	G	68.19	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20769	chrY	13389473	.	A	G	62.52	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20770	chrY	13389479	.	G	A	171.35	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
20771	chrY	13389495	.	A	G	74.56	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
20772	chrY	13389509	.	G	C	71.86	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
20773	chrY	13389529	.	T	C	55.30	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20774	chrY	13389543	.	T	C	53.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20775	chrY	13389544	.	A	G	189.65	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20776	chrY	13389561	.	G	A	84.95	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20777	chrY	13389569	.	C	T	81.80	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20778	chrY	13389607	.	C	T	185.95	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20779	chrY	13389610	.	C	T	186.28	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20780	chrY	13389641	.	G	A	232.97	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20781	chrY	13389646	.	A	G	235.72	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20782	chrY	13389666	.	T	C	195.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20783	chrY	13389680	.	A	G	180.33	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20784	chrY	13389797	.	A	C	159.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20785	chrY	13389799	.	T	C	299.91	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20786	chrY	13389808	.	T	C	343.65	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20787	chrY	13389839	.	G	A	412.40	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20788	chrY	13389920	.	C	T	158.13	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20789	chrY	13389922	.	C	T	385.06	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
20790	chrY	13389929	.	A	G	1206.05	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20791	chrY	13389937	.	C	T	90.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20792	chrY	13389941	.	G	A	88.28	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
20793	chrY	13389943	.	A	G	87.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20794	chrY	13389947	.	T	C	1426.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
20795	chrY	13389966	.	G	A	56.09	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20796	chrY	13389968	.	G	A	262.36	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20797	chrY	13389990	.	A	G,*	665.42	PASS	AC=2,2;AF=0.091,0.091;AN=22;BaseQ
20798	chrY	13390004	.	A	T	105.81	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
20799	chrY	13390022	.	G	A	798.12	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
20800	chrY	13390026	.	G	A	276.98	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
20801	chrY	13390027	.	C	G	128.56	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
20802	chrY	13390070	.	C	T	2944.44	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
20803	chrY	13390071	.	A	G	2930.90	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
20804	chrY	13390078	.	C	T	3493.62	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
20805	chrY	13390080	.	T	C	45.35	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
20806	chrY	13390081	.	T	C	33.97	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
20807	chrY	13390106	.	G	A	10919.87	PASS	AC=13;AF=0.542;AN=24;BaseQ
20808	chrY	13390113	.	C	G	466.29	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQ
20809	chrY	13390120	.	A	G	101.65	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
20810	chrY	13390140	.	G	T	7482.71	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
20811	chrY	13390144	.	C	T	7534.02	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
20812	chrY	13390154	.	G	A	196.24	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
20813	chrY	13390187	.	G	C	3026.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
20814	chrY	13390218	.	G	A	118.37	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
20815	chrY	13390244	.	T	A	125.93	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20816	chrY	13390259	.	C	A	507.80	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20817	chrY	13390289	.	T	G	337.63	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
20818	chrY	13390291	.	C	T	73.94	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
20819	chrY	13390343	.	T	G	68.08	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20820	chrY	13390383	.	T	C	2921.19	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
20821	chrY	13390387	.	T	A	1967.21	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
20822	chrY	13390395	.	C	T	232.92	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
20823	chrY	13390397	.	C	T	2364.40	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
20824	chrY	13390446	.	G	T	152.13	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=

20825	chrY	13390456	.	C	G	151.84	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
20826	chrY	13390467	.	G	C	72.44	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
20827	chrY	13390469	.	G	A	1333.68	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQ
20828	chrY	13390479	.	G	A	129.76	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
20829	chrY	13390483	.	T	G	129.38	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
20830	chrY	13390502	.	C	G	1502.43	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
20831	chrY	13390510	.	C	T	1445.03	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
20832	chrY	13390542	.	T	C	1023.19	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
20833	chrY	13390546	.	C	T	797.56	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
20834	chrY	13390627	.	G	T	6803.27	PASS	AC=46;AF=0.657;AN=70;DP=428;FS=0
20835	chrY	13390795	.	C	A	189.64	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
20836	chrY	13390796	.	C	A	63.89	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
20837	chrY	13390797	.	G	A	186.33	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
20838	chrY	13390815	.	A	G	539.52	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
20839	chrY	13390927	.	G	T	253.50	PASS	AC=2;AF=0.034;AN=58;DP=198;FS=0.0
20840	chrY	13391146	.	G	A	53.65	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
20841	chrY	13391154	.	G	A	47.82	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
20842	chrY	13391651	.	C	T	46.79	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
20843	chrY	13391652	.	A	T	135.44	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
20844	chrY	13391697	.	T	C	33.07	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
20845	chrY	13391698	.	C	T	50.75	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
20846	chrY	13392071	.	A	T	140.18	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
20847	chrY	13392209	.	C	A	561.93	my_snp_filter	AC=6;AF=0.176;AN=34;BaseQ
20848	chrY	13392281	.	A	T	343.37	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
20849	chrY	13392324	.	C	G	519.10	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
20850	chrY	13392384	.	T	G	1046.95	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
20851	chrY	13392504	.	T	A	75.67	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
20852	chrY	13392517	.	T	A	2544.75	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
20853	chrY	13392646	.	G	T	248.01	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
20854	chrY	13392679	.	A	G	646.03	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
20855	chrY	13392688	.	A	G	71.01	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
20856	chrY	13392727	.	G	A	290.06	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
20857	chrY	13392747	.	A	G	719.71	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
20858	chrY	13392749	.	T	C	174.97	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
20859	chrY	13392776	.	A	G	305.81	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20860	chrY	13392782	.	G	A	301.13	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20861	chrY	13392858	.	A	C	66.89	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
20862	chrY	13392883	.	G	A	135.75	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
20863	chrY	13392904	.	G	A	213.28	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
20864	chrY	13392933	.	C	T	124.19	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
20865	chrY	13392940	.	T	C	336.83	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
20866	chrY	13392943	.	C	T	164.61	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
20867	chrY	13392947	.	T	C	7055.59	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
20868	chrY	13392965	.	A	C	8280.73	PASS	AC=12;AF=0.400;AN=30;BaseQRankSum=
20869	chrY	13392966	.	G	A	1448.49	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
20870	chrY	13392969	.	C	T	578.76	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
20871	chrY	13392995	.	G	A	117.86	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
20872	chrY	13393021	.	T	C	253.13	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
20873	chrY	13393035	.	A	G	1637.63	PASS	AC=13;AF=0.271;AN=48;BaseQRankSum=
20874	chrY	13393100	.	A	C	1085.78	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
20875	chrY	13393112	.	G	C	255.65	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
20876	chrY	13393115	.	C	G	226.18	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
20877	chrY	13393142	.	G	A	484.67	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
20878	chrY	13393149	.	G	A	113.53	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
20879	chrY	13393150	.	C	T	113.53	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
20880	chrY	13393154	.	G	T	122.40	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
20881	chrY	13393194	.	G	A	2891.28	PASS	AC=12;AF=0.400;AN=30;BaseQRankSum=
20882	chrY	13393204	.	A	G	3252.80	PASS	AC=12;AF=0.400;AN=30;BaseQRankSum=
20883	chrY	13393217	.	G	A	3011.81	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQ
20884	chrY	13393235	.	C	T	4953.11	PASS	AC=14;AF=0.467;AN=30;BaseQRankSum=
20885	chrY	13393242	.	G	A	70.01	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
20886	chrY	13393248	.	G	A	831.09	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
20887	chrY	13393250	.	G	T	831.09	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
20888	chrY	13393262	.	A	C	5819.20	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
20889	chrY	13393275	.	G	T	1041.90	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
20890	chrY	13393276	.	G	T	278.03	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
20891	chrY	13393281	.	G	C	935.95	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
20892	chrY	13393299	.	A	G	4864.21	my_snp_filter	AC=12;AF=0.286;AN=42;BaseQ
20893	chrY	13393303	.	C	A,T	2803.83	my_snp_filter	AC=9,3;AF=0.196,0.065;AN=
20894	chrY	13393318	.	A	G	1102.42	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
20895	chrY	13393324	.	G	A,T	1293.74	PASS	AC=6,6;AF=0.150,0.150;AN=40;BaseQ
20896	chrY	13393354	.	C	A	1184.97	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
20897	chrY	13393360	.	T	G	1172.87	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
20898	chrY	13393390	.	G	A	77.47	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
20899	chrY	13393395	.	T	C	731.71	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
20900	chrY	13393416	.	G	C	821.44	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=

20901	chrY	13393436	.	G	C	30.51	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
20902	chrY	13393446	.	G	C	427.09	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
20903	chrY	13393480	.	C	A	192.62	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
20904	chrY	13393485	.	C	T	51.62	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
20905	chrY	13394229	.	G	T	146.23	PASS	AC=4;AF=0.143;AN=28;DP=204;FS=0.0
20906	chrY	13395026	.	A	G	1335.66	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
20907	chrY	13395042	.	C	T	489.17	my_snp_filter	AC=8;AF=0.200;AN=40;BaseQ
20908	chrY	13395084	.	T	C	2428.79	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQ
20909	chrY	13395102	.	T	C	782.24	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
20910	chrY	13395147	.	G	A	126.21	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
20911	chrY	13395168	.	T	A	181.20	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
20912	chrY	13395173	.	G	C	203.04	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
20913	chrY	13395180	.	A	G	32.25	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
20914	chrY	13395183	.	A	G	3080.30	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
20915	chrY	13395184	.	G	A	2464.99	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
20916	chrY	13395189	.	G	T	2381.81	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
20917	chrY	13395196	.	A	T	252.59	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
20918	chrY	13395199	.	G	A	2491.81	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
20919	chrY	13395217	.	G	A	95.73	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
20920	chrY	13395224	.	C	G	2437.87	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
20921	chrY	13395229	.	G	C	39.58	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
20922	chrY	13395236	.	C	A	2475.33	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
20923	chrY	13395261	.	T	C	40.55	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
20924	chrY	13395279	.	G	T	110.10	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
20925	chrY	13395280	.	C	T	110.12	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
20926	chrY	13395287	.	G	A	117.73	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
20927	chrY	13395303	.	G	A	111.45	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
20928	chrY	13395368	.	A	G	101.85	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
20929	chrY	13395381	.	A	G	798.77	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
20930	chrY	13395384	.	T	G	170.38	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
20931	chrY	13395387	.	G	C	226.06	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
20932	chrY	13395389	.	C	T	128.18	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
20933	chrY	13395810	.	T	C	205.75	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20934	chrY	13395812	.	C	T	372.77	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
20935	chrY	13395826	.	G	A	371.94	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20936	chrY	13395933	.	A	C	731.21	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
20937	chrY	13395964	.	G	A	93.72	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
20938	chrY	13395980	.	G	C	2014.75	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
20939	chrY	13396002	.	C	T	500.17	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
20940	chrY	13396005	.	A	G,T	759.10	PASS	AC=2,5;AF=0.077,0.192;AN=26;BaseQ
20941	chrY	13396012	.	C	A	396.51	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
20942	chrY	13396058	.	C	G	1805.01	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
20943	chrY	13396127	.	A	C	713.23	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
20944	chrY	13396128	.	T	C	713.23	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
20945	chrY	13396172	.	G	T,C	6522.31	PASS	AC=8,1;AF=0.444,0.056;AN=18;BaseQ
20946	chrY	13396180	.	T	C	1977.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
20947	chrY	13396203	.	T	G	104.08	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
20948	chrY	13396208	.	T	A	8084.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20949	chrY	13396213	.	A	G	4508.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20950	chrY	13396215	.	A	T	419.61	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20951	chrY	13396229	.	G	A	88.35	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
20952	chrY	13396277	.	G	A	928.55	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
20953	chrY	13396285	.	C	G	738.04	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
20954	chrY	13396438	.	G	A	402.04	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
20955	chrY	13396472	.	A	G	364.37	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
20956	chrY	13396500	.	A	T	891.53	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
20957	chrY	13396521	.	G	A	99.46	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
20958	chrY	13396523	.	G	A	561.03	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
20959	chrY	13396530	.	A	G	53.45	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
20960	chrY	13396668	.	G	A	51.49	PASS	AC=2;AF=0.083;AN=24;DP=194;FS=0.0
20961	chrY	13396670	.	C	T	51.48	PASS	AC=2;AF=0.083;AN=24;DP=197;FS=0.0
20962	chrY	13396852	.	T	C	107.73	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
20963	chrY	13397005	.	A	G	75.17	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
20964	chrY	13397980	.	T	A	848.32	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
20965	chrY	13398025	.	T	C	8664.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
20966	chrY	13398045	.	C	T	162.64	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20967	chrY	13398064	.	G	T	2087.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20968	chrY	13398261	.	G	A	124.22	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20969	chrY	13398262	.	G	T	4386.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20970	chrY	13398274	.	A	G	45.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
20971	chrY	13398283	.	C	A	4641.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20972	chrY	13398303	.	A	T	426.30	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20973	chrY	13398311	.	G	T	519.28	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
20974	chrY	13398317	.	G	A	396.49	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
20975	chrY	13398319	.	C	A	98.96	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
20976	chrY	13398320	.	C	T	539.85	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=

20977	chrY	13398337	.	C	T	3188.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20978	chrY	13398353	.	C	A	965.28	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
20979	chrY	13398354	.	C	A	1746.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
20980	chrY	13398373	.	A	G	3129.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20981	chrY	13398387	.	T	A	4820.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20982	chrY	13398444	.	G	A	2145.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20983	chrY	13398457	.	A	C	2553.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
20984	chrY	13398511	.	C	T	366.32	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
20985	chrY	13398529	.	T	C	248.48	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
20986	chrY	13398598	.	C	T	267.74	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
20987	chrY	13398653	.	G	T	533.65	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
20988	chrY	13398677	.	C	T	367.14	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
20989	chrY	13398698	.	T	G	273.20	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
20990	chrY	13399147	.	T	C	118.13	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
20991	chrY	13399149	.	C	A	136.59	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
20992	chrY	13399152	.	G	C	137.18	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
20993	chrY	13399159	.	G	A	563.90	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
20994	chrY	13399167	.	A	G	2859.40	my_snp_filter	AC=21;AF=0.328;AN=64;Base
20995	chrY	13399182	.	C	A	1730.35	my_snp_filter	AC=21;AF=0.318;AN=66;Base
20996	chrY	13399198	.	C	T	2257.46	my_snp_filter	AC=21;AF=0.300;AN=70;Base
20997	chrY	13399206	.	G	C,T	840.94	PASS	AC=3,9;AF=0.043,0.129;AN=70;BaseQ
20998	chrY	13399220	.	A	G	598.75	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
20999	chrY	13399230	.	G	A	169.01	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21000	chrY	13399244	.	A	G	130.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21001	chrY	13399245	.	A	G	272.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21002	chrY	13399269	.	T	C	4201.73	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
21003	chrY	13399280	.	T	C	64.48	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21004	chrY	13399286	.	G	A	383.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
21005	chrY	13399294	.	A	C	18759.31	PASS	AC=29;AF=0.414;AN=70;Base
21006	chrY	13399301	.	C	G	20366.35	PASS	AC=32;AF=0.457;AN=70;Base
21007	chrY	13399306	.	A	G	10009.84	PASS	AC=22;AF=0.314;AN=70;Base
21008	chrY	13399334	.	C	T	11399.45	PASS	AC=28;AF=0.400;AN=70;Base
21009	chrY	13399342	.	C	T	10919.45	PASS	AC=28;AF=0.400;AN=70;Base
21010	chrY	13399362	.	C	T	475.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21011	chrY	13399371	.	C	A	23595.72	PASS	AC=35;AF=0.500;AN=70;Base
21012	chrY	13399400	.	G	A	2109.68	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
21013	chrY	13399415	.	G	C	3668.93	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21014	chrY	13399425	.	C	T	609.62	my_snp_filter	AC=13;AF=0.186;AN=70;Base
21015	chrY	13399453	.	T	C	102.92	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
21016	chrY	13399458	.	C	G	2973.50	my_snp_filter	AC=21;AF=0.309;AN=68;Base
21017	chrY	13399490	.	C	G	419.24	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
21018	chrY	13399509	.	G	A	137	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
21019	chrY	13399525	.	C	G	2286.68	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
21020	chrY	13399540	.	G	T	799.83	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
21021	chrY	13399552	.	A	G,*	1025.61	my_snp_filter	AC=6,1;AF=0.094,0.016;AN=
21022	chrY	13399576	.	G	C	724.24	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
21023	chrY	13399577	.	C	T	2471.39	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
21024	chrY	13399597	.	C	A	431.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21025	chrY	13399599	.	T	A	549.01	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21026	chrY	13399617	.	G	A	426.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21027	chrY	13399659	.	T	A	1876.46	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21028	chrY	13399660	.	G	C	1880.02	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21029	chrY	13399683	.	T	A	1726.57	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21030	chrY	13399684	.	T	A	1726.61	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21031	chrY	13399685	.	C	G	336.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
21032	chrY	13399691	.	C	A	191.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21033	chrY	13399709	.	G	A	85.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
21034	chrY	13399713	.	G	C	536.59	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21035	chrY	13399757	.	A	G	797.99	my_snp_filter	AC=10;AF=0.143;AN=70;Base
21036	chrY	13399763	.	T	C	1058.84	my_snp_filter	AC=10;AF=0.143;AN=70;Base
21037	chrY	13399795	.	G	A	5057.81	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
21038	chrY	13399807	.	G	A	5974.77	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
21039	chrY	13399871	.	G	C,T	25457.86	PASS	AC=43,26;AF=0.614,0.371;A
21040	chrY	13399890	.	T	A	3326.16	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
21041	chrY	13399921	.	T	C	1678.75	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
21042	chrY	13399953	.	T	G	3416.64	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
21043	chrY	13399966	.	T	C	8475.15	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
21044	chrY	13400059	.	A	G	405.08	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
21045	chrY	13400069	.	C	T	3375.13	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
21046	chrY	13400099	.	G	A	1153.56	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
21047	chrY	13400146	.	A	G	1413.56	my_snp_filter	AC=7;AF=0.194;AN=36;BaseQ
21048	chrY	13400159	.	C	T	6737.39	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
21049	chrY	13400161	.	A	T	4172.39	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
21050	chrY	13400168	.	T	C	34.79	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
21051	chrY	13400173	.	G	T	153.92	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
21052	chrY	13400211	.	G	A	439.73	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ

21053	chrY	13400245	.	T	C	207.53	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
21054	chrY	13400253	.	T	C	73.12	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
21055	chrY	13400336	.	C	T	3665.79	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21056	chrY	13400351	.	T	A	632.70	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
21057	chrY	13400365	.	G	A	12012.51	PASS	AC=25;AF=0.357;AN=70;BaseQ
21058	chrY	13400400	.	T	A	10653.07	PASS	AC=27;AF=0.386;AN=70;BaseQ
21059	chrY	13400403	.	G	T	4387.47	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
21060	chrY	13400430	.	C	A	273.02	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21061	chrY	13400470	.	G	A	10899.86	PASS	AC=23;AF=0.329;AN=70;BaseQ
21062	chrY	13400517	.	T	C	1166.22	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum
21063	chrY	13400540	.	C	G	12521.77	PASS	AC=31;AF=0.470;AN=66;BaseQ
21064	chrY	13400547	.	C	A	1001.49	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum
21065	chrY	13400548	.	A	T	1001.48	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum
21066	chrY	13400618	.	C	G	9805.66	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
21067	chrY	13400621	.	T	G	4668.72	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
21068	chrY	13400628	.	T	G	4855.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
21069	chrY	13400641	.	C	T	4716.09	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
21070	chrY	13400653	.	T	C	66.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21071	chrY	13400654	.	G	A	11598.09	PASS	AC=27;AF=0.397;AN=68;BaseQ
21072	chrY	13400703	.	A	T	23803.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21073	chrY	13400715	.	T	C	435.39	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
21074	chrY	13400771	.	A	T	2228.31	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21075	chrY	13400787	.	T	A	35.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21076	chrY	13400814	.	C	A	2213.64	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21077	chrY	13400815	.	T	C	11811.50	my_snp_filter	AC=27;AF=0.386;AN
21078	chrY	13400826	.	C	T	12142.45	my_snp_filter	AC=27;AF=0.386;AN
21079	chrY	13400861	.	G	A	261.46	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
21080	chrY	13400891	.	A	G	39648.10	PASS	AC=34;AF=0.486;AN=70;BaseQ
21081	chrY	13400899	.	C	T	42034.34	PASS	AC=34;AF=0.486;AN=70;BaseQ
21082	chrY	13400906	.	T	A	1035.11	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
21083	chrY	13400919	.	T	A	863.85	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21084	chrY	13400928	.	G	A	22704.03	PASS	AC=32;AF=0.457;AN=70;BaseQ
21085	chrY	13400956	.	T	G	39559.16	PASS	AC=35;AF=0.500;AN=70;BaseQ
21086	chrY	13400974	.	A	C	607.31	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21087	chrY	13400993	.	C	G	874.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
21088	chrY	13400995	.	G	T	783.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
21089	chrY	13401048	.	G	T,C	8592.33	PASS	AC=23,3;AF=0.329,0.043;AN=70;BaseQ
21090	chrY	13401059	.	T	G	32460.91	PASS	AC=30;AF=0.429;AN=70;BaseQ
21091	chrY	13401066	.	C	T	7333.45	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
21092	chrY	13401069	.	T	C	1114.39	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
21093	chrY	13401072	.	G	A	3606.90	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
21094	chrY	13401091	.	T	C	30287.52	PASS	AC=27;AF=0.386;AN=70;BaseQ
21095	chrY	13401110	.	G	A	370.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
21096	chrY	13401130	.	G	A	262.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
21097	chrY	13401135	.	T	C	381.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
21098	chrY	13401146	.	A	C	5948.35	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
21099	chrY	13401166	.	C	T	1263.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
21100	chrY	13401188	.	A	G,T	14265.82	PASS	AC=27,3;AF=0.386,0.043;AN
21101	chrY	13401189	.	C	T	15407.04	PASS	AC=30;AF=0.429;AN=70;BaseQ
21102	chrY	13401203	.	T	C	49.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21103	chrY	13401218	.	G	A	528.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
21104	chrY	13401230	.	C	T	102.03	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21105	chrY	13401250	.	G	A	105.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21106	chrY	13401273	.	C	T	159.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21107	chrY	13401283	.	T	C	18396.04	PASS	AC=29;AF=0.414;AN=70;BaseQ
21108	chrY	13401296	.	G	A	20655.32	PASS	AC=28;AF=0.400;AN=70;BaseQ
21109	chrY	13401307	.	T	C	3309.69	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
21110	chrY	13401309	.	A	C	7036.43	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21111	chrY	13401321	.	G	A	3811.74	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
21112	chrY	13401333	.	T	C	1406.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
21113	chrY	13401384	.	C	T	49.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21114	chrY	13401390	.	C	T	39119.79	PASS	AC=36;AF=0.514;AN=70;BaseQ
21115	chrY	13401405	.	C	T	1243.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
21116	chrY	13401428	.	C	T	38024.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21117	chrY	13401439	.	T	C	12312.73	PASS	AC=33;AF=0.471;AN=70;BaseQ
21118	chrY	13401450	.	T	G	23715.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
21119	chrY	13401481	.	T	C	10095.15	PASS	AC=31;AF=0.443;AN=70;BaseQ
21120	chrY	13401571	.	A	C	34334.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21121	chrY	13401576	.	C	T	5637.19	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
21122	chrY	13401602	.	C	G	688.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21123	chrY	13401655	.	G	C	12530.73	PASS	AC=33;AF=0.471;AN=70;BaseQ
21124	chrY	13401705	.	C	A	9738.26	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
21125	chrY	13401728	.	G	T	384.88	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21126	chrY	13401783	.	G	A	349.21	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21127	chrY	13401802	.	T	C	8794.62	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
21128	chrY	13401806	.	T	C	2130.87	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum

21129	chrY	13401817	.	A	G	6176.79	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum=
21130	chrY	13401823	.	T	C	3019.25	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
21131	chrY	13401870	.	T	C	324.40	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
21132	chrY	13401878	.	G	A	221.02	my_snp_filter	AC=4;AF=0.100;AN=40;BaseQ
21133	chrY	13401900	.	T	C	3006.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
21134	chrY	13401987	.	A	T	2193.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
21135	chrY	13402002	.	C	T	2469.82	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
21136	chrY	13402006	.	C	T	16751.84	PASS	AC=14;AF=0.538;AN=26;BaseQ
21137	chrY	13402008	.	G	C	2149.79	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
21138	chrY	13402034	.	C	T	683.93	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
21139	chrY	13402037	.	C	G	92.49	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
21140	chrY	13402077	.	C	A	5310.22	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
21141	chrY	13402082	.	G	A	99.12	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
21142	chrY	13402122	.	C	A	53.78	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
21143	chrY	13402143	.	C	A	1923.06	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
21144	chrY	13402162	.	C	G	150.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21145	chrY	13402178	.	A	C	513.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21146	chrY	13402186	.	T	C	12823.34	PASS	AC=34;AF=0.486;AN=70;BaseQ
21147	chrY	13402246	.	T	C	4532.62	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
21148	chrY	13402259	.	A	G	48993.23	PASS	AC=37;AF=0.529;AN=70;BaseQ
21149	chrY	13402293	.	A	G	4410.81	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21150	chrY	13402301	.	G	C	93.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21151	chrY	13402321	.	T	C	4303.44	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
21152	chrY	13402403	.	C	T	367.24	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
21153	chrY	13402432	.	C	T	5249.59	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
21154	chrY	13402516	.	G	A	652.27	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
21155	chrY	13402530	.	T	C	4379.29	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
21156	chrY	13402543	.	G	T	4129.29	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
21157	chrY	13402550	.	A	G	4019.29	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
21158	chrY	13402561	.	G	T	2206.82	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
21159	chrY	13402570	.	A	G	380.72	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
21160	chrY	13402572	.	A	G, T	2243.85	PASS	AC=2, 5;AF=0.100, 0.250;AN=20;BaseQ
21161	chrY	13402613	.	C	G	3475.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21162	chrY	13402619	.	G	T, A	1191.30	PASS	AC=4, 2;AF=0.200, 0.100;AN=20;BaseQ
21163	chrY	13402623	.	T	C	3807.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21164	chrY	13402652	.	T	C	5862.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21165	chrY	13402662	.	T	A	6047.58	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21166	chrY	13402755	.	A	G	2853.91	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
21167	chrY	13402782	.	G	A	9918.68	PASS	AC=15;AF=0.357;AN=42;BaseQRankSum=
21168	chrY	13402792	.	C	T	2069.60	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
21169	chrY	13402794	.	C	A	81.63	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
21170	chrY	13402876	.	A	G	17838.19	PASS	AC=34;AF=0.500;AN=68;BaseQ
21171	chrY	13402900	.	T	C	1736.54	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
21172	chrY	13402969	.	T	C	1586.70	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21173	chrY	13402976	.	A	T	9953	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21174	chrY	13402983	.	T	C	1517.95	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21175	chrY	13403004	.	G	A	206.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21176	chrY	13403041	.	C	T	402.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21177	chrY	13403048	.	G	T	9346.07	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
21178	chrY	13403049	.	T	C	142.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
21179	chrY	13403066	.	G	A	7739.84	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21180	chrY	13403070	.	C	T	2064.47	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
21181	chrY	13403073	.	T	A	7484.46	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21182	chrY	13403145	.	A	T	517.89	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
21183	chrY	13403153	.	G	T	32.36	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
21184	chrY	13403184	.	G	A	497.99	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
21185	chrY	13403212	.	C	G	16367.55	PASS	AC=23;AF=0.719;AN=32;BaseQ
21186	chrY	13403269	.	T	A	12424.34	PASS	AC=11;AF=0.550;AN=20;BaseQ
21187	chrY	13403307	.	G	A	1567.65	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
21188	chrY	13403332	.	C	T	16765.49	PASS	AC=12;AF=0.600;AN=20;BaseQ
21189	chrY	13403410	.	G	A	18766.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
21190	chrY	13403424	.	A	C	19068.13	PASS	AC=9;AF=0.375;AN=24;BaseQ
21191	chrY	13403434	.	T	G	3933.11	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
21192	chrY	13403436	.	G	A	606.86	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
21193	chrY	13403445	.	C	T	13486.05	PASS	AC=10;AF=0.357;AN=28;BaseQ
21194	chrY	13403451	.	G	C	11723.10	PASS	AC=10;AF=0.313;AN=32;BaseQ
21195	chrY	13403455	.	G	A	2055.27	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
21196	chrY	13403456	.	T	C	4723.79	PASS	AC=10;AF=0.294;AN=34;BaseQRankSum=
21197	chrY	13403459	.	G	A	278.12	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
21198	chrY	13403497	.	G	A	495.62	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
21199	chrY	13403513	.	C	T	122.69	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
21200	chrY	13403524	.	C	T	401.29	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
21201	chrY	13403540	.	G	A	390.20	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
21202	chrY	13403544	.	A	G	1355.11	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
21203	chrY	13403552	.	T	G	167.93	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
21204	chrY	13403594	.	C	T	250.62	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

21205	chrY	13403608	.	G	A	762.80	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21206	chrY	13403625	.	T	A	5925.26	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
21207	chrY	13403697	.	A	G	65894.05	PASS	AC=39;AF=0.557;AN=70;BaseQ
21208	chrY	13403722	.	A	G	1355.79	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21209	chrY	13403723	.	G	A	421.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21210	chrY	13403743	.	G	A	34284.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21211	chrY	13403750	.	C	T	1166.88	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
21212	chrY	13403751	.	C	G	4072.38	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
21213	chrY	13403779	.	G	A	11838	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
21214	chrY	13403786	.	C	T	40423.77	PASS	AC=35;AF=0.500;AN=70;BaseQ
21215	chrY	13403822	.	C	A	5548.41	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
21216	chrY	13403903	.	C	G	9261.61	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
21217	chrY	13403916	.	C	A	9288	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
21218	chrY	13403919	.	T	C	8782.91	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
21219	chrY	13403923	.	C	T	62.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21220	chrY	13403929	.	T	G	68.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21221	chrY	13403942	.	G	A	83.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21222	chrY	13403973	.	G	A	5972.18	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
21223	chrY	13403984	.	C	A	152.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21224	chrY	13403991	.	C	A	3009.05	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
21225	chrY	13403998	.	C	T	131.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21226	chrY	13403999	.	T	C	193.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21227	chrY	13404000	.	C	T	5325.85	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
21228	chrY	13404001	.	G	T	336.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21229	chrY	13404002	.	G	C	35.60	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21230	chrY	13404019	.	A	G	517.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
21231	chrY	13404041	.	T	G	49.89	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21232	chrY	13404060	.	T	A	1869.11	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
21233	chrY	13404066	.	T	C	24145.32	PASS	AC=16;AF=0.250;AN=64;BaseQ
21234	chrY	13404107	.	C	T	4671.19	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum
21235	chrY	13404127	.	G	T	6660.92	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
21236	chrY	13404129	.	T	C	6796.87	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
21237	chrY	13404135	.	G	A	1200.16	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
21238	chrY	13404139	.	G	A	6463.87	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
21239	chrY	13404175	.	T	C	93.20	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
21240	chrY	13404189	.	C	G	1959.92	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum
21241	chrY	13404229	.	C	G	4912.50	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum
21242	chrY	13404269	.	T	G	259.79	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum
21243	chrY	13404294	.	G	A	601.80	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum
21244	chrY	13404339	.	G	C	114.56	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
21245	chrY	13404362	.	C	T,G	887.21	my_snp_filter	AC=5,3;AF=0.100,0.060;AN=
21246	chrY	13404381	.	G	A	4498.76	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum
21247	chrY	13404392	.	C	A	1459.41	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum
21248	chrY	13404412	.	A	G	7136.02	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum
21249	chrY	13404443	.	A	C	550.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
21250	chrY	13404453	.	G	A	521.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21251	chrY	13404483	.	C	T	256.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21252	chrY	13404496	.	G	A	2001	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
21253	chrY	13404503	.	T	A	230.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21254	chrY	13404527	.	G	T	168.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21255	chrY	13404545	.	A	C	25281.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
21256	chrY	13404551	.	T	G	24580.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
21257	chrY	13404571	.	C	T	2659.18	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
21258	chrY	13404572	.	A	G	18511.42	PASS	AC=31;AF=0.443;AN=70;BaseQ
21259	chrY	13404666	.	C	T	153.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21260	chrY	13404667	.	C	T	12192.46	PASS	AC=24;AF=0.343;AN=70;BaseQ
21261	chrY	13404679	.	G	A	242.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21262	chrY	13404713	.	A	C	13661.45	PASS	AC=19;AF=0.279;AN=68;BaseQ
21263	chrY	13404722	.	T	C	1045.86	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
21264	chrY	13404738	.	G	A	343.82	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21265	chrY	13404755	.	T	G	8076.53	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
21266	chrY	13404794	.	A	T	3328.40	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
21267	chrY	13404845	.	A	G	5880.14	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
21268	chrY	13404854	.	A	T	1764.38	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
21269	chrY	13404855	.	G	T	8940.34	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
21270	chrY	13404857	.	A	G	218.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21271	chrY	13404867	.	T	C	9346.37	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
21272	chrY	13404869	.	T	C	11483.38	PASS	AC=30;AF=0.429;AN=70;BaseQ
21273	chrY	13404870	.	A	G	23772.99	PASS	AC=36;AF=0.514;AN=70;BaseQ
21274	chrY	13404873	.	C	A	9708.72	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
21275	chrY	13404884	.	A	C	11261.81	PASS	AC=30;AF=0.429;AN=70;BaseQ
21276	chrY	13404911	.	C	A	348.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21277	chrY	13404913	.	G	A	30768.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21278	chrY	13404986	.	T	G	68.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21279	chrY	13404996	.	T	C	2129.18	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
21280	chrY	13405080	.	A	G	34.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

21281	chrY	13405085	.	T	G	9081.23	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
21282	chrY	13405106	.	A	G	8157.28	PASS	AC=26;AF=0.419;AN=62;BaseQRankSum=
21283	chrY	13405121	.	C	A	92.12	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
21284	chrY	13405131	.	C	T	1579.04	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
21285	chrY	13405134	.	G	A	1581.64	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
21286	chrY	13405149	.	T	C	9025.05	PASS	AC=19;AF=0.413;AN=46;BaseQRankSum=
21287	chrY	13405215	.	G	A	12451.19	PASS	AC=28;AF=0.519;AN=54;BaseQ
21288	chrY	13405225	.	A	C	2176.48	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
21289	chrY	13405232	.	A	T	2398.60	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
21290	chrY	13405246	.	G	A	130.02	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21291	chrY	13405302	.	A	C	390.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21292	chrY	13405321	.	A	T	699.38	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
21293	chrY	13405329	.	G	C	538.27	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21294	chrY	13405349	.	G	A	27229.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
21295	chrY	13405364	.	A	G	436.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21296	chrY	13405370	.	G	A	21209.92	PASS	AC=34;AF=0.486;AN=70;BaseQ
21297	chrY	13405401	.	G	C	1886.66	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
21298	chrY	13405408	.	C	A	900.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
21299	chrY	13405423	.	G	C	1754.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21300	chrY	13405463	.	T	C	4212.92	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
21301	chrY	13405481	.	T	A	1928.56	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
21302	chrY	13405493	.	G	A	1854.85	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
21303	chrY	13405572	.	A	T	1377.86	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
21304	chrY	13405600	.	C	A	742.49	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
21305	chrY	13405604	.	A	G	70.96	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
21306	chrY	13405635	.	C	G	11281.24	PASS	AC=12;AF=0.600;AN=20;BaseQ
21307	chrY	13405657	.	C	G	3782.68	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
21308	chrY	13405719	.	T	C	15188.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
21309	chrY	13405728	.	A	G	5270.88	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
21310	chrY	13405762	.	G	T	1175.67	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
21311	chrY	13405799	.	T	G	3935.87	PASS	AC=12;AF=0.261;AN=46;BaseQRankSum=
21312	chrY	13405842	.	T	A	479.11	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQ
21313	chrY	13405850	.	C	A	417.19	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
21314	chrY	13405866	.	C	A	2165.41	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
21315	chrY	13405868	.	C	G	157.83	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
21316	chrY	13405870	.	T	C	84.55	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
21317	chrY	13405879	.	A	C	11522.57	PASS	AC=15;AF=0.300;AN=50;BaseQ
21318	chrY	13405911	.	C	T	732.33	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
21319	chrY	13405927	.	C	T	6263.84	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
21320	chrY	13405942	.	A	G	7376.04	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
21321	chrY	13405955	.	A	G	6828.14	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
21322	chrY	13405976	.	T	C	4130.41	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
21323	chrY	13405987	.	T	C	1254.63	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
21324	chrY	13406004	.	C	G	3710.92	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21325	chrY	13406025	.	G	T	3209.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21326	chrY	13406053	.	T	A	215.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21327	chrY	13406062	.	T	C	325.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
21328	chrY	13406174	.	A	G	914.65	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
21329	chrY	13406185	.	C	T	1006.87	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
21330	chrY	13406213	.	T	C	186.50	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
21331	chrY	13406251	.	A	T	45.40	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
21332	chrY	13406509	.	C	G	436.32	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
21333	chrY	13406543	.	G	A	92.08	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
21334	chrY	13406553	.	A	G	1112.62	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
21335	chrY	13406564	.	T	A	661.45	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
21336	chrY	13406574	.	G	C	261.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
21337	chrY	13406579	.	G	C	1005.65	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21338	chrY	13406589	.	G	C	221.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
21339	chrY	13406604	.	C	A	1476.47	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21340	chrY	13406620	.	T	A	1364.52	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21341	chrY	13406623	.	A	G	1376.88	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21342	chrY	13406665	.	A	G	58.90	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
21343	chrY	13406671	.	C	T	174.23	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
21344	chrY	13406688	.	A	G	14834.54	my_snp_filter	AC=10;AF=0.556;AN=
21345	chrY	13406752	.	G	A	8417.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
21346	chrY	13406753	.	T	A	138.34	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
21347	chrY	13406799	.	T	C	4998.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21348	chrY	13406816	.	G	A	4983.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21349	chrY	13406821	.	C	T	7568.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
21350	chrY	13406841	.	A	G	5188.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
21351	chrY	13406851	.	G	T	5262.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
21352	chrY	13406865	.	A	G	7490.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
21353	chrY	13406875	.	T	A	506.70	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
21354	chrY	13406876	.	A	G,T	24568.95	PASS	AC=10,8;AF=0.455,0.364;AN=
21355	chrY	13406889	.	T	G	2601.90	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
21356	chrY	13406891	.	G	A	541	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ

21357	chrY	13406937	.	G	A	4525.61	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
21358	chrY	13406942	.	C	T	273.72	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
21359	chrY	13406947	.	G	T	4832.91	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
21360	chrY	13406948	.	C	A	4851.28	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
21361	chrY	13406958	.	C	T	16985.34	PASS	AC=23;AF=0.397;AN=58;Base
21362	chrY	13406991	.	C	A	625.58	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
21363	chrY	13407087	.	T	A	1262.46	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21364	chrY	13407103	.	A	T	1098.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21365	chrY	13407107	.	T	A	929.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21366	chrY	13407110	.	C	G	5137.13	my_snp_filter	AC=23;AF=0.329;AN=70;Base
21367	chrY	13407137	.	C	T,*	461.18	PASS	AC=4,2;AF=0.067,0.033;AN=60;BaseQ
21368	chrY	13407144	.	T	G	152.03	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
21369	chrY	13407147	.	T	G	103.29	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
21370	chrY	13407160	.	G	A	75.04	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
21371	chrY	13407161	.	G	C	75.12	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
21372	chrY	13407167	.	C	G	76.29	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
21373	chrY	13407200	.	G	A	938.31	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
21374	chrY	13407238	.	A	G	716.81	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
21375	chrY	13407243	.	T	A	4059.70	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum=
21376	chrY	13407260	.	T	C	3769.22	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
21377	chrY	13407276	.	G	A	3373.76	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
21378	chrY	13407285	.	T	C	2906.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
21379	chrY	13407293	.	T	C	2492.48	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
21380	chrY	13407297	.	T	C	2387.52	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
21381	chrY	13407328	.	G	C	68.16	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
21382	chrY	13407382	.	G	A	155.84	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
21383	chrY	13407389	.	T	C	1610.40	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
21384	chrY	13407410	.	G	C	2272.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
21385	chrY	13407423	.	T	G	333.63	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
21386	chrY	13407425	.	C	T	2703.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
21387	chrY	13407429	.	C	G	361.54	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
21388	chrY	13407450	.	G	T	3741.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
21389	chrY	13407516	.	A	T	779.45	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
21390	chrY	13407618	.	T	C	5710.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21391	chrY	13407619	.	G	A	71.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
21392	chrY	13407640	.	T	G	7346.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21393	chrY	13407646	.	G	A	1802.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21394	chrY	13407673	.	C	T	1508.04	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
21395	chrY	13407674	.	G	A	2556.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21396	chrY	13407706	.	G	A	1849.45	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
21397	chrY	13407762	.	G	T	471.68	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
21398	chrY	13407765	.	A	G	227.42	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
21399	chrY	13407796	.	A	G	1005.16	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
21400	chrY	13407886	.	C	T,*	4930.11	PASS	AC=13,3;AF=0.186,0.043;AN=70;Base
21401	chrY	13407906	.	T	C	2062.65	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21402	chrY	13407940	.	A	G	12237.32	PASS	AC=29;AF=0.414;AN=70;Base
21403	chrY	13407945	.	T	C	8219.84	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
21404	chrY	13407950	.	T	C	13031.19	PASS	AC=29;AF=0.414;AN=70;Base
21405	chrY	13407988	.	A	T	6582.26	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
21406	chrY	13407994	.	C	T	19326.53	PASS	AC=34;AF=0.486;AN=70;Base
21407	chrY	13408002	.	C	A	5101.32	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
21408	chrY	13408017	.	G	T	6385.76	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
21409	chrY	13408021	.	T	C	1096.71	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
21410	chrY	13408048	.	A	G	8189.72	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
21411	chrY	13408069	.	G	A	696.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21412	chrY	13408081	.	A	G	404.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
21413	chrY	13408095	.	G	A	619.26	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21414	chrY	13408108	.	A	C	3420.48	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
21415	chrY	13408130	.	T	C	2050.23	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
21416	chrY	13408131	.	C	T	114.85	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
21417	chrY	13408231	.	T	A	119.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
21418	chrY	13408238	.	A	G	109.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
21419	chrY	13408247	.	G	A	1410.24	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
21420	chrY	13408250	.	G	T	105.06	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
21421	chrY	13408280	.	G	A	162.74	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
21422	chrY	13408307	.	T	A	1603.93	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
21423	chrY	13408329	.	T	G	1823.10	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
21424	chrY	13408364	.	C	A	3089.19	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
21425	chrY	13408365	.	C	T	3233.06	PASS	AC=12;AF=0.375;AN=32;BaseQRankSum=
21426	chrY	13408369	.	T	A	2644.39	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
21427	chrY	13408386	.	C	T	2144.10	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
21428	chrY	13408387	.	C	G	3062.57	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
21429	chrY	13408391	.	G	T	7688.54	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
21430	chrY	13408398	.	C	A	1346.92	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
21431	chrY	13408399	.	T	C	4849.81	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
21432	chrY	13408415	.	T	A	3825.98	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=

21433	chrY	13408465	.	T	A	4737.38	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQ
21434	chrY	13408469	.	G	T	4246.07	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum
21435	chrY	13408481	.	C	A	4005.14	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQ
21436	chrY	13408496	.	A	G	8648.10	PASS	AC=14;AF=0.259;AN=54;BaseQRankSum
21437	chrY	13408497	.	T	C	9012.10	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum
21438	chrY	13408500	.	G	T	1838.74	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
21439	chrY	13408504	.	T	C	177.39	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
21440	chrY	13408507	.	A	T	22916.99	PASS	AC=22;AF=0.407;AN=54;Base
21441	chrY	13408510	.	C	T	168.96	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
21442	chrY	13408547	.	G	A	60	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
21443	chrY	13408552	.	T	C	4319.31	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum
21444	chrY	13408572	.	C	G	2612.42	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21445	chrY	13408575	.	A	T	12969.91	PASS	AC=9;AF=0.136;AN=66;BaseQ
21446	chrY	13408576	.	A	G	3852.62	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
21447	chrY	13408623	.	G	A	1566.33	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
21448	chrY	13408629	.	T	G	8737.70	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
21449	chrY	13408664	.	T	C	3666.10	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21450	chrY	13408678	.	C	A	4153.16	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21451	chrY	13408682	.	C	T	4353.69	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21452	chrY	13408703	.	T	C	333.39	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21453	chrY	13408713	.	A	T,G	7189.69	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
21454	chrY	13408720	.	A	T	12901.69	PASS	AC=20;AF=0.286;AN=70;Base
21455	chrY	13408730	.	T	C	3914.79	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21456	chrY	13408780	.	G	A	190.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21457	chrY	13408789	.	A	T,G	2696.53	my_snp_filter	AC=6,3;AF=0.086,0.043;AN=
21458	chrY	13408796	.	C	T	2020.27	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
21459	chrY	13408829	.	G	A	3433.39	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
21460	chrY	13408838	.	T	C	365.23	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
21461	chrY	13408859	.	A	T	382.69	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
21462	chrY	13408861	.	T	C	459.49	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
21463	chrY	13408905	.	A	T	2406.75	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
21464	chrY	13408921	.	T	C	2446.63	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
21465	chrY	13408957	.	C	G	1619.44	my_snp_filter	AC=9;AF=0.205;AN=44;BaseQ
21466	chrY	13409015	.	T	G	595.09	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
21467	chrY	13409053	.	G	T	58.75	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
21468	chrY	13409057	.	A	T	1744.14	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
21469	chrY	13409070	.	G	A	2290.53	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
21470	chrY	13409100	.	C	T	464.62	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
21471	chrY	13409106	.	G	A	35.25	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
21472	chrY	13409112	.	A	G	2256.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
21473	chrY	13409126	.	A	T	697.13	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
21474	chrY	13409132	.	C	T	144.64	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
21475	chrY	13409135	.	G	A	67.03	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21476	chrY	13409151	.	G	A	89.10	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
21477	chrY	13409167	.	T	C	3913.75	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum
21478	chrY	13409191	.	G	T,C	5146.90	my_snp_filter	AC=8,2;AF=0.364,0.091;AN=
21479	chrY	13409212	.	G	A,C	5644.25	PASS	AC=9,1;AF=0.450,0.050;AN=20;BaseQ
21480	chrY	13409213	.	T	C	151.89	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
21481	chrY	13409215	.	G	C	374.29	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
21482	chrY	13409251	.	G	A	930.18	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
21483	chrY	13409258	.	G	A	976.63	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
21484	chrY	13409351	.	T	C	90.01	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
21485	chrY	13409391	.	C	T	93.12	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
21486	chrY	13409393	.	A	G	89.75	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
21487	chrY	13409394	.	T	C	183.61	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
21488	chrY	13409398	.	C	T	179.99	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
21489	chrY	13409550	.	C	T	41.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21490	chrY	13409571	.	G	T	232.84	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21491	chrY	13409610	.	C	A	30.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21492	chrY	13409613	.	T	G	129.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21493	chrY	13409623	.	G	T	82.11	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
21494	chrY	13409633	.	C	A	1711.52	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
21495	chrY	13409665	.	G	A	69.88	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
21496	chrY	13409678	.	G	C	47.39	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
21497	chrY	13409686	.	A	G	2162.34	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
21498	chrY	13409706	.	C	T	271.52	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
21499	chrY	13409710	.	C	T	146.82	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
21500	chrY	13409720	.	G	C	59.59	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
21501	chrY	13409727	.	T	G	270.89	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
21502	chrY	13409760	.	C	A	118.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21503	chrY	13409761	.	T	A	71.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21504	chrY	13409772	.	T	C	482.72	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
21505	chrY	13409800	.	T	G	2007.65	my_snp_filter	AC=12;AF=0.171;AN=70;Base
21506	chrY	13409806	.	G	C	184.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
21507	chrY	13409821	.	C	A	1459.06	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21508	chrY	13409839	.	T	C	1113.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=

21509	chrY	13409871	.	T	A	388.02	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
21510	chrY	13409872	.	A	G	5099.30	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum
21511	chrY	13409917	.	T	G	48.50	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
21512	chrY	13409919	.	G	C	411.29	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
21513	chrY	13409924	.	T	C	1142.72	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
21514	chrY	13409929	.	G	A	1924.33	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
21515	chrY	13409931	.	C	T	772.17	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
21516	chrY	13409978	.	T	C	1175.31	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21517	chrY	13410001	.	T	C	76.83	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
21518	chrY	13410014	.	C	T	172.92	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
21519	chrY	13410025	.	A	T,*	2434.69	PASS	AC=5,8;AF=0.074,0.118;AN=68;BaseQ
21520	chrY	13410048	.	G	A	7422.84	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
21521	chrY	13410051	.	A	G	436.46	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
21522	chrY	13410056	.	T	C	389.49	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
21523	chrY	13410067	.	G	C	382.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
21524	chrY	13410083	.	T	C	1070.79	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21525	chrY	13410111	.	T	C	210.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21526	chrY	13410124	.	C	G	198.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21527	chrY	13410130	.	A	G	571.48	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21528	chrY	13410133	.	G	A	4469.75	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
21529	chrY	13410180	.	C	A	1579.57	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21530	chrY	13410193	.	T	C	460.81	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
21531	chrY	13410209	.	A	C	6605.63	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21532	chrY	13410218	.	C	A	7744.70	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21533	chrY	13410227	.	C	T	9078.44	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21534	chrY	13410282	.	T	G	2792.96	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
21535	chrY	13410284	.	T	G,A	3053.71	PASS	AC=6,11;AF=0.086,0.157;AN=70;Base
21536	chrY	13410310	.	T	A	949.33	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
21537	chrY	13410314	.	G	C	174.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21538	chrY	13410339	.	T	A	3790.37	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
21539	chrY	13410345	.	T	C	10559.01	PASS	AC=20;AF=0.303;AN=66;Base
21540	chrY	13410385	.	T	A	5538.11	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
21541	chrY	13410391	.	C	T	37.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
21542	chrY	13410409	.	G	A	147.12	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
21543	chrY	13410413	.	T	C	3835.32	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
21544	chrY	13410455	.	A	G	792.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
21545	chrY	13410483	.	A	G	198.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21546	chrY	13410495	.	T	A	175.84	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21547	chrY	13410502	.	A	G	144.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21548	chrY	13410539	.	A	C	6828.02	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
21549	chrY	13410551	.	G	T	318.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21550	chrY	13410554	.	T	C	3801.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21551	chrY	13410560	.	C	A	14228.41	PASS	AC=26;AF=0.371;AN=70;Base
21552	chrY	13410589	.	A	G	20711.92	PASS	AC=30;AF=0.429;AN=70;Base
21553	chrY	13410601	.	T	C	2436.36	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21554	chrY	13410651	.	G	A	4879.06	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
21555	chrY	13410664	.	T	A	297.60	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
21556	chrY	13410677	.	A	T	2603.65	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
21557	chrY	13410709	.	G	A	1154.25	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
21558	chrY	13410710	.	A	G	13648.95	PASS	AC=9;AF=0.225;AN=40;BaseQ
21559	chrY	13410738	.	G	C	8604.86	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
21560	chrY	13410741	.	C	T	352.05	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
21561	chrY	13410742	.	G	A	3850.56	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
21562	chrY	13410744	.	G	A	8323.32	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
21563	chrY	13410758	.	C	T	6390.94	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQ
21564	chrY	13410771	.	A	G	5178.08	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
21565	chrY	13410787	.	T	C	538.33	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
21566	chrY	13410822	.	G	A	39.24	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
21567	chrY	13410852	.	G	T	689.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
21568	chrY	13410856	.	C	A	253.50	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21569	chrY	13410862	.	A	C	3291.78	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
21570	chrY	13410863	.	A	G	73.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21571	chrY	13410878	.	G	C	208.60	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21572	chrY	13410881	.	T	A	1266.24	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
21573	chrY	13410891	.	T	C	9490.57	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
21574	chrY	13410916	.	G	T	12049.84	PASS	AC=24;AF=0.343;AN=70;Base
21575	chrY	13410923	.	G	C	2418.64	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
21576	chrY	13410926	.	G	C	2788.70	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
21577	chrY	13410940	.	G	T	10553.71	PASS	AC=24;AF=0.343;AN=70;Base
21578	chrY	13410999	.	T	C	165.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21579	chrY	13411030	.	T	C	16075.51	PASS	AC=30;AF=0.441;AN=68;Base
21580	chrY	13411042	.	G	T	14364.64	PASS	AC=30;AF=0.441;AN=68;Base
21581	chrY	13411112	.	T	C	76.92	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
21582	chrY	13411122	.	A	G	11315.07	PASS	AC=62;AF=1.00;AN=62;DP=36
21583	chrY	13411152	.	T	A	3771.84	my_snp_filter	AC=10;AF=0.156;AN=64;Base
21584	chrY	13411157	.	C	G,T,*	1307.13	my_snp_filter	AC=2,5,3;AF=0.032,0.081,0

21585	chrY	13411231	.	G	C	256.03	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
21586	chrY	13411253	.	G	A	550.62	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
21587	chrY	13411268	.	T	A	111.86	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
21588	chrY	13411276	.	G	C	1313.08	PASS	AC=29;AF=0.537;AN=54;BaseQRankSum
21589	chrY	13411286	.	G	T	48	PASS	AC=2;AF=0.033;AN=60;DP=245;FS=0.0
21590	chrY	13411291	.	G	T	472.74	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
21591	chrY	13411321	.	T	G	72.71	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
21592	chrY	13411421	.	A	G	4010.10	PASS	AC=28;AF=1.00;AN=28;BaseQRankSum=
21593	chrY	13411449	.	A	G	410.59	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
21594	chrY	13411465	.	C	A	156.79	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
21595	chrY	13411473	.	C	T	432.91	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21596	chrY	13411484	.	G	A	292.19	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21597	chrY	13411505	.	C	T	92.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21598	chrY	13411508	.	G	A	987	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
21599	chrY	13411516	.	A	G	1860.96	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
21600	chrY	13411529	.	G	A	2225.15	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
21601	chrY	13411530	.	C	T	342.01	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
21602	chrY	13411531	.	A	G	1960.11	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
21603	chrY	13411532	.	C	G	314.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21604	chrY	13411536	.	G	T	6005.98	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
21605	chrY	13411542	.	A	C	1958.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
21606	chrY	13411544	.	A	G	2070.31	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
21607	chrY	13411548	.	C	T	3334.47	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
21608	chrY	13411570	.	A	C	794.14	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21609	chrY	13411573	.	G	A,*	4491.82	PASS	AC=29,4;AF=0.414,0.057;AN=70;BaseQ
21610	chrY	13411575	.	C	T	59.39	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21611	chrY	13411600	.	C	T	284.88	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
21612	chrY	13411604	.	T	G	20880.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21613	chrY	13411610	.	C	A	71.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21614	chrY	13411614	.	G	A	961.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
21615	chrY	13411636	.	C	T	4480.56	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
21616	chrY	13411637	.	G	A	5822.88	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
21617	chrY	13411660	.	C	A	2294.72	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
21618	chrY	13411668	.	A	G	2875.84	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
21619	chrY	13411678	.	T	A	265.18	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
21620	chrY	13411694	.	G	T	2817.09	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
21621	chrY	13411711	.	T	C	2667.68	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
21622	chrY	13411722	.	T	A	2402.99	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
21623	chrY	13411739	.	C	T,*	2269.90	PASS	AC=10,4;AF=0.200,0.080;AN=50;BaseQ
21624	chrY	13411757	.	G	A	661.60	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
21625	chrY	13411762	.	A	C	1234.60	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
21626	chrY	13411787	.	G	A	1520.57	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
21627	chrY	13411803	.	C	T	288.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
21628	chrY	13411824	.	G	A	966.67	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21629	chrY	13411870	.	T	C	138.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21630	chrY	13411881	.	T	C	157.36	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21631	chrY	13412040	.	C	T	2691.41	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
21632	chrY	13412049	.	A	C	599.28	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
21633	chrY	13412088	.	T	A	207.89	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
21634	chrY	13412130	.	A	C	1228.95	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
21635	chrY	13412137	.	G	C	97.81	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
21636	chrY	13412150	.	C	G	480.25	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
21637	chrY	13412164	.	G	A	365.44	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
21638	chrY	13412218	.	C	T	1201.91	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
21639	chrY	13412221	.	T	C	2004.97	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
21640	chrY	13412233	.	A	T	97.93	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
21641	chrY	13412234	.	G	A	64.21	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
21642	chrY	13412241	.	C	T	35.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
21643	chrY	13412263	.	T	C	45.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21644	chrY	13412320	.	A	G	3109.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21645	chrY	13412382	.	T	G	1880.40	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
21646	chrY	13412426	.	G	A	604.36	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21647	chrY	13412538	.	A	G	526.83	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
21648	chrY	13412552	.	C	G	75.90	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
21649	chrY	13412578	.	A	C	514.77	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
21650	chrY	13412599	.	T	C	337.64	my_snp_filter	AC=5;AF=0.147;AN=34;BaseQ
21651	chrY	13412624	.	A	G	72.15	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
21652	chrY	13412648	.	C	T	109.43	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21653	chrY	13412649	.	T	C	108.62	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21654	chrY	13412662	.	T	C	127.72	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
21655	chrY	13412713	.	C	A	71.19	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
21656	chrY	13412717	.	G	A	107.24	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
21657	chrY	13412744	.	A	G	4008.32	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
21658	chrY	13412750	.	T	A	709.57	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
21659	chrY	13412769	.	G	C	299.70	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQ
21660	chrY	13412780	.	T	C	880.98	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=

21661	chrY	13412787	.	G	T	264.88	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
21662	chrY	13412788	.	T	G	2542.97	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
21663	chrY	13412796	.	C	G	2854.03	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
21664	chrY	13412806	.	T	A	405.50	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
21665	chrY	13412811	.	T	C	2508.38	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
21666	chrY	13412822	.	C	T	258.10	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
21667	chrY	13412858	.	C	A	214.05	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
21668	chrY	13412875	.	G	C	1403.91	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
21669	chrY	13412892	.	T	C	1588.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21670	chrY	13412915	.	A	G	817.26	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21671	chrY	13412939	.	C	A	3582.49	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21672	chrY	13412942	.	C	G	3315.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21673	chrY	13413035	.	C	A	1245.27	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21674	chrY	13413050	.	C	T	404.25	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21675	chrY	13413083	.	A	G	331.42	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21676	chrY	13413084	.	T	C	160.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21677	chrY	13413108	.	C	A	196.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21678	chrY	13413123	.	A	G	229.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21679	chrY	13413138	.	C	T	89.30	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
21680	chrY	13413179	.	T	C	336.69	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
21681	chrY	13413226	.	G	C	1992.92	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
21682	chrY	13413258	.	A	G	3786.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
21683	chrY	13413262	.	G	A	217.85	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
21684	chrY	13413302	.	G	A	276.77	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
21685	chrY	13413525	.	C	A	186.19	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
21686	chrY	13413605	.	T	C	779.77	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
21687	chrY	13413614	.	G	C	232.42	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
21688	chrY	13413717	.	G	C	474.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21689	chrY	13413723	.	A	T	555.82	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
21690	chrY	13413800	.	T	C	150.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21691	chrY	13413810	.	C	G	3944.05	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21692	chrY	13413816	.	C	T	351.73	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
21693	chrY	13413829	.	C	A	184.77	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
21694	chrY	13413883	.	T	G	161.23	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
21695	chrY	13413903	.	T	A	48.71	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
21696	chrY	13413922	.	G	T	54.25	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21697	chrY	13413954	.	A	G	1352.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21698	chrY	13414022	.	T	C	967.96	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
21699	chrY	13414023	.	C	A	964.96	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
21700	chrY	13414027	.	A	G	5035.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
21701	chrY	13414049	.	T	A	178.58	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
21702	chrY	13414055	.	C	A	114.08	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
21703	chrY	13414069	.	C	A	1387.44	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
21704	chrY	13414070	.	C	T	237.45	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
21705	chrY	13414075	.	G	A	829.23	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
21706	chrY	13414092	.	G	C	1279.30	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
21707	chrY	13414117	.	A	C	437.93	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
21708	chrY	13414152	.	C	T	2653.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
21709	chrY	13414169	.	A	G	1814.61	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
21710	chrY	13414177	.	T	A	302.82	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
21711	chrY	13414203	.	C	T	837.30	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21712	chrY	13414211	.	A	G	44.17	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
21713	chrY	13414213	.	A	G	51.57	PASS	AC=2;AF=0.083;AN=24;DP=257;FS=0.0
21714	chrY	13414216	.	C	T	51.63	PASS	AC=2;AF=0.083;AN=24;DP=262;FS=0.0
21715	chrY	13414248	.	T	C	176.91	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
21716	chrY	13414259	.	T	C	502.86	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
21717	chrY	13414267	.	G	T	396.01	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQ
21718	chrY	13414280	.	C	A	330.26	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
21719	chrY	13414370	.	G	T	114.43	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
21720	chrY	13414378	.	G	T	1372.54	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
21721	chrY	13414395	.	A	G	249.99	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
21722	chrY	13414407	.	C	G	576.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
21723	chrY	13414800	.	T	C	200.51	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
21724	chrY	13414804	.	T	G	56.53	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
21725	chrY	13414875	.	C	T	162.81	PASS	AC=4;AF=0.063;AN=64;DP=247;FS=0.0
21726	chrY	13414876	.	G	A	173.61	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
21727	chrY	13414936	.	A	G	80.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
21728	chrY	13414937	.	C	T	79.78	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
21729	chrY	13414960	.	T	C	309.16	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21730	chrY	13414987	.	C	T	909.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21731	chrY	13414995	.	G	A	2329.90	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
21732	chrY	13415016	.	A	T	4744.95	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21733	chrY	13415041	.	T	A	7379.64	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
21734	chrY	13415121	.	T	G	2560.56	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21735	chrY	13415167	.	G	A	3498.47	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21736	chrY	13415169	.	G	A	3498.64	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ

21737	chrY	13415195	.	A	G	1494.65	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
21738	chrY	13415204	.	C	A	1591.47	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
21739	chrY	13415224	.	G	A	3205.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21740	chrY	13415242	.	T	C	189.85	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
21741	chrY	13415306	.	C	T	1199.36	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
21742	chrY	13415356	.	T	C	49.56	PASS	AC=2;AF=0.040;AN=50;DP=884;FS=0.0
21743	chrY	13415364	.	G	T	296.26	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
21744	chrY	13415397	.	G	A	10493.17	PASS	AC=11;AF=0.367;AN=30;BaseQ
21745	chrY	13415405	.	A	T	11199.06	PASS	AC=11;AF=0.458;AN=24;BaseQ
21746	chrY	13415560	.	C	T	3344.69	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
21747	chrY	13415561	.	C	G	354.01	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
21748	chrY	13415586	.	T	C	1491.25	PASS	AC=3;AF=0.300;AN=10;BaseQRankSum=
21749	chrY	13415597	.	G	T	912.45	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
21750	chrY	13415602	.	T	C	786.76	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
21751	chrY	13415617	.	T	C	985.54	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
21752	chrY	13415629	.	T	C	426.73	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
21753	chrY	13415630	.	C	T	417.73	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
21754	chrY	13415653	.	C	T	473.96	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
21755	chrY	13415704	.	C	G	250.36	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
21756	chrY	13415712	.	C	T	127.28	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
21757	chrY	13415735	.	T	G	106.06	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
21758	chrY	13415736	.	A	C	4515.70	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
21759	chrY	13415754	.	A	C	4662.38	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
21760	chrY	13415772	.	C	T	4654.91	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
21761	chrY	13415864	.	A	T	2002.42	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
21762	chrY	13415872	.	A	T	17532.82	my_snp_filter	AC=35;AF=0.500;AN
21763	chrY	13415901	.	G	T	1550.03	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
21764	chrY	13415942	.	A	T	2192.70	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
21765	chrY	13415993	.	G	T	4379.06	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
21766	chrY	13415994	.	G	T	4390.42	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum=
21767	chrY	13416020	.	T	C	1460.09	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21768	chrY	13416098	.	G	A	127.36	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
21769	chrY	13416135	.	T	G	3606.99	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
21770	chrY	13416254	.	C	G	777.60	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
21771	chrY	13416266	.	T	C	1097.01	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
21772	chrY	13416272	.	T	C	1847.54	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21773	chrY	13416290	.	A	C	1483.89	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
21774	chrY	13416348	.	G	T	570.02	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
21775	chrY	13416387	.	T	A	6495.42	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
21776	chrY	13416388	.	G	A	6507.91	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
21777	chrY	13416391	.	T	A	6524.78	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
21778	chrY	13416424	.	G	C	3294.23	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
21779	chrY	13416426	.	A	T	700.33	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
21780	chrY	13416471	.	T	C	3600.43	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
21781	chrY	13416506	.	G	A	951.20	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21782	chrY	13416516	.	A	G	260.17	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
21783	chrY	13416557	.	G	A	4310.62	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
21784	chrY	13416561	.	C	A	33.09	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
21785	chrY	13416571	.	G	T	1572.57	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
21786	chrY	13416633	.	C	T	37.46	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
21787	chrY	13416706	.	A	T	47.63	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
21788	chrY	13416711	.	T	G	225.82	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
21789	chrY	13416747	.	C	T	98.07	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
21790	chrY	13416777	.	T	G	4026.50	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
21791	chrY	13416791	.	G	A	3028.40	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
21792	chrY	13416904	.	C	T	3186.25	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
21793	chrY	13416913	.	G	A	2377.22	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
21794	chrY	13417006	.	G	A	7731.91	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
21795	chrY	13417010	.	T	G	7799.56	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
21796	chrY	13417016	.	C	T	635.96	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
21797	chrY	13417079	.	A	G	365.94	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
21798	chrY	13417142	.	T	A	487.02	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
21799	chrY	13417144	.	C	A	9294.11	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
21800	chrY	13417174	.	T	C	4754.56	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21801	chrY	13417191	.	G	T	5198.23	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21802	chrY	13417202	.	T	C	804.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
21803	chrY	13417207	.	C	A	4655.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21804	chrY	13417233	.	C	G	2739.78	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
21805	chrY	13417250	.	G	C	2140.61	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21806	chrY	13417255	.	T	C	7877.34	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
21807	chrY	13417259	.	T	C	12230.52	PASS	AC=24;AF=0.343;AN=70;BaseQ
21808	chrY	13417271	.	A	G	11500.88	PASS	AC=27;AF=0.386;AN=70;BaseQ
21809	chrY	13417273	.	T	C	1841.86	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21810	chrY	13417282	.	A	G	245.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
21811	chrY	13417301	.	C	T	14857.15	PASS	AC=27;AF=0.386;AN=70;BaseQ
21812	chrY	13417312	.	C	A	575.45	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ

21813	chrY	13417314	.	A	C	1888.17	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
21814	chrY	13417355	.	G	A	3628.87	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
21815	chrY	13417368	.	C	T	161.48	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
21816	chrY	13417376	.	T	A	447.67	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
21817	chrY	13417416	.	T	C	268.67	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
21818	chrY	13417452	.	T	G	96.81	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
21819	chrY	13417495	.	A	G	417.91	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
21820	chrY	13417496	.	G	C	339.82	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
21821	chrY	13417497	.	C	T	5648.90	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum
21822	chrY	13417505	.	A	T	181.83	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
21823	chrY	13417521	.	G	C	867.60	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
21824	chrY	13417529	.	G	A	842.46	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
21825	chrY	13417550	.	T	C	20587.90	PASS	AC=31;AF=0.470;AN=66;BaseQ
21826	chrY	13417564	.	C	A	1239.65	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
21827	chrY	13417565	.	A	G	1227.90	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
21828	chrY	13417617	.	C	A	3182.93	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21829	chrY	13417622	.	T	C	9769.77	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
21830	chrY	13417643	.	C	T	3453.07	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
21831	chrY	13417663	.	C	A	9360.19	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
21832	chrY	13417698	.	C	G	37691.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21833	chrY	13417711	.	T	A	4579.47	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
21834	chrY	13417722	.	C	T	3722.28	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
21835	chrY	13417725	.	T	A	3841.08	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21836	chrY	13417766	.	A	G	55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21837	chrY	13417768	.	G	A	2253	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
21838	chrY	13417770	.	C	T	52.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
21839	chrY	13417813	.	T	C	7207.03	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQ
21840	chrY	13417822	.	T	A,G	5835.91	my_snp_filter	AC=11,5;AF=0.172,0.078;AN=
21841	chrY	13417856	.	G	A	159.40	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
21842	chrY	13417884	.	C	A	1705.87	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
21843	chrY	13417896	.	C	T	897.60	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
21844	chrY	13417903	.	T	G	1061.18	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
21845	chrY	13417931	.	G	T	397.66	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
21846	chrY	13417932	.	G	T	132.17	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQ
21847	chrY	13417947	.	T	C	9397.47	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
21848	chrY	13418015	.	A	C	1204.49	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
21849	chrY	13418039	.	C	G,T	4887.53	PASS	AC=8,3;AF=0.444,0.167;AN=18;BaseQ
21850	chrY	13418040	.	T	C	905.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21851	chrY	13418088	.	T	A	1481.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21852	chrY	13418099	.	C	A	1801.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21853	chrY	13418112	.	C	T	115.13	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
21854	chrY	13418115	.	A	T	1690.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
21855	chrY	13418124	.	G	A	8392.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
21856	chrY	13418133	.	A	G	5285.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21857	chrY	13418135	.	A	G	58.85	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
21858	chrY	13418158	.	C	A	38.34	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
21859	chrY	13418176	.	T	C	30.27	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
21860	chrY	13418190	.	C	T	2009.39	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
21861	chrY	13418223	.	T	C	9441.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
21862	chrY	13418248	.	G	T	20743.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
21863	chrY	13418262	.	G	A	875.40	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
21864	chrY	13418295	.	T	C	13684.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
21865	chrY	13418306	.	T	A	2030.55	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
21866	chrY	13418317	.	C	G	1828.52	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
21867	chrY	13418333	.	G	T	305.89	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
21868	chrY	13418344	.	C	T	363.39	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
21869	chrY	13418387	.	C	T	18615.92	PASS	AC=11;AF=0.423;AN=26;BaseQ
21870	chrY	13418418	.	C	A	97.68	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
21871	chrY	13418426	.	G	A	5660.61	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
21872	chrY	13418464	.	G	A	3651.71	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
21873	chrY	13418495	.	C	T,A	3282.23	PASS	AC=9,2;AF=0.321,0.071;AN=28;BaseQ
21874	chrY	13418500	.	T	G	3024.54	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
21875	chrY	13418501	.	A	G	1047.45	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
21876	chrY	13418510	.	A	G	3064.50	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
21877	chrY	13418521	.	G	T	178.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
21878	chrY	13418530	.	A	G,C	26042.47	PASS	AC=11,9;AF=0.458,0.375;AN=
21879	chrY	13418537	.	G	A	6181.91	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ
21880	chrY	13418572	.	G	A	364.26	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
21881	chrY	13418582	.	G	A	345.56	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
21882	chrY	13418606	.	G	A	4070.20	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
21883	chrY	13418633	.	A	T	10798.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
21884	chrY	13418658	.	T	C	11203.88	PASS	AC=12;AF=0.429;AN=28;BaseQ
21885	chrY	13418697	.	T	C	8766.68	PASS	AC=22;AF=0.478;AN=46;BaseQRankSum
21886	chrY	13418709	.	G	A	1583.17	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum
21887	chrY	13418714	.	A	T	236.97	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
21888	chrY	13418777	.	G	T	3405.77	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum

21889	chrY	13418778	.	A	C	389.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21890	chrY	13418784	.	A	G	377.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21891	chrY	13418790	.	G	C	2194.40	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
21892	chrY	13418819	.	G	A	71.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21893	chrY	13418821	.	C	A	1583.63	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
21894	chrY	13418887	.	C	A	68430.79	PASS	AC=36;AF=0.514;AN=70;BaseQ
21895	chrY	13418895	.	C	T	67520.53	PASS	AC=35;AF=0.500;AN=70;BaseQ
21896	chrY	13418936	.	A	T	7079.48	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
21897	chrY	13418938	.	G	T	64.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21898	chrY	13418941	.	G	A	1319.39	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
21899	chrY	13418944	.	C	T	5558.39	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
21900	chrY	13418974	.	G	A	14618.61	PASS	AC=29;AF=0.414;AN=70;BaseQ
21901	chrY	13419010	.	T	C	69.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
21902	chrY	13419030	.	T	C	1088.91	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum
21903	chrY	13419046	.	A	G	127.34	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
21904	chrY	13419056	.	G	A	1075.77	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum
21905	chrY	13419057	.	G	T	130.28	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
21906	chrY	13419058	.	T	A	1632.84	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum
21907	chrY	13419087	.	T	C	9904.20	PASS	AC=11;AF=0.275;AN=40;BaseQRankSum
21908	chrY	13419113	.	G	A	200.40	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
21909	chrY	13419118	.	T	G	188.62	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
21910	chrY	13419131	.	T	A	378.49	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
21911	chrY	13419135	.	A	G	25421.73	PASS	AC=10;AF=0.333;AN=30;BaseQ
21912	chrY	13419142	.	T	C	249.82	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
21913	chrY	13419150	.	C	T	264.49	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
21914	chrY	13419154	.	T	C	240.99	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
21915	chrY	13419163	.	A	G	109.46	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
21916	chrY	13419166	.	A	G,*	1889.27	PASS	AC=3,3;AF=0.100,0.100;AN=30;BaseQ
21917	chrY	13419213	.	C	T	404.70	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum
21918	chrY	13419223	.	T	A	19867.78	PASS	AC=13;AF=0.217;AN=60;BaseQ
21919	chrY	13419242	.	T	G	3928.79	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum
21920	chrY	13419247	.	C	A	574.67	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
21921	chrY	13419248	.	A	G	574.64	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
21922	chrY	13419258	.	C	T	4063.81	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum
21923	chrY	13419273	.	T	C	430.81	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
21924	chrY	13419289	.	T	C	35997.87	PASS	AC=37;AF=0.561;AN=66;BaseQ
21925	chrY	13419314	.	T	A	291.26	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21926	chrY	13419322	.	G	C	8358.31	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
21927	chrY	13419333	.	G	A	15409.65	PASS	AC=29;AF=0.414;AN=70;BaseQ
21928	chrY	13419356	.	G	T	432.37	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
21929	chrY	13419366	.	G	A	180.97	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21930	chrY	13419377	.	G	T	83122	PASS	AC=45;AF=0.643;AN=70;BaseQRankSum
21931	chrY	13419387	.	A	G	30488.76	PASS	AC=35;AF=0.500;AN=70;BaseQ
21932	chrY	13419402	.	C	G	848.04	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
21933	chrY	13419410	.	G	T	277.46	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
21934	chrY	13419456	.	T	G	5867.47	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
21935	chrY	13419478	.	C	T	40.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21936	chrY	13419492	.	C	G	36.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
21937	chrY	13419495	.	C	T	815.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
21938	chrY	13419502	.	G	A	673.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
21939	chrY	13419515	.	G	A	767.48	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum
21940	chrY	13419521	.	G	T	1371.89	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
21941	chrY	13419534	.	G	A	7202.48	PASS	AC=25;AF=0.446;AN=56;BaseQRankSum
21942	chrY	13419549	.	A	T	69.16	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
21943	chrY	13419557	.	G	T	2750.43	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum
21944	chrY	13419558	.	A	G	2744.43	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum
21945	chrY	13419565	.	A	T	255.72	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQ
21946	chrY	13419566	.	T	A	268.06	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
21947	chrY	13419571	.	G	T,A	1269.63	PASS	AC=2,5;AF=0.053,0.132;AN=38;BaseQ
21948	chrY	13419576	.	C	T	1897.72	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum
21949	chrY	13419577	.	G	A,T	2919.96	PASS	AC=7,1;AF=0.184,0.026;AN=38;BaseQ
21950	chrY	13419580	.	C	T	798.41	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum
21951	chrY	13419591	.	G	A	238.13	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
21952	chrY	13419596	.	A	T	249.02	my_snp_filter	AC=5;AF=0.179;AN=28;BaseQ
21953	chrY	13419606	.	T	C	25888.31	PASS	AC=9;AF=0.500;AN=18;BaseQ
21954	chrY	13419611	.	T	G	26396.59	PASS	AC=9;AF=0.450;AN=20;BaseQ
21955	chrY	13419634	.	C	T	84.08	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
21956	chrY	13419644	.	C	T	85.08	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
21957	chrY	13419658	.	G	A	575.11	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
21958	chrY	13419689	.	C	G	31.21	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21959	chrY	13419693	.	G	T	34.21	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
21960	chrY	13419725	.	G	A	2079.90	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum
21961	chrY	13419756	.	T	C	5103.83	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum
21962	chrY	13419763	.	A	G	3914.03	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum
21963	chrY	13419764	.	G	A	3640.03	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum
21964	chrY	13419792	.	C	T	353.60	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum

21965	chrY	13419799	.	G	A	363.03	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
21966	chrY	13419800	.	A	G	1414.72	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
21967	chrY	13419822	.	G	A	121.71	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
21968	chrY	13419834	.	C	T	7858.32	PASS	AC=11;AF=0.220;AN=50;BaseQRankSum=
21969	chrY	13419859	.	C	T	53.18	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
21970	chrY	13419886	.	C	T	4352.58	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
21971	chrY	13419902	.	T	C	1232.36	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
21972	chrY	13419914	.	C	G	1047.08	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21973	chrY	13419925	.	T	C	593.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21974	chrY	13419931	.	T	C	578.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21975	chrY	13419933	.	A	G	54673.35	PASS	AC=40;AF=0.571;AN=70;BaseQ
21976	chrY	13419939	.	A	G	117.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21977	chrY	13419940	.	A	G	1508.92	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
21978	chrY	13419968	.	T	A	27378.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
21979	chrY	13419993	.	A	T	115.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21980	chrY	13420010	.	C	T	10310.38	PASS	AC=21;AF=0.300;AN=70;BaseQ
21981	chrY	13420028	.	A	G	6766.11	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
21982	chrY	13420035	.	C	A	62928.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
21983	chrY	13420038	.	C	T	6416.35	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
21984	chrY	13420044	.	A	G	2440.03	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
21985	chrY	13420047	.	C	T	18496.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
21986	chrY	13420067	.	C	A	38.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
21987	chrY	13420100	.	T	G	11910.62	PASS	AC=25;AF=0.357;AN=70;BaseQ
21988	chrY	13420103	.	C	G	8503.11	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
21989	chrY	13420115	.	C	T	13195.14	PASS	AC=26;AF=0.371;AN=70;BaseQ
21990	chrY	13420125	.	G	T	474.87	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
21991	chrY	13420140	.	T	C	96.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
21992	chrY	13420180	.	T	A	6026.87	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
21993	chrY	13420188	.	A	G	949.59	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
21994	chrY	13420192	.	G	A	70.12	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
21995	chrY	13420221	.	A	T	833.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
21996	chrY	13420246	.	C	G	2434.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
21997	chrY	13420273	.	G	T	10153.53	PASS	AC=18;AF=0.257;AN=70;BaseQ
21998	chrY	13420277	.	A	C	3326.44	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
21999	chrY	13420304	.	T	G	11192.60	PASS	AC=10;AF=0.143;AN=70;BaseQ
22000	chrY	13420305	.	T	G	11023.52	PASS	AC=11;AF=0.157;AN=70;BaseQ
22001	chrY	13420307	.	C	T	623.42	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22002	chrY	13420376	.	A	G	1218.60	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
22003	chrY	13420388	.	C	G	1114.94	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22004	chrY	13420406	.	C	T	1843.64	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22005	chrY	13420413	.	C	T	2229.84	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22006	chrY	13420460	.	T	C	75.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22007	chrY	13420490	.	T	A	682.94	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22008	chrY	13420523	.	T	C	227.05	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
22009	chrY	13420537	.	A	G	863.38	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
22010	chrY	13420540	.	C	T	671.64	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
22011	chrY	13420575	.	A	C,G	1276.47	PASS	AC=8,1;AF=0.118,0.015;AN=68;BaseQ
22012	chrY	13420611	.	T	C	33.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22013	chrY	13420617	.	A	C	7576.05	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22014	chrY	13420622	.	T	C	30.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22015	chrY	13420627	.	T	A	7381.90	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22016	chrY	13420641	.	A	G	370.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22017	chrY	13420646	.	T	C	288.21	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22018	chrY	13420650	.	G	A	8984.73	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22019	chrY	13420662	.	T	C	187.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22020	chrY	13420676	.	G	T	374.25	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22021	chrY	13420679	.	A	G	146.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22022	chrY	13420747	.	G	A	1000.88	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
22023	chrY	13420748	.	C	T	447.19	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
22024	chrY	13420767	.	T	C	99.68	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
22025	chrY	13420772	.	T	A	94.30	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
22026	chrY	13420802	.	T	A	10749.17	PASS	AC=13;AF=0.271;AN=48;BaseQ
22027	chrY	13420822	.	C	G	1387.51	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
22028	chrY	13420877	.	T	A	31315.64	PASS	AC=14;AF=0.438;AN=32;BaseQ
22029	chrY	13420882	.	G	A	3892.42	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
22030	chrY	13420907	.	C	T	1824.98	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
22031	chrY	13420970	.	C	A	5479.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22032	chrY	13420974	.	G	A	90.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
22033	chrY	13420985	.	T	C	33500.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
22034	chrY	13420987	.	A	C	33661.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
22035	chrY	13420992	.	C	T	52.33	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
22036	chrY	13420997	.	C	T	68.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
22037	chrY	13421000	.	G	A	536.19	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
22038	chrY	13421065	.	C	A	9416.52	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
22039	chrY	13421099	.	A	T	38.93	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
22040	chrY	13421101	.	G	A	366.99	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ

22041	chrY	13421207	.	G	A	9297.98	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
22042	chrY	13421249	.	T	C	3202.93	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
22043	chrY	13421306	.	C	G	69.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22044	chrY	13421327	.	T	A	5450.20	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22045	chrY	13421338	.	G	A	5756.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22046	chrY	13421341	.	G	A	1233.07	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22047	chrY	13421359	.	C	T	1112.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22048	chrY	13421361	.	G	A	3988.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22049	chrY	13421377	.	G	A	1342.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22050	chrY	13421386	.	G	A	1340.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22051	chrY	13421435	.	C	T	863.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
22052	chrY	13421440	.	A	T	382.95	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
22053	chrY	13421447	.	A	C	32.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
22054	chrY	13421461	.	G	A	5053.35	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
22055	chrY	13421471	.	C	G	1305.08	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
22056	chrY	13421495	.	C	T	1887.92	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
22057	chrY	13421503	.	A	G	1318.25	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
22058	chrY	13421539	.	A	G	2881.30	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
22059	chrY	13421593	.	T	C	2543.97	PASS	AC=13;AF=0.464;AN=28;BaseQRankSum=
22060	chrY	13421683	.	T	C	118.64	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22061	chrY	13421921	.	C	G	806.50	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
22062	chrY	13421922	.	C	T	806.50	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
22063	chrY	13421951	.	G	A	390.28	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
22064	chrY	13421970	.	C	T	332.72	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
22065	chrY	13421983	.	T	C	573.68	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
22066	chrY	13422008	.	C	A	104.11	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
22067	chrY	13422012	.	A	G	93.38	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
22068	chrY	13422031	.	A	C	233.09	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
22069	chrY	13422046	.	A	C	70.84	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
22070	chrY	13422054	.	A	T	262.13	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
22071	chrY	13422081	.	A	G	615.62	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
22072	chrY	13422099	.	A	G	887.46	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
22073	chrY	13422120	.	A	C	406.78	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
22074	chrY	13422140	.	T	A	614.02	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
22075	chrY	13422142	.	A	G	46.12	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
22076	chrY	13422172	.	A	T	1754	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
22077	chrY	13422222	.	T	C	1557.30	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
22078	chrY	13422277	.	C	T	3205.15	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQ
22079	chrY	13422428	.	G	C	1362.54	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
22080	chrY	13422478	.	G	C	1150.16	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22081	chrY	13422493	.	C	T	1240.45	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
22082	chrY	13422511	.	C	T	10042.08	PASS	AC=9;AF=0.450;AN=20;BaseQ
22083	chrY	13422542	.	G	A	1324.25	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22084	chrY	13422565	.	T	C	118.64	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
22085	chrY	13422568	.	C	A	189.09	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22086	chrY	13422610	.	G	A	7573.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
22087	chrY	13422644	.	T	A	1326.37	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22088	chrY	13422687	.	C	T	557.43	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
22089	chrY	13422688	.	A	G	7091.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
22090	chrY	13422711	.	G	A	731.43	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
22091	chrY	13422725	.	C	T	9086.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22092	chrY	13422749	.	G	A	736.81	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22093	chrY	13422750	.	T	G	9417.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22094	chrY	13422766	.	G	T	8741.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22095	chrY	13422800	.	T	A	46.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
22096	chrY	13422853	.	C	A	1068.39	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
22097	chrY	13422989	.	T	G	1997.65	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
22098	chrY	13422995	.	A	G	324.15	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
22099	chrY	13423011	.	T	A	8425.12	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
22100	chrY	13423071	.	A	G	1325.93	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
22101	chrY	13423074	.	A	T	2940.45	PASS	AC=22;AF=0.379;AN=58;BaseQRankSum=
22102	chrY	13423082	.	G	T	52.88	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
22103	chrY	13423083	.	G	A	2663.08	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
22104	chrY	13423089	.	G	T	2703.52	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
22105	chrY	13423091	.	A	T	21330.42	PASS	AC=26;AF=0.448;AN=58;BaseQ
22106	chrY	13423104	.	G	T	16226.91	PASS	AC=26;AF=0.406;AN=64;BaseQ
22107	chrY	13423122	.	G	T	743.03	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
22108	chrY	13423125	.	T	C	10411.70	PASS	AC=27;AF=0.422;AN=64;BaseQ
22109	chrY	13423160	.	A	T	17695.75	PASS	AC=32;AF=0.471;AN=68;BaseQ
22110	chrY	13423165	.	A	G	2786.20	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
22111	chrY	13423188	.	T	A	18094.15	PASS	AC=32;AF=0.471;AN=68;BaseQ
22112	chrY	13423189	.	T	C	146.18	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
22113	chrY	13423209	.	G	A	268.45	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
22114	chrY	13423242	.	C	T	1104.14	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
22115	chrY	13423244	.	G	T	1102.43	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
22116	chrY	13423259	.	T	C	1408.06	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=

22117	chrY	13423292	.	A	G	1203.34	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
22118	chrY	13423347	.	A	G	674.46	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
22119	chrY	13423359	.	A	G	307.57	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
22120	chrY	13423412	.	G	A	2749.17	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22121	chrY	13423448	.	T	C	202.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22122	chrY	13423457	.	C	T	5173.33	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
22123	chrY	13423471	.	G	T	7065.13	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
22124	chrY	13423496	.	C	A	5077.96	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
22125	chrY	13423520	.	G	T	375.91	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22126	chrY	13423535	.	T	C	235.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22127	chrY	13423541	.	C	G	215.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22128	chrY	13423550	.	G	C	217.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22129	chrY	13423560	.	C	T	26408.17	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
22130	chrY	13423569	.	G	A	1314.88	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22131	chrY	13423583	.	A	C	907.37	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22132	chrY	13423594	.	T	A	3189.84	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
22133	chrY	13423604	.	G	T	16817.15	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
22134	chrY	13423623	.	A	T	212.80	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
22135	chrY	13423630	.	T	G	79.52	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
22136	chrY	13423638	.	A	G	169.91	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
22137	chrY	13423671	.	T	C	10068.31	PASS	AC=17;AF=0.472;AN=36;BaseQRankSum=
22138	chrY	13423723	.	A	G	152.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
22139	chrY	13423746	.	A	G	1126.21	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22140	chrY	13423766	.	T	G	740.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22141	chrY	13423788	.	T	C	377.97	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQRankSum=
22142	chrY	13423792	.	G	A	10588.53	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
22143	chrY	13423793	.	C	T	1325.96	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22144	chrY	13423795	.	T	C,G	2380.14	PASS	AC=5,3;AF=0.278,0.167;AN=18;BaseQRankSum=
22145	chrY	13423800	.	T	G	1321.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
22146	chrY	13423813	.	G	A	1022.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22147	chrY	13423838	.	G	C	10683.40	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22148	chrY	13423845	.	T	A	144.45	PASS	AC=2;AF=0.077;AN=26;DP=931;FS=0.0
22149	chrY	13423850	.	C	T	6904.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22150	chrY	13423852	.	A	G	62.29	PASS	AC=2;AF=0.077;AN=26;DP=941;FS=0.0
22151	chrY	13423875	.	T	C	517.10	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
22152	chrY	13423897	.	A	T	277.79	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
22153	chrY	13423906	.	C	A	56.73	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQRankSum=
22154	chrY	13423919	.	C	T	270.43	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQRankSum=
22155	chrY	13423921	.	T	C	1685.58	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22156	chrY	13423944	.	C	T	51.15	PASS	AC=2;AF=0.067;AN=30;DP=997;FS=0.0
22157	chrY	13423946	.	A	C	11288.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
22158	chrY	13423948	.	A	G	18113.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22159	chrY	13423949	.	G	A	1366.46	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
22160	chrY	13423950	.	T	G	4147.54	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22161	chrY	13423994	.	A	T	1306.89	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
22162	chrY	13424025	.	C	A	47443.89	PASS	AC=13;AF=0.591;AN=22;BaseQRankSum=
22163	chrY	13424026	.	C	T	47485.89	PASS	AC=13;AF=0.591;AN=22;BaseQRankSum=
22164	chrY	13424038	.	G	C	573.39	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQRankSum=
22165	chrY	13424052	.	C	T	32.24	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQRankSum=
22166	chrY	13424057	.	T	C	291.12	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQRankSum=
22167	chrY	13424064	.	C	A	1023.66	my_snp_filter	AC=7;AF=0.206;AN=34;BaseQRankSum=
22168	chrY	13424090	.	G	A	158	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQRankSum=
22169	chrY	13424117	.	C	A	33662.57	PASS	AC=18;AF=0.818;AN=22;BaseQRankSum=
22170	chrY	13424119	.	A	G	52.29	PASS	AC=2;AF=0.063;AN=32;DP=1386;FS=0
22171	chrY	13424122	.	G	A	834.09	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
22172	chrY	13424124	.	C	A	332.90	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
22173	chrY	13424139	.	T	C	54.52	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
22174	chrY	13424175	.	C	A,G	1904.99	PASS	AC=1,7;AF=0.050,0.350;AN=20;BaseQRankSum=
22175	chrY	13424180	.	A	G	15944.29	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
22176	chrY	13424193	.	T	C	1140.58	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22177	chrY	13424198	.	T	G	577.44	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22178	chrY	13424215	.	G	A	42.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQRankSum=
22179	chrY	13424238	.	G	A	531.34	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22180	chrY	13424240	.	A	G	7859.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22181	chrY	13424247	.	T	C	7490.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22182	chrY	13424253	.	C	T	444.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
22183	chrY	13424254	.	A	G	7297.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22184	chrY	13424275	.	G	A	6947.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22185	chrY	13424276	.	G	C	779.52	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22186	chrY	13424285	.	C	T	7317.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22187	chrY	13424289	.	T	C	7396.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22188	chrY	13424305	.	T	G	415.27	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
22189	chrY	13424387	.	A	T	6696.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22190	chrY	13424392	.	G	A	23839.09	PASS	AC=14;AF=0.700;AN=20;BaseQRankSum=
22191	chrY	13424422	.	G	A	160.26	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
22192	chrY	13424446	.	A	C	94.23	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQRankSum=

22193	chrY	13424458	.	G	A	2228.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
22194	chrY	13424468	.	G	A	322.66	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
22195	chrY	13424478	.	G	C	270.69	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
22196	chrY	13424514	.	A	G	227.25	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
22197	chrY	13424536	.	T	G	191.02	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
22198	chrY	13424544	.	C	T	2373.41	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
22199	chrY	13424545	.	A	G,C	3544.14	PASS	AC=9,4;AF=0.375,0.167;AN=24;BaseQ
22200	chrY	13424582	.	T	G	18572.34	PASS	AC=11;AF=0.550;AN=20;BaseQ
22201	chrY	13424608	.	T	A	138.56	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
22202	chrY	13424609	.	A	C	11674.71	PASS	AC=9;AF=0.375;AN=24;BaseQ
22203	chrY	13424616	.	A	T	4777.39	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
22204	chrY	13424624	.	A	G	1730.05	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
22205	chrY	13424634	.	A	C	1721.93	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
22206	chrY	13424647	.	T	A	136.74	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
22207	chrY	13424666	.	G	C	2730.19	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
22208	chrY	13424669	.	G	C	22081.34	PASS	AC=11;AF=0.550;AN=20;BaseQ
22209	chrY	13424671	.	T	A	1799.61	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22210	chrY	13424702	.	G	T	1765.23	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22211	chrY	13424743	.	C	G	240.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22212	chrY	13424744	.	T	C	332.71	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
22213	chrY	13424754	.	T	C	7406.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22214	chrY	13424755	.	T	C	7406.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22215	chrY	13424763	.	T	A	129.76	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
22216	chrY	13424796	.	T	C	235.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
22217	chrY	13424806	.	C	T	4608.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22218	chrY	13424835	.	C	T	1262.43	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22219	chrY	13424873	.	T	C	9973.07	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22220	chrY	13424893	.	T	C	9009.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22221	chrY	13424894	.	G	C	297.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
22222	chrY	13424948	.	C	G	266.17	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
22223	chrY	13424981	.	C	G	5833.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22224	chrY	13424996	.	C	T	214.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
22225	chrY	13425021	.	T	C	464.18	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
22226	chrY	13425054	.	C	T	8264.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22227	chrY	13425075	.	G	A	1135.51	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22228	chrY	13425082	.	T	G	4618.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22229	chrY	13425087	.	T	A	4748.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22230	chrY	13425092	.	C	T	3326.33	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
22231	chrY	13425128	.	C	A	1098.95	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
22232	chrY	13425151	.	G	C	20753.07	PASS	AC=9;AF=0.450;AN=20;BaseQ
22233	chrY	13425175	.	G	A	7774.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22234	chrY	13425210	.	A	G	5672.81	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
22235	chrY	13425245	.	T	G	768.72	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22236	chrY	13425265	.	A	G	9611.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22237	chrY	13425266	.	G	C	9756.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22238	chrY	13425270	.	A	G	4627.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22239	chrY	13425273	.	G	A	1399.81	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22240	chrY	13425275	.	G	C	9369.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22241	chrY	13425283	.	C	A,T	5695.78	PASS	AC=7,2;AF=0.350,0.100;AN=20;BaseQ
22242	chrY	13425298	.	C	T	1553.68	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22243	chrY	13425310	.	A	G	1604.68	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22244	chrY	13425313	.	G	T	3834.39	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
22245	chrY	13425314	.	C	A	2120.46	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
22246	chrY	13425325	.	A	G	5521.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22247	chrY	13425330	.	T	G	5881.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22248	chrY	13425337	.	C	T	2067.48	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22249	chrY	13425353	.	G	T	6234.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22250	chrY	13425358	.	G	A	2460.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22251	chrY	13425405	.	A	G	8122.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
22252	chrY	13425480	.	G	C	13712.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
22253	chrY	13425514	.	G	T	84.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
22254	chrY	13425515	.	C	A	1618.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22255	chrY	13425536	.	G	T	8342.07	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22256	chrY	13425546	.	A	C	566.24	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
22257	chrY	13425574	.	A	G	3593.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22258	chrY	13425579	.	A	G	15544.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
22259	chrY	13425584	.	G	A	2525.07	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
22260	chrY	13425588	.	G	A	1306.90	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22261	chrY	13425590	.	G	A	3672.74	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
22262	chrY	13425603	.	A	G	2376.34	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
22263	chrY	13425619	.	C	T	2091.67	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
22264	chrY	13425683	.	A	G	9092.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22265	chrY	13425700	.	A	C	454.15	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
22266	chrY	13425713	.	G	A	536.76	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
22267	chrY	13425812	.	T	A	4598.35	PASS	AC=13;AF=0.542;AN=24;BaseQRankSum=
22268	chrY	13425829	.	T	C	7400.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=

22269	chrY	13425845	.	C	A	1643.64	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22270	chrY	13425862	.	A	G	2099.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
22271	chrY	13425866	.	A	G	5435.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22272	chrY	13425882	.	A	G	3330.41	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
22273	chrY	13425889	.	G	T	13999.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
22274	chrY	13425890	.	C	T	13843.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
22275	chrY	13425893	.	T	C	13032.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
22276	chrY	13425902	.	G	A	2036.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22277	chrY	13425908	.	T	G	485.72	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
22278	chrY	13425916	.	C	G	310.26	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22279	chrY	13425925	.	T	C	1023.62	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22280	chrY	13425950	.	C	T	8978.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22281	chrY	13426003	.	A	T	472.66	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22282	chrY	13426015	.	A	C	410.53	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
22283	chrY	13426033	.	G	C	746.01	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
22284	chrY	13426057	.	A	G	5659.78	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22285	chrY	13426070	.	T	C	3189.03	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22286	chrY	13426079	.	C	A	1975.82	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22287	chrY	13426093	.	T	G	1116.61	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
22288	chrY	13426152	.	G	A	388.83	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22289	chrY	13426182	.	G	A	45.06	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
22290	chrY	13426193	.	G	A	2748.89	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22291	chrY	13426238	.	A	G	1440.72	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
22292	chrY	13426245	.	A	T	550.52	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22293	chrY	13426259	.	G	C	887.60	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
22294	chrY	13426291	.	G	A	415.43	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
22295	chrY	13426298	.	T	C	2640.26	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
22296	chrY	13426306	.	C	T	357.83	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
22297	chrY	13426310	.	G	A	336.32	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
22298	chrY	13426317	.	T	G	344.19	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
22299	chrY	13426323	.	C	T	2126.20	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
22300	chrY	13426342	.	G	C,A	679.40	PASS	AC=3,3;AF=0.150,0.150;AN=20;BaseQ
22301	chrY	13426357	.	T	C	782.84	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
22302	chrY	13426360	.	T	G	44.22	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22303	chrY	13426425	.	A	G	30.04	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
22304	chrY	13426475	.	G	T	38.12	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
22305	chrY	13426563	.	C	G	64.56	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
22306	chrY	13426565	.	G	C	1816.79	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22307	chrY	13426582	.	G	A	55.24	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
22308	chrY	13426758	.	C	A	123.63	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
22309	chrY	13426784	.	G	A	84.92	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
22310	chrY	13426865	.	T	C	123.21	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
22311	chrY	13426904	.	T	C	33.41	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22312	chrY	13427008	.	T	A	629.80	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22313	chrY	13427053	.	A	T	627.86	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
22314	chrY	13427162	.	T	G	41.81	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22315	chrY	13427200	.	G	T	667.84	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22316	chrY	13427202	.	C	T	958.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22317	chrY	13427225	.	T	G	867.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22318	chrY	13427285	.	G	A	255.96	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
22319	chrY	13427292	.	A	T	37.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
22320	chrY	13427527	.	C	G	264.37	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22321	chrY	13427585	.	G	C	795.38	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
22322	chrY	13427597	.	G	A	1286.29	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
22323	chrY	13427598	.	C	A	1120.20	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
22324	chrY	13427612	.	T	G	1088.19	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
22325	chrY	13427635	.	C	T	869.15	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
22326	chrY	13427637	.	C	G	954.14	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
22327	chrY	13427671	.	T	C	97.64	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
22328	chrY	13427680	.	T	A,C	1657.11	my_snp_filter	AC=3,5;AF=0.125,0.208;AN=
22329	chrY	13427691	.	T	G	2612.73	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
22330	chrY	13427696	.	A	G	2664.73	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
22331	chrY	13427711	.	T	C	349.21	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
22332	chrY	13427739	.	C	G	2158.72	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22333	chrY	13427742	.	C	T	1283.91	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22334	chrY	13427753	.	G	A	79.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
22335	chrY	13427754	.	C	A	275.68	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
22336	chrY	13427774	.	T	C	1186.92	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
22337	chrY	13427793	.	T	G	581.25	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
22338	chrY	13427800	.	G	A	628.50	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
22339	chrY	13427819	.	G	C	158.05	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22340	chrY	13427838	.	A	G	18776.54	PASS	AC=10;AF=0.556;AN=18;BaseQ
22341	chrY	13427873	.	T	G	18268.31	PASS	AC=9;AF=0.500;AN=18;BaseQ
22342	chrY	13427884	.	C	T	7662.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22343	chrY	13427896	.	G	T	85.76	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
22344	chrY	13427940	.	A	C	5864.39	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=

22345	chrY	13427941	.	G	T	322.70	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
22346	chrY	13427950	.	G	T	119.90	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
22347	chrY	13427990	.	G	A	4009.19	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
22348	chrY	13428005	.	C	T	1933.91	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
22349	chrY	13428006	.	C	T	20547.45	PASS	AC=9;AF=0.346;AN=26;BaseQ
22350	chrY	13428007	.	A	T	65.15	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
22351	chrY	13428018	.	G	T	177.95	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
22352	chrY	13428020	.	T	A	729.66	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
22353	chrY	13428027	.	G	A	2545.45	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22354	chrY	13428034	.	A	C	2483.93	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
22355	chrY	13428035	.	G	C	2477.91	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
22356	chrY	13428048	.	T	G	36574.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
22357	chrY	13428067	.	C	T	36689.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
22358	chrY	13428068	.	T	A	2302.41	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
22359	chrY	13428072	.	A	T	35705.71	PASS	AC=11;AF=0.500;AN=22;BaseQ
22360	chrY	13428089	.	C	T	21743.21	PASS	AC=13;AF=0.464;AN=28;BaseQ
22361	chrY	13428100	.	C	A	211.43	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
22362	chrY	13428113	.	T	C	393.24	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
22363	chrY	13428120	.	A	G	127.58	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
22364	chrY	13428129	.	T	G	153.62	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
22365	chrY	13428138	.	C	T	20133.86	PASS	AC=11;AF=0.393;AN=28;BaseQ
22366	chrY	13428139	.	T	A	2228.45	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
22367	chrY	13428149	.	G	T	875.12	my_snp_filter	AC=5;AF=0.147;AN=34;BaseQ
22368	chrY	13428151	.	G	T	108.62	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
22369	chrY	13428163	.	C	T	1992.54	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
22370	chrY	13428165	.	C	T	13739.65	PASS	AC=10;AF=0.333;AN=30;BaseQ
22371	chrY	13428187	.	G	A	108.90	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
22372	chrY	13428202	.	C	T	708.44	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
22373	chrY	13428220	.	C	T	55.84	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
22374	chrY	13428285	.	C	G	525.48	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
22375	chrY	13428295	.	T	C	7243.50	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
22376	chrY	13428296	.	G	A	1776.15	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
22377	chrY	13428304	.	T	C	2398.13	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
22378	chrY	13428307	.	A	G	5366.54	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
22379	chrY	13428334	.	G	T	943.45	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22380	chrY	13428362	.	G	A	148.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22381	chrY	13428363	.	T	C	627.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22382	chrY	13428419	.	A	T	1415.55	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
22383	chrY	13428427	.	G	A	864.16	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22384	chrY	13428446	.	G	C	3306.01	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22385	chrY	13428454	.	T	C	3725.66	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22386	chrY	13428465	.	G	A	4845.93	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22387	chrY	13428467	.	T	C	4973.75	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22388	chrY	13428470	.	A	G	5337.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22389	chrY	13428473	.	C	A	166.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22390	chrY	13428474	.	C	T	5535.91	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22391	chrY	13428497	.	A	C	7215.85	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22392	chrY	13428498	.	G	A	295.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22393	chrY	13428501	.	C	G	7330.83	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22394	chrY	13428507	.	C	T	325.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22395	chrY	13428544	.	C	T	1130.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22396	chrY	13428589	.	C	T,*	1102.80	PASS	AC=3,3;AF=0.044,0.044;AN=68;BaseQ
22397	chrY	13428614	.	G	T	3054.02	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
22398	chrY	13428618	.	C	T	2980.51	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
22399	chrY	13428619	.	A	G	15019.74	my_snp_filter	AC=9;AF=0.180;AN=
22400	chrY	13428626	.	T	C	15402.64	my_snp_filter	AC=9;AF=0.265;AN=
22401	chrY	13428635	.	T	C	4263.79	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
22402	chrY	13428638	.	G	A	10993.47	PASS	AC=9;AF=0.265;AN=34;BaseQ
22403	chrY	13428677	.	A	G	19490.84	PASS	AC=10;AF=0.357;AN=28;BaseQ
22404	chrY	13428678	.	T	C	4986.58	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
22405	chrY	13428709	.	T	C	6628.79	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
22406	chrY	13428725	.	G	A	1855.11	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
22407	chrY	13428727	.	A	C	522.96	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
22408	chrY	13428740	.	A	T	660.21	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
22409	chrY	13428747	.	G	A	729.48	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
22410	chrY	13428750	.	C	G	1405.06	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
22411	chrY	13428791	.	C	T	3742.31	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
22412	chrY	13428793	.	C	T	902	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
22413	chrY	13428824	.	G	T	15770.74	PASS	AC=11;AF=0.458;AN=24;BaseQ
22414	chrY	13428914	.	G	T	8448.87	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
22415	chrY	13428918	.	G	C	3256.82	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
22416	chrY	13428929	.	C	A	144.52	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
22417	chrY	13428931	.	G	A	2483.02	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
22418	chrY	13428935	.	G	C,A	5772.93	PASS	AC=5,6;AF=0.147,0.176;AN=34;BaseQ
22419	chrY	13428965	.	C	T	7143.78	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
22420	chrY	13428972	.	G	A	10779.92	PASS	AC=16;AF=0.400;AN=40;BaseQ

22421	chrY	13428987	.	A	G	10782.51	PASS	AC=9;AF=0.281;AN=32;BaseQ
22422	chrY	13428989	.	G	A	666.80	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
22423	chrY	13429045	.	C	G	338.45	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
22424	chrY	13429058	.	G	A	54.63	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
22425	chrY	13429060	.	C	T	142.56	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
22426	chrY	13429069	.	A	G	1274.26	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
22427	chrY	13429082	.	C	A	55	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
22428	chrY	13429087	.	T	A	8755.09	my_snp_filter	AC=12;AF=0.375;AN=32;BaseQ
22429	chrY	13429088	.	G	A	1271.97	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
22430	chrY	13429093	.	C	G,A,T	29676.40	PASS	AC=16,4,2;AF=0.615,0.154
22431	chrY	13429101	.	C	A	1424	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
22432	chrY	13429119	.	G	T	367.34	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
22433	chrY	13429128	.	C	T	10907.62	my_snp_filter	AC=10;AF=0.333;AN=
22434	chrY	13429129	.	C	T	1383.19	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
22435	chrY	13429150	.	C	T	13132.15	my_snp_filter	AC=9;AF=0.321;AN=
22436	chrY	13429151	.	G	A	2464.20	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
22437	chrY	13429169	.	G	A	4661.69	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
22438	chrY	13429183	.	A	C	3864.82	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
22439	chrY	13429198	.	A	G	366.94	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
22440	chrY	13429218	.	G	T	523.97	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
22441	chrY	13429233	.	T	A	3452.09	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
22442	chrY	13429240	.	T	C	3227.04	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
22443	chrY	13429243	.	A	C	10350.91	PASS	AC=9;AF=0.375;AN=24;BaseQ
22444	chrY	13429251	.	T	G	7229.46	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
22445	chrY	13429264	.	A	C	7179.71	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
22446	chrY	13429273	.	G	A	381.15	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
22447	chrY	13429301	.	T	C	6514.32	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
22448	chrY	13429311	.	T	G	6415.16	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
22449	chrY	13429329	.	T	C	1263.88	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
22450	chrY	13429367	.	G	A	3817.40	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
22451	chrY	13429381	.	C	T	361.49	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
22452	chrY	13429392	.	A	G	4553.64	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
22453	chrY	13429426	.	G	T	833.01	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
22454	chrY	13429437	.	C	A	4109.04	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
22455	chrY	13429451	.	T	C	2937.57	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
22456	chrY	13429473	.	C	T	1846.11	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
22457	chrY	13429475	.	A	T	1851.42	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22458	chrY	13429476	.	G	T	1851.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22459	chrY	13429479	.	A	G	3094.22	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22460	chrY	13429485	.	T	C	479.66	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22461	chrY	13429527	.	T	C	2911.21	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22462	chrY	13429530	.	C	A	2918.32	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22463	chrY	13429540	.	T	C	709.11	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22464	chrY	13429573	.	T	C	1600.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22465	chrY	13429577	.	C	G	427.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22466	chrY	13429625	.	G	A	211.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22467	chrY	13429635	.	C	T	1089.84	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22468	chrY	13429642	.	T	C	794.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22469	chrY	13429662	.	A	G	866.33	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22470	chrY	13429666	.	A	C	830.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22471	chrY	13429694	.	G	T	138.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22472	chrY	13429729	.	A	T	2772.18	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
22473	chrY	13429757	.	G	C	4746.93	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
22474	chrY	13429780	.	T	C	340.45	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
22475	chrY	13429828	.	A	C	4695.07	PASS	AC=11;AF=0.324;AN=34;BaseQRankSum=
22476	chrY	13429829	.	G	T	369.68	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
22477	chrY	13429848	.	T	C	6014.69	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum=
22478	chrY	13429871	.	C	G	5442.66	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
22479	chrY	13429893	.	G	A	814.40	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
22480	chrY	13429931	.	G	C	371.80	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
22481	chrY	13429955	.	C	T	33.58	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
22482	chrY	13429956	.	G	A	50.80	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
22483	chrY	13430007	.	G	A	136.67	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
22484	chrY	13430055	.	T	C	3867.38	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQ
22485	chrY	13430061	.	C	G	826.60	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
22486	chrY	13430062	.	G	A	927.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22487	chrY	13430072	.	C	A	244.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22488	chrY	13430081	.	C	A	894.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22489	chrY	13430122	.	G	A	2716.37	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22490	chrY	13430127	.	A	C	3332.51	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
22491	chrY	13430128	.	A	G	2643.40	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22492	chrY	13430148	.	G	T	165.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22493	chrY	13430155	.	C	T	196.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22494	chrY	13430166	.	A	G	1328.88	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22495	chrY	13430173	.	C	G	63.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22496	chrY	13430282	.	C	T	399.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

22497	chrY	13430355	.	C	A	3203.90	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
22498	chrY	13430360	.	A	T	3363.67	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
22499	chrY	13430362	.	A	G	971.25	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
22500	chrY	13430398	.	A	C	525.21	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
22501	chrY	13430405	.	G	T	416.10	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
22502	chrY	13430435	.	C	T	69.03	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
22503	chrY	13430440	.	A	T,C	295.93	my_snp_filter	AC=3,1;AF=0.100,0.033;AN=
22504	chrY	13430499	.	A	C	1398.36	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
22505	chrY	13430500	.	C	G	203.88	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
22506	chrY	13430612	.	G	A	6530.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
22507	chrY	13430623	.	G	A	31.04	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
22508	chrY	13430670	.	G	A	4050.14	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
22509	chrY	13430685	.	G	T	348.43	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
22510	chrY	13430721	.	A	G	215.09	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
22511	chrY	13430736	.	G	A	1002.03	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
22512	chrY	13430737	.	C	T	1017.25	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
22513	chrY	13430753	.	C	A	1063.61	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
22514	chrY	13430781	.	G	A	9002.79	PASS	AC=36;AF=0.581;AN=62;BaseQRankSum=
22515	chrY	13430807	.	G	A	7750.06	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
22516	chrY	13430819	.	C	T	327.50	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
22517	chrY	13430833	.	T	C	5464.37	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
22518	chrY	13430863	.	G	T	277.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
22519	chrY	13430865	.	C	G	102.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22520	chrY	13430874	.	C	T	29375.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22521	chrY	13430882	.	G	A	1346.10	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22522	chrY	13430916	.	G	A	17698.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22523	chrY	13430933	.	A	T	7441.37	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
22524	chrY	13430952	.	T	C	25604.15	PASS	AC=32;AF=0.457;AN=70;BaseQ
22525	chrY	13430973	.	C	T	22402.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
22526	chrY	13430985	.	G	C	18602.66	PASS	AC=31;AF=0.443;AN=70;BaseQ
22527	chrY	13430993	.	G	T	3689.78	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
22528	chrY	13431018	.	A	G	25208.53	my_snp_filter	AC=34;AF=0.486;AN=
22529	chrY	13431019	.	A	T	1000.64	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22530	chrY	13431028	.	A	T	20141.26	PASS	AC=34;AF=0.486;AN=70;BaseQ
22531	chrY	13431035	.	T	C	508.23	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22532	chrY	13431096	.	G	A	1691.50	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22533	chrY	13431116	.	A	G	7066.67	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22534	chrY	13431121	.	T	G	7106.41	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22535	chrY	13431175	.	G	T	322.54	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
22536	chrY	13431221	.	A	T	4069.83	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
22537	chrY	13431270	.	A	C	2729.97	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
22538	chrY	13431319	.	A	G	1011.33	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
22539	chrY	13431333	.	C	T	12915.34	PASS	AC=11;AF=0.550;AN=20;BaseQ
22540	chrY	13431352	.	C	A	2367.85	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
22541	chrY	13431439	.	T	C	6334.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22542	chrY	13431448	.	G	C	1813.91	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22543	chrY	13431451	.	T	G	962.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22544	chrY	13431470	.	A	T	7655.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22545	chrY	13431476	.	A	G	3527.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22546	chrY	13431498	.	C	A	3404.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22547	chrY	13431505	.	T	C	6389.01	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
22548	chrY	13431509	.	T	A	2972.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22549	chrY	13431548	.	G	T	697.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
22550	chrY	13431579	.	T	A	3502.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
22551	chrY	13431607	.	T	C	3300.61	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
22552	chrY	13431648	.	T	A	633.29	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22553	chrY	13431666	.	G	T	3595.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
22554	chrY	13431677	.	A	G	3029.24	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
22555	chrY	13431742	.	T	C	1141.22	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
22556	chrY	13431769	.	A	T	51.50	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
22557	chrY	13431776	.	C	G	51.60	PASS	AC=2;AF=0.077;AN=26;DP=261;FS=0.0
22558	chrY	13431778	.	A	G	401.74	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
22559	chrY	13431838	.	G	A	1422.78	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
22560	chrY	13431841	.	G	T	2668.41	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
22561	chrY	13431857	.	C	T	1572.94	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
22562	chrY	13431879	.	C	A	3453.06	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
22563	chrY	13431937	.	G	A	1093.88	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
22564	chrY	13431951	.	C	A	2033.81	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
22565	chrY	13431995	.	G	C	807.83	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22566	chrY	13432089	.	C	A	5528.80	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
22567	chrY	13432091	.	C	T	882.28	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22568	chrY	13432094	.	A	C	5554.64	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
22569	chrY	13432116	.	G	A	6717.57	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
22570	chrY	13432118	.	C	G	2695.51	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
22571	chrY	13432248	.	C	G	4394.50	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
22572	chrY	13432315	.	T	C	1961.81	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ

22573	chrY	13432328	.	G	A	62.19	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
22574	chrY	13432346	.	T	C	152.90	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
22575	chrY	13432366	.	C	A	30.61	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
22576	chrY	13432381	.	T	C	571.99	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
22577	chrY	13432411	.	T	C	7605.50	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
22578	chrY	13432431	.	T	C	17211.29	my_snp_filter	AC=14;AF=0.206;AN=70;BaseQ
22579	chrY	13432467	.	A	G	1143.32	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
22580	chrY	13432473	.	C	G	1493.75	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
22581	chrY	13432482	.	G	T	462.44	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
22582	chrY	13432494	.	C	T	5175.22	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
22583	chrY	13432505	.	G	A	8978.36	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
22584	chrY	13432512	.	T	C	791.56	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22585	chrY	13432516	.	T	C	7871.96	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
22586	chrY	13432517	.	C	G	49839.78	PASS	AC=35;AF=0.500;AN=70;BaseQ
22587	chrY	13432525	.	C	A	799.03	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
22588	chrY	13432529	.	T	A	431.34	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
22589	chrY	13432551	.	G	T	16819.74	PASS	AC=35;AF=0.500;AN=70;BaseQ
22590	chrY	13432553	.	C	T	76427.72	PASS	AC=42;AF=0.600;AN=70;BaseQ
22591	chrY	13432571	.	G	T	49484.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22592	chrY	13432575	.	C	T	1285.45	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
22593	chrY	13432596	.	G	A	438.65	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22594	chrY	13432636	.	A	G	312.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22595	chrY	13432652	.	A	C	628.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22596	chrY	13432661	.	T	G	158648.50	PASS	AC=52;AF=0.743;AN=70;BaseQ
22597	chrY	13432695	.	G	C	130780.68	PASS	AC=34;AF=0.500;AN=68;BaseQ
22598	chrY	13432701	.	C	T	39684.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
22599	chrY	13432706	.	C	T	117165.67	PASS	AC=34;AF=0.500;AN=68;BaseQ
22600	chrY	13432713	.	T	C	975.85	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
22601	chrY	13432721	.	C	A	3878.37	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
22602	chrY	13432725	.	G	A	79744.69	PASS	AC=34;AF=0.500;AN=68;BaseQ
22603	chrY	13432742	.	A	T	42038.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
22604	chrY	13432748	.	T	C	230.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22605	chrY	13432756	.	A	G	8545.22	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
22606	chrY	13432763	.	G	C	52941.25	PASS	AC=36;AF=0.514;AN=70;BaseQ
22607	chrY	13432768	.	G	T	195.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22608	chrY	13432790	.	A	G	768.04	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
22609	chrY	13432793	.	G	A	101.01	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
22610	chrY	13432801	.	C	T,A	8896.55	PASS	AC=4,17;AF=0.057,0.243;AN=70;BaseQ
22611	chrY	13432802	.	G	A	1476.32	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
22612	chrY	13432808	.	C	A	537.92	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22613	chrY	13432815	.	T	A	35993.93	PASS	AC=26;AF=0.382;AN=68;BaseQ
22614	chrY	13432823	.	C	T	34014.07	PASS	AC=27;AF=0.386;AN=70;BaseQ
22615	chrY	13432824	.	G	A	1122.57	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
22616	chrY	13432888	.	G	C	2112.36	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
22617	chrY	13432902	.	A	G	91.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22618	chrY	13432905	.	A	G	40.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22619	chrY	13432923	.	C	A	4700.71	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
22620	chrY	13432941	.	G	A	71.66	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22621	chrY	13432946	.	T	G	21824	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
22622	chrY	13432958	.	T	C	694.83	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
22623	chrY	13432969	.	G	T	2114.72	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
22624	chrY	13432987	.	A	G	72647.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22625	chrY	13432989	.	G	T	72776.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22626	chrY	13432990	.	G	A	41730.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22627	chrY	13432996	.	C	A	53.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22628	chrY	13433007	.	T	C	1160.50	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
22629	chrY	13433055	.	T	G	134.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22630	chrY	13433066	.	T	C	90.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22631	chrY	13433080	.	T	G	207.75	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
22632	chrY	13433103	.	C	T	165.17	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
22633	chrY	13433114	.	A	T	26484.89	PASS	AC=19;AF=0.413;AN=46;BaseQ
22634	chrY	13433153	.	C	A	44.34	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
22635	chrY	13433185	.	C	T	98.35	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
22636	chrY	13433189	.	T	C	63.72	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
22637	chrY	13433217	.	A	G	111.34	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
22638	chrY	13433221	.	C	A	60.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
22639	chrY	13433235	.	G	A	99.68	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
22640	chrY	13433240	.	C	A	6739.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22641	chrY	13433242	.	G	A	806.24	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
22642	chrY	13433250	.	C	G	274.14	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
22643	chrY	13433309	.	T	C	2803.15	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22644	chrY	13433313	.	T	C	515.50	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
22645	chrY	13433319	.	G	A	8379.23	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum
22646	chrY	13433322	.	G	A	509.78	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
22647	chrY	13433350	.	C	G	13586.10	PASS	AC=14;AF=0.583;AN=24;BaseQ
22648	chrY	13433352	.	G	T	272.09	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ

22649	chrY	13433420	.	G	A,T	3579.13	PASS	AC=6,2;AF=0.273,0.091;AN=22;BaseQ
22650	chrY	13433421	.	T	C	3245.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
22651	chrY	13433434	.	A	G	638.92	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
22652	chrY	13433441	.	A	G	1852.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22653	chrY	13433475	.	A	T	2065.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22654	chrY	13433485	.	A	G	224.54	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22655	chrY	13433489	.	A	T	24857.48	PASS	AC=12;AF=0.667;AN=18;BaseQ
22656	chrY	13433497	.	T	A	343.78	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22657	chrY	13433522	.	T	A	1475.71	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22658	chrY	13433561	.	C	A	1132.38	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22659	chrY	13433566	.	T	C	1081.52	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
22660	chrY	13433567	.	C	T	3260.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
22661	chrY	13433586	.	C	A	5682.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22662	chrY	13433601	.	T	A	3036.53	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22663	chrY	13433615	.	T	C	603.43	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
22664	chrY	13433618	.	T	A,*	2118.28	PASS	AC=4,4;AF=0.222,0.222;AN=18;BaseQ
22665	chrY	13433620	.	T	A,*	2146.31	PASS	AC=7,2;AF=0.389,0.111;AN=18;BaseQ
22666	chrY	13433622	.	T	A	9035.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22667	chrY	13433624	.	T	C	334.22	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22668	chrY	13433632	.	T	C	8028.31	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
22669	chrY	13433641	.	T	C	1935.53	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
22670	chrY	13433643	.	T	C	95.23	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22671	chrY	13433649	.	T	C	71.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
22672	chrY	13433651	.	C	A	1745.61	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
22673	chrY	13433655	.	T	A	2225.29	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22674	chrY	13433681	.	G	C	1394.05	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
22675	chrY	13433693	.	G	C	319.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22676	chrY	13433704	.	A	G	321.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22677	chrY	13433706	.	A	G	3088.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22678	chrY	13433720	.	C	T,A	1553.77	PASS	AC=1,6;AF=0.056,0.333;AN=18;BaseQ
22679	chrY	13433737	.	G	A	552.80	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
22680	chrY	13433744	.	C	A	1184.55	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22681	chrY	13433751	.	C	T	1218.64	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22682	chrY	13433754	.	T	G	14147.54	PASS	AC=10;AF=0.556;AN=18;BaseQ
22683	chrY	13433762	.	C	T	990.72	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22684	chrY	13433866	.	C	A	6962.31	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
22685	chrY	13433889	.	T	A,G	6621.31	my_snp_filter	AC=3,6;AF=0.167,0.333;AN=
22686	chrY	13433950	.	T	C	119.77	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22687	chrY	13433964	.	G	A	722.10	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
22688	chrY	13434022	.	T	C	1618.13	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22689	chrY	13434024	.	C	T	181.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
22690	chrY	13434070	.	A	C	208.43	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
22691	chrY	13434108	.	T	G	1345.87	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
22692	chrY	13434131	.	C	T	377.07	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
22693	chrY	13434145	.	C	T	169.58	PASS	AC=4;AF=0.250;AN=16;BaseQRankSum=
22694	chrY	13434179	.	A	G	96.70	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22695	chrY	13434251	.	T	C	417.69	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
22696	chrY	13434319	.	C	A	1313.70	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
22697	chrY	13434370	.	C	T	5338.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
22698	chrY	13434390	.	A	T	840.61	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
22699	chrY	13434423	.	G	A	780.28	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
22700	chrY	13434431	.	C	G	3105.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
22701	chrY	13434478	.	C	T	1516.55	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
22702	chrY	13434482	.	A	G	1554.47	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
22703	chrY	13434496	.	A	G	1138.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
22704	chrY	13434512	.	G	A	80.50	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
22705	chrY	13434514	.	T	C	2110.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
22706	chrY	13434566	.	A	T	193.29	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
22707	chrY	13434589	.	T	C	208.80	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
22708	chrY	13434605	.	T	C	267.05	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22709	chrY	13434609	.	C	A	90.11	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22710	chrY	13434613	.	A	C	7394.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
22711	chrY	13434622	.	A	G	212.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22712	chrY	13434630	.	T	C	346.95	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
22713	chrY	13434634	.	A	T	206.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22714	chrY	13434638	.	C	T	285.05	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
22715	chrY	13434645	.	A	G	1155.31	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
22716	chrY	13434646	.	T	A	241.72	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
22717	chrY	13434702	.	T	A	11511.79	PASS	AC=9;AF=0.500;AN=18;BaseQ
22718	chrY	13434792	.	A	G	461.58	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
22719	chrY	13434839	.	C	T	53.15	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
22720	chrY	13434850	.	T	C	3999.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
22721	chrY	13434851	.	T	G	13208.84	PASS	AC=9;AF=0.375;AN=24;BaseQ
22722	chrY	13434867	.	T	C	715.56	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
22723	chrY	13434893	.	C	T	4873.43	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
22724	chrY	13434897	.	T	C,*	255.91	PASS	AC=1,1;AF=0.033,0.033;AN=30;BaseQ

22725	chrY	13434900	.	T	A	5929.69	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
22726	chrY	13434927	.	A	C	6333.73	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ
22727	chrY	13434946	.	C	A	7095.49	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
22728	chrY	13434949	.	C	G	91.33	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
22729	chrY	13434969	.	A	T	857.32	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
22730	chrY	13434970	.	G	A	1064.92	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
22731	chrY	13434973	.	T	A	43.76	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
22732	chrY	13434981	.	A	T	3449.78	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
22733	chrY	13434989	.	T	A	89.47	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
22734	chrY	13435000	.	C	A	2719.95	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
22735	chrY	13435002	.	A	G	107.64	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
22736	chrY	13435007	.	C	T	425.06	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
22737	chrY	13435011	.	C	A	2984.22	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
22738	chrY	13435042	.	C	T	2440.97	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22739	chrY	13435050	.	A	T	548.52	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22740	chrY	13435061	.	G	T	464.25	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22741	chrY	13435064	.	G	C	6331.37	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
22742	chrY	13435066	.	A	G	1944.68	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
22743	chrY	13435078	.	T	A	1849.80	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
22744	chrY	13435079	.	G	A	343.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22745	chrY	13435088	.	A	C	37.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22746	chrY	13435120	.	G	A	1897.66	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22747	chrY	13435129	.	C	G	1342.48	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22748	chrY	13435132	.	G	T	1974.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22749	chrY	13435138	.	C	G	4035.81	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
22750	chrY	13435159	.	A	T	3784.68	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22751	chrY	13435166	.	T	C	2985.81	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22752	chrY	13435180	.	G	A	22329.07	PASS	AC=28;AF=0.400;AN=70;BaseQ
22753	chrY	13435187	.	A	C	22587.35	PASS	AC=32;AF=0.457;AN=70;BaseQ
22754	chrY	13435193	.	T	C	838.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22755	chrY	13435197	.	C	T	9106.92	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
22756	chrY	13435287	.	C	T	19115.24	PASS	AC=36;AF=0.514;AN=70;BaseQ
22757	chrY	13435301	.	A	C	1451.61	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22758	chrY	13435360	.	A	G	21767.72	PASS	AC=33;AF=0.471;AN=70;BaseQ
22759	chrY	13435362	.	A	C	21790.82	PASS	AC=33;AF=0.471;AN=70;BaseQ
22760	chrY	13435371	.	T	C	6857.17	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
22761	chrY	13435396	.	C	T	1396.96	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22762	chrY	13435429	.	T	C	2630.67	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
22763	chrY	13435442	.	T	C	744.43	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
22764	chrY	13435468	.	T	A	17948.98	PASS	AC=25;AF=0.446;AN=56;BaseQ
22765	chrY	13435470	.	G	A	4823.96	my_snp_filter	AC=19;AF=0.317;AN=60;BaseQ
22766	chrY	13435485	.	A	G	766.37	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
22767	chrY	13435513	.	A	T	11305.25	my_snp_filter	AC=33;AF=0.532;AN=70;BaseQ
22768	chrY	13435524	.	C	T	11755.01	my_snp_filter	AC=31;AF=0.484;AN=70;BaseQ
22769	chrY	13435543	.	A	G	5754.54	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
22770	chrY	13435552	.	C	A	28333.75	PASS	AC=39;AF=0.574;AN=68;BaseQ
22771	chrY	13435582	.	G	T	56.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22772	chrY	13435583	.	G	C	59879.32	PASS	AC=42;AF=0.600;AN=70;BaseQ
22773	chrY	13435593	.	G	A	193.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
22774	chrY	13435604	.	T	A	4384.48	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
22775	chrY	13435606	.	A	G	901.61	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22776	chrY	13435607	.	C	T	1641.50	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
22777	chrY	13435627	.	G	C	16009.68	PASS	AC=24;AF=0.343;AN=70;BaseQ
22778	chrY	13435668	.	A	T	12126.79	PASS	AC=13;AF=0.186;AN=70;BaseQ
22779	chrY	13435669	.	T	C	12101.78	PASS	AC=13;AF=0.186;AN=70;BaseQ
22780	chrY	13435672	.	T	G	6653.10	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
22781	chrY	13435679	.	T	C	66333.38	PASS	AC=35;AF=0.500;AN=70;BaseQ
22782	chrY	13435680	.	G	A,T	7939.76	my_snp_filter	AC=7,19;AF=0.100,0.271;AN=
22783	chrY	13435690	.	C	T,A	2646.20	my_snp_filter	AC=7,3;AF=0.100,0.043;AN=
22784	chrY	13435704	.	C	T	115347.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22785	chrY	13435705	.	G	T	2066.80	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
22786	chrY	13435713	.	T	C	10625.21	PASS	AC=10;AF=0.143;AN=70;BaseQ
22787	chrY	13435717	.	G	A	507	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22788	chrY	13435719	.	G	A	141492.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22789	chrY	13435721	.	C	A	140407.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22790	chrY	13435724	.	T	A	2147.70	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
22791	chrY	13435729	.	A	T	95.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22792	chrY	13435741	.	A	G	480.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22793	chrY	13435745	.	G	A	1411.93	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
22794	chrY	13435748	.	C	G	1660.23	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
22795	chrY	13435750	.	C	T	59856.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22796	chrY	13435774	.	G	A	783.47	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22797	chrY	13435775	.	T	G	224.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22798	chrY	13435788	.	C	A	27748.94	PASS	AC=35;AF=0.500;AN=70;BaseQ
22799	chrY	13435795	.	C	T,*	3812.84	PASS	AC=8,1;AF=0.114,0.014;AN=70;BaseQ
22800	chrY	13435796	.	G	A,*	610.55	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ

22801	chrY	13435815	.	G	C	30594.07	PASS	AC=38;AF=0.594;AN=64;BaseQ
22802	chrY	13435826	.	A	C	408.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
22803	chrY	13435833	.	A	G	11769.71	PASS	AC=29;AF=0.483;AN=60;BaseQ
22804	chrY	13435837	.	G	A	16496.37	PASS	AC=31;AF=0.517;AN=60;BaseQ
22805	chrY	13435880	.	G	A	1509.51	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
22806	chrY	13435893	.	T	A	366.39	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
22807	chrY	13435909	.	A	G	2184.08	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
22808	chrY	13435916	.	A	T	11848.49	PASS	AC=10;AF=0.172;AN=58;BaseQ
22809	chrY	13435961	.	C	G	220.41	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
22810	chrY	13435964	.	T	C	145.89	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
22811	chrY	13435969	.	A	T	931.01	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
22812	chrY	13435976	.	A	G	992.93	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
22813	chrY	13435985	.	G	T	98.08	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
22814	chrY	13436037	.	A	G	65.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22815	chrY	13436038	.	C	T	575.86	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
22816	chrY	13436041	.	T	C	2677.90	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
22817	chrY	13436051	.	T	C	168.62	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22818	chrY	13436062	.	G	A	12987.40	PASS	AC=20;AF=0.286;AN=70;BaseQ
22819	chrY	13436089	.	C	T	43.38	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22820	chrY	13436098	.	A	T	139.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22821	chrY	13436103	.	G	A	47.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22822	chrY	13436108	.	C	G	818.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22823	chrY	13436126	.	T	C	4612.73	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
22824	chrY	13436143	.	T	C	17863.35	PASS	AC=35;AF=0.500;AN=70;BaseQ
22825	chrY	13436191	.	T	G	1116.47	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22826	chrY	13436206	.	G	A	1508.23	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
22827	chrY	13436229	.	A	T	6382.80	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
22828	chrY	13436242	.	G	A	2409.50	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22829	chrY	13436255	.	C	T	178.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22830	chrY	13436262	.	G	T	3608.82	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
22831	chrY	13436277	.	C	T	139.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22832	chrY	13436283	.	G	T	4060.43	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
22833	chrY	13436306	.	A	T	13288.81	my_snp_filter	AC=30;AF=0.429;AN=70;BaseQ
22834	chrY	13436328	.	C	T	50.61	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22835	chrY	13436340	.	A	G	577.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22836	chrY	13436352	.	G	A	84.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22837	chrY	13436353	.	C	G	6166.46	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22838	chrY	13436359	.	G	A	44.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22839	chrY	13436369	.	A	C	64.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22840	chrY	13436375	.	A	C	4469.35	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22841	chrY	13436376	.	T	A	41.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22842	chrY	13436390	.	A	G	340.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22843	chrY	13436405	.	T	A	6539.83	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22844	chrY	13436414	.	G	C	6599.07	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22845	chrY	13436441	.	C	A	2856.21	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
22846	chrY	13436447	.	C	T,A	3436.76	PASS	AC=8,2;AF=0.118,0.029;AN=68;BaseQ
22847	chrY	13436463	.	G	T	2661.38	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
22848	chrY	13436543	.	T	C	1342.04	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
22849	chrY	13436551	.	T	G	8923.44	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
22850	chrY	13436568	.	A	G	9098.21	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
22851	chrY	13436610	.	G	T	330.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22852	chrY	13436662	.	A	T	17630.16	PASS	AC=39;AF=0.557;AN=70;BaseQ
22853	chrY	13436701	.	T	A	813.08	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
22854	chrY	13436739	.	G	C	1516.68	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
22855	chrY	13436778	.	C	T	4270.96	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
22856	chrY	13436802	.	G	A	2092.36	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
22857	chrY	13436805	.	T	A	2334.56	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
22858	chrY	13436813	.	G	A	3668.91	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
22859	chrY	13436814	.	A	G	2067.99	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
22860	chrY	13436829	.	C	T	2636.57	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
22861	chrY	13436841	.	A	G	2070.18	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
22862	chrY	13436864	.	A	G	18471.29	PASS	AC=30;AF=0.469;AN=64;BaseQ
22863	chrY	13436901	.	T	C	1554.58	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
22864	chrY	13436936	.	C	T	2817.97	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
22865	chrY	13436968	.	G	T	485.11	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
22866	chrY	13436992	.	T	A	4000.75	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
22867	chrY	13436996	.	G	C	1707.43	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
22868	chrY	13437011	.	T	C	195.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22869	chrY	13437012	.	A	T,G	4621.22	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
22870	chrY	13437017	.	C	A	387.82	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22871	chrY	13437029	.	G	C,T	25384.23	PASS	AC=36,3;AF=0.514,0.043;AN=70;BaseQ
22872	chrY	13437045	.	C	A	512.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22873	chrY	13437061	.	C	T	69.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22874	chrY	13437065	.	A	C	874.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22875	chrY	13437075	.	G	C	1153.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22876	chrY	13437076	.	G	A	35594.62	PASS	AC=37;AF=0.529;AN=70;BaseQ

22877	chrY	13437078	.	A	C	399.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22878	chrY	13437084	.	G	A	1240.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22879	chrY	13437099	.	C	T	7134.88	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
22880	chrY	13437109	.	T	C	3372.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22881	chrY	13437129	.	G	A	5691.99	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
22882	chrY	13437179	.	G	A	2292.84	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
22883	chrY	13437185	.	G	T	210.26	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22884	chrY	13437186	.	A	G	2658.02	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
22885	chrY	13437192	.	C	A	3442.36	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22886	chrY	13437203	.	G	T	40175.27	PASS	AC=42;AF=0.600;AN=70;BaseQ
22887	chrY	13437215	.	A	G	2097.29	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
22888	chrY	13437222	.	C	A	5063.84	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22889	chrY	13437240	.	A	C,G	47243.24	PASS	AC=20,35;AF=0.286,0.500;AN=70;BaseQ
22890	chrY	13437247	.	G	C	2909.43	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22891	chrY	13437248	.	G	A	5288.87	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
22892	chrY	13437261	.	C	G	132.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22893	chrY	13437273	.	G	T	6299.49	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
22894	chrY	13437286	.	A	T	240.45	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
22895	chrY	13437307	.	A	G	1238.37	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22896	chrY	13437321	.	G	A	52.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22897	chrY	13437326	.	G	C	14874.76	PASS	AC=25;AF=0.368;AN=68;BaseQ
22898	chrY	13437332	.	G	A	968.12	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22899	chrY	13437355	.	T	A	152.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22900	chrY	13437365	.	T	C	174.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
22901	chrY	13437390	.	G	C	1582.12	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
22902	chrY	13437416	.	A	C	65.65	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
22903	chrY	13437443	.	G	T	505.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22904	chrY	13437465	.	C	A	1777.56	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22905	chrY	13437467	.	T	C	4434.33	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
22906	chrY	13437468	.	A	T	9392.46	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22907	chrY	13437476	.	C	G	970.84	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22908	chrY	13437477	.	T	C	39935.26	PASS	AC=35;AF=0.500;AN=70;BaseQ
22909	chrY	13437498	.	T	G	11067.79	PASS	AC=29;AF=0.414;AN=70;BaseQ
22910	chrY	13437519	.	T	C	12522.90	PASS	AC=26;AF=0.371;AN=70;BaseQ
22911	chrY	13437531	.	T	C	13252.11	PASS	AC=26;AF=0.371;AN=70;BaseQ
22912	chrY	13437540	.	C	A	115.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22913	chrY	13437550	.	G	A	491.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22914	chrY	13437555	.	G	C	5133.28	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22915	chrY	13437560	.	C	T	921.80	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22916	chrY	13437563	.	A	T	7394.31	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
22917	chrY	13437578	.	A	G	9030.63	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
22918	chrY	13437589	.	T	C	60353.17	PASS	AC=36;AF=0.514;AN=70;BaseQ
22919	chrY	13437605	.	T	C	588.17	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22920	chrY	13437628	.	T	G	49476.44	PASS	AC=37;AF=0.529;AN=70;BaseQ
22921	chrY	13437646	.	C	A	4810.92	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
22922	chrY	13437662	.	C	T	4070.01	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
22923	chrY	13437673	.	A	C	1855.92	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
22924	chrY	13437684	.	T	A	5504.61	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
22925	chrY	13437694	.	G	T	23620.74	PASS	AC=33;AF=0.471;AN=70;BaseQ
22926	chrY	13437704	.	A	T	24350.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
22927	chrY	13437713	.	C	T	22401.29	PASS	AC=32;AF=0.457;AN=70;BaseQ
22928	chrY	13437719	.	G	A	1640.52	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
22929	chrY	13437739	.	C	G	28645.87	PASS	AC=34;AF=0.486;AN=70;BaseQ
22930	chrY	13437740	.	A	C	63838.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22931	chrY	13437746	.	C	T	2837.33	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
22932	chrY	13437785	.	A	T	4729.53	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
22933	chrY	13437799	.	A	G	6863.71	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
22934	chrY	13437834	.	T	A	11913.32	PASS	AC=20;AF=0.286;AN=70;BaseQ
22935	chrY	13437841	.	G	T	11607.93	PASS	AC=21;AF=0.300;AN=70;BaseQ
22936	chrY	13437856	.	C	T	14778.91	PASS	AC=24;AF=0.343;AN=70;BaseQ
22937	chrY	13437867	.	G	A	52.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22938	chrY	13437877	.	T	G	3543.53	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
22939	chrY	13437888	.	G	T	4608.57	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
22940	chrY	13437897	.	T	A	57822.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22941	chrY	13437914	.	A	T	39.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
22942	chrY	13437920	.	C	A	211.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
22943	chrY	13437928	.	G	C,T	11529.73	PASS	AC=13,20;AF=0.186,0.286;AN=70;BaseQ
22944	chrY	13437934	.	G	A	170.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
22945	chrY	13437942	.	C	T	1564.43	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
22946	chrY	13437946	.	G	T	693.15	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
22947	chrY	13437959	.	G	A	62282.64	PASS	AC=38;AF=0.543;AN=70;BaseQ
22948	chrY	13437963	.	C	G	5812.45	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
22949	chrY	13437997	.	T	C	4241.89	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
22950	chrY	13438008	.	C	T	175.03	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
22951	chrY	13438034	.	G	T	3463.73	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
22952	chrY	13438045	.	A	G	154.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

22953	chrY	13438073	.	A	C	9117.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22954	chrY	13438120	.	G	A	2984	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
22955	chrY	13438180	.	T	G	153.97	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
22956	chrY	13438181	.	C	G	3321.05	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
22957	chrY	13438212	.	G	A	304.97	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
22958	chrY	13438225	.	G	C	1324.04	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
22959	chrY	13438229	.	C	G,T	5717.17	PASS	AC=10,2;AF=0.227,0.045;AN=44;BaseQ
22960	chrY	13438241	.	C	T	277.45	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
22961	chrY	13438263	.	T	C	764.23	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
22962	chrY	13438288	.	T	A	261.99	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
22963	chrY	13438298	.	C	T	147.86	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
22964	chrY	13438321	.	G	T	757.33	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
22965	chrY	13438325	.	C	T	1146.53	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22966	chrY	13438361	.	T	C	403.12	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
22967	chrY	13438391	.	T	C	1060.13	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
22968	chrY	13438417	.	C	A	36.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
22969	chrY	13438422	.	C	A	1126.09	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
22970	chrY	13438425	.	T	G	15645.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
22971	chrY	13438462	.	A	C	484.29	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
22972	chrY	13438474	.	C	T	34.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22973	chrY	13438487	.	T	C	273.79	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22974	chrY	13438489	.	C	T	288.51	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
22975	chrY	13438497	.	C	G	279.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22976	chrY	13438512	.	G	A	3891.07	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
22977	chrY	13438513	.	T	C	3836.46	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
22978	chrY	13438516	.	A	G	289.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
22979	chrY	13438546	.	T	C	15000.13	PASS	AC=62;AF=0.886;AN=70;BaseQ
22980	chrY	13438585	.	A	T	1140.20	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
22981	chrY	13438589	.	T	G	3971.91	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
22982	chrY	13438688	.	G	T	2841.24	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
22983	chrY	13438710	.	G	A	13064.39	PASS	AC=38;AF=0.543;AN=70;BaseQ
22984	chrY	13438753	.	C	T	5879.02	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
22985	chrY	13438756	.	T	G	23740.71	PASS	AC=36;AF=0.514;AN=70;BaseQ
22986	chrY	13438759	.	T	C	9144.36	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
22987	chrY	13438761	.	G	T	14539.16	PASS	AC=34;AF=0.486;AN=70;BaseQ
22988	chrY	13438825	.	T	G	8384.57	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
22989	chrY	13438854	.	A	T	10084.17	PASS	AC=29;AF=0.414;AN=70;BaseQ
22990	chrY	13438917	.	T	C	5067.76	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
22991	chrY	13438923	.	C	G	19980.13	PASS	AC=37;AF=0.529;AN=70;BaseQ
22992	chrY	13438943	.	A	G	5335.38	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
22993	chrY	13438971	.	A	G	4918.78	my_snp_filter	AC=23;AF=0.348;AN=66;BaseQ
22994	chrY	13438993	.	C	T	3356.35	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
22995	chrY	13439004	.	C	T	303.07	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
22996	chrY	13439028	.	C	T	1324.01	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
22997	chrY	13439079	.	G	A	654.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
22998	chrY	13439086	.	G	A	630.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
22999	chrY	13439090	.	G	A	3345.56	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
23000	chrY	13439093	.	C	A	4709.83	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23001	chrY	13439104	.	G	A	4610.86	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23002	chrY	13439118	.	G	A	4563.59	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23003	chrY	13439137	.	A	C	466.85	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23004	chrY	13439140	.	G	T	1488.76	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23005	chrY	13439165	.	G	A	1576.70	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23006	chrY	13439195	.	A	C	1548.80	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
23007	chrY	13439235	.	T	G	58.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
23008	chrY	13439247	.	A	G	40.72	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
23009	chrY	13439250	.	T	G	6581.50	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
23010	chrY	13439252	.	A	G	4311.42	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
23011	chrY	13439268	.	T	C	1336.79	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
23012	chrY	13439319	.	G	A	530.37	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
23013	chrY	13439340	.	C	T	1148.27	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23014	chrY	13439417	.	T	C	2692.38	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
23015	chrY	13439426	.	A	G	423.16	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
23016	chrY	13439458	.	G	A	152.25	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
23017	chrY	13439462	.	C	A	241.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
23018	chrY	13439463	.	A	C	227.99	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
23019	chrY	13439470	.	T	C	220.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
23020	chrY	13439472	.	T	C	331.27	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
23021	chrY	13439474	.	T	C	367.22	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
23022	chrY	13439479	.	G	A	2485.88	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
23023	chrY	13439504	.	T	C	346.83	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
23024	chrY	13439515	.	C	T	106.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
23025	chrY	13439544	.	T	G	454.89	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
23026	chrY	13439572	.	G	C	1685.25	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
23027	chrY	13439584	.	C	G	1327.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23028	chrY	13439585	.	G	A	1737.78	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=

23029	chrY	13439595	.	G	T	31.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
23030	chrY	13439610	.	A	T	1250.95	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
23031	chrY	13439611	.	C	T	867.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
23032	chrY	13439635	.	C	A	1156.51	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
23033	chrY	13439640	.	G	A	210.41	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
23034	chrY	13439647	.	C	G	6685.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
23035	chrY	13439650	.	C	T	6103.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
23036	chrY	13439676	.	G	C	2056.12	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
23037	chrY	13439700	.	G	T	2826.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
23038	chrY	13439719	.	A	G	13146.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
23039	chrY	13439738	.	T	C	15741.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
23040	chrY	13439741	.	G	A	3678.19	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
23041	chrY	13439742	.	G	A	16200.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
23042	chrY	13439749	.	C	A	5912.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
23043	chrY	13439768	.	G	A	607.56	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
23044	chrY	13439778	.	G	T	570.61	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
23045	chrY	13439803	.	T	C	1403.48	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
23046	chrY	13439817	.	T	C	1492.35	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
23047	chrY	13439821	.	A	C	1553.33	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
23048	chrY	13439828	.	A	T	1637.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23049	chrY	13439846	.	C	T	1506.81	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
23050	chrY	13439897	.	T	C	11441.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23051	chrY	13439904	.	T	A	11180.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23052	chrY	13439940	.	G	T	76.41	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
23053	chrY	13439990	.	C	G	822.63	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
23054	chrY	13440024	.	C	A	520.69	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
23055	chrY	13440029	.	T	C	815	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
23056	chrY	13440063	.	A	C	365.94	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
23057	chrY	13440077	.	A	G	858.84	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
23058	chrY	13440098	.	G	C	78.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
23059	chrY	13440105	.	T	C	78.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
23060	chrY	13440112	.	A	T	6987.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23061	chrY	13440125	.	C	G	75.31	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
23062	chrY	13440140	.	C	A	83.80	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
23063	chrY	13440146	.	C	T	956.73	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
23064	chrY	13440150	.	A	G	76.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
23065	chrY	13440166	.	G	T	497.70	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
23066	chrY	13440172	.	C	A	348.96	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
23067	chrY	13440194	.	T	C	8715.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23068	chrY	13440197	.	G	C	8659.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23069	chrY	13440224	.	G	A	286.78	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
23070	chrY	13440225	.	T	C	7326.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23071	chrY	13440270	.	C	A	3366.81	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
23072	chrY	13440286	.	C	T	1350.17	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
23073	chrY	13440310	.	T	C	3377.43	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
23074	chrY	13440350	.	A	C	13501.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
23075	chrY	13440371	.	A	G	13771.11	PASS	AC=9;AF=0.409;AN=22;BaseQ
23076	chrY	13440430	.	C	G	41.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
23077	chrY	13440454	.	A	G	8854.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
23078	chrY	13440520	.	G	C	15959.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23079	chrY	13440531	.	G	A	15189.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23080	chrY	13440536	.	C	G	16160.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23081	chrY	13440555	.	C	A	2419.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
23082	chrY	13440567	.	C	A	2480.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
23083	chrY	13440573	.	A	C	2346.47	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
23084	chrY	13440575	.	T	G	15729.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
23085	chrY	13440600	.	T	C	15643.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
23086	chrY	13440626	.	G	A	11866.19	PASS	AC=10;AF=0.500;AN=20;BaseQ
23087	chrY	13440658	.	T	C	4400.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23088	chrY	13440701	.	G	A	3564.49	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
23089	chrY	13440731	.	A	C	12854.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23090	chrY	13440734	.	C	T	310.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
23091	chrY	13440744	.	A	T	1782.67	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
23092	chrY	13440774	.	G	A	2105.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
23093	chrY	13440798	.	A	C	16865.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23094	chrY	13440814	.	A	G	16566.52	PASS	AC=11;AF=0.550;AN=20;BaseQ
23095	chrY	13440850	.	C	T	4298.26	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
23096	chrY	13440870	.	A	T	4359.38	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23097	chrY	13440873	.	A	G	1018.41	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
23098	chrY	13440887	.	C	A	3763.13	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
23099	chrY	13440910	.	C	A	12169.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
23100	chrY	13440911	.	A	G	12085.34	PASS	AC=9;AF=0.450;AN=20;BaseQ
23101	chrY	13440945	.	G	T	899.73	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
23102	chrY	13440967	.	C	A	10733.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
23103	chrY	13440983	.	G	A	10882.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
23104	chrY	13441019	.	A	G	4640.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ

23105	chrY	13441095	.	A	G	115.99	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
23106	chrY	13441099	.	T	A	7605.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
23107	chrY	13441111	.	G	A	1817.13	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23108	chrY	13441157	.	A	C	6797.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
23109	chrY	13441158	.	T	A	6797.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
23110	chrY	13441177	.	A	G	2251.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
23111	chrY	13441185	.	C	A	4165.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
23112	chrY	13441201	.	G	T	2298.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23113	chrY	13441262	.	A	G	682.17	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
23114	chrY	13441273	.	A	G	1610.78	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
23115	chrY	13441315	.	C	T	381.90	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
23116	chrY	13441324	.	A	C,G	1553.54	PASS	AC=6,2;AF=0.300,0.100;AN=20;BaseQ
23117	chrY	13441327	.	G	T	1127.42	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
23118	chrY	13441331	.	A	G	2122.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
23119	chrY	13441335	.	G	A	211.26	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
23120	chrY	13441336	.	A	G	211.44	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
23121	chrY	13441354	.	G	A	1089.50	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
23122	chrY	13441365	.	C	T	781.17	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
23123	chrY	13441533	.	C	T	329.35	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
23124	chrY	13441576	.	T	C	33.34	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
23125	chrY	13441588	.	A	T	808.13	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
23126	chrY	13441590	.	T	A	1293.16	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
23127	chrY	13441641	.	A	T	852.92	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
23128	chrY	13441690	.	T	A	235.76	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
23129	chrY	13441827	.	A	G	442.94	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
23130	chrY	13441838	.	T	C	300.99	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
23131	chrY	13441873	.	T	C	198.35	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
23132	chrY	13441881	.	C	T	2274.43	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
23133	chrY	13441915	.	T	C	302.87	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
23134	chrY	13441944	.	A	G	34.91	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
23135	chrY	13441970	.	A	T	599.44	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23136	chrY	13442006	.	T	C	3461.06	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
23137	chrY	13442007	.	G	A	30.88	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23138	chrY	13442009	.	C	T	30.88	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23139	chrY	13442026	.	T	C	2731.03	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
23140	chrY	13442038	.	T	G	2384.21	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
23141	chrY	13442069	.	C	G	150.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23142	chrY	13442108	.	A	T	200.92	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
23143	chrY	13442124	.	G	A	1451.27	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
23144	chrY	13442143	.	C	T	1073.36	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
23145	chrY	13442158	.	C	G	397.08	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
23146	chrY	13442160	.	A	G	1287.29	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
23147	chrY	13442182	.	G	C	7627.80	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=
23148	chrY	13442215	.	C	A	827.14	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
23149	chrY	13442243	.	T	C	2123.50	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
23150	chrY	13442361	.	T	G	8636	PASS	AC=33;AF=0.550;AN=60;BaseQRankSum=
23151	chrY	13442410	.	T	C	1825.06	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
23152	chrY	13442438	.	C	G	14286.50	PASS	AC=29;AF=0.453;AN=64;BaseQ
23153	chrY	13442447	.	T	C,A	19944.61	PASS	AC=25,4;AF=0.391,0.063;AN=
23154	chrY	13442455	.	A	T	5429.77	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
23155	chrY	13442461	.	A	T	5484.14	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
23156	chrY	13442524	.	G	A	81.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23157	chrY	13442527	.	G	A	4828.28	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
23158	chrY	13442553	.	T	C	6226.37	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
23159	chrY	13442554	.	T	C	15964.61	PASS	AC=34;AF=0.486;AN=70;BaseQ
23160	chrY	13442558	.	A	G	57.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23161	chrY	13442559	.	C	T	1235.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23162	chrY	13442571	.	C	A	4812.80	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
23163	chrY	13442604	.	T	G	3557.90	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23164	chrY	13442607	.	A	G	3561.08	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23165	chrY	13442637	.	A	T	12726.06	PASS	AC=29;AF=0.439;AN=66;BaseQ
23166	chrY	13442638	.	G	A	4695.03	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
23167	chrY	13442649	.	C	A	894.44	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
23168	chrY	13442657	.	C	G	660.44	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
23169	chrY	13442662	.	A	T	8658.71	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
23170	chrY	13442671	.	A	G	241.86	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
23171	chrY	13442672	.	G	A	7660.58	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
23172	chrY	13442675	.	A	C	203.02	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
23173	chrY	13442676	.	G	A	7350.96	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
23174	chrY	13442696	.	G	A	5490.04	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
23175	chrY	13442738	.	C	T	593.94	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
23176	chrY	13442741	.	C	A	579.78	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
23177	chrY	13442747	.	G	C	8872.29	PASS	AC=12;AF=0.286;AN=42;BaseQRankSum=
23178	chrY	13442753	.	T	C	1435.59	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
23179	chrY	13442777	.	G	A	2013.89	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
23180	chrY	13442780	.	C	T	4259.62	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=

23181	chrY	13442781	.	T	G	4279.62	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
23182	chrY	13442782	.	G	C	331.56	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
23183	chrY	13442790	.	A	T	2091.36	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
23184	chrY	13442791	.	G	A	4423.23	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
23185	chrY	13442807	.	G	A	51.07	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
23186	chrY	13442810	.	A	T	1668.10	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
23187	chrY	13442815	.	C	G	53.29	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
23188	chrY	13442816	.	C	T	49.98	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
23189	chrY	13442817	.	A	T	2865.68	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
23190	chrY	13442851	.	G	C	121.35	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
23191	chrY	13442859	.	T	C	187.65	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
23192	chrY	13442899	.	A	C	6706.77	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
23193	chrY	13442930	.	G	C	355.58	my_snp_filter	AC=11;AF=0.162;AN=68;Base
23194	chrY	13442980	.	A	G	13797.69	PASS	AC=35;AF=0.500;AN=70;Base
23195	chrY	13443034	.	A	G	23081.72	PASS	AC=35;AF=0.500;AN=70;Base
23196	chrY	13443133	.	T	G	17632.73	PASS	AC=35;AF=0.500;AN=70;Base
23197	chrY	13443145	.	G	A	1092.47	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23198	chrY	13443155	.	T	C	16515.72	PASS	AC=34;AF=0.486;AN=70;Base
23199	chrY	13443162	.	G	A	2361.66	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
23200	chrY	13443172	.	C	T	2195.32	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
23201	chrY	13443187	.	C	A	3041.39	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
23202	chrY	13443188	.	C	G	20282.22	PASS	AC=32;AF=0.457;AN=70;Base
23203	chrY	13443191	.	G	C	20164.22	PASS	AC=32;AF=0.457;AN=70;Base
23204	chrY	13443238	.	G	T	11131.74	PASS	AC=35;AF=0.500;AN=70;Base
23205	chrY	13443271	.	A	T	333.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23206	chrY	13443283	.	C	A	288.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23207	chrY	13443296	.	C	A	939.40	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23208	chrY	13443303	.	G	A	6753.70	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23209	chrY	13443315	.	A	T	5539.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23210	chrY	13443341	.	A	G	1271.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23211	chrY	13443381	.	T	G,A	1884.06	PASS	AC=6,1;AF=0.088,0.015;AN=68;BaseQ
23212	chrY	13443395	.	T	A	3396.36	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
23213	chrY	13443479	.	T	A	1035.13	my_snp_filter	AC=8;AF=0.160;AN=50;BaseQ
23214	chrY	13443484	.	A	G	3788.41	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
23215	chrY	13443530	.	A	T	2808.37	PASS	AC=12;AF=0.261;AN=46;BaseQRankSum=
23216	chrY	13443531	.	T	C	4255.83	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
23217	chrY	13443535	.	T	G	2219.38	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
23218	chrY	13443555	.	C	T	1408.53	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
23219	chrY	13443577	.	G	A	343.96	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
23220	chrY	13443599	.	A	T	2055.56	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
23221	chrY	13443606	.	T	C	1595.57	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
23222	chrY	13443618	.	C	A	1102.74	PASS	AC=13;AF=0.260;AN=50;BaseQRankSum=
23223	chrY	13443626	.	A	G	76.19	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
23224	chrY	13443630	.	G	A	1424.83	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23225	chrY	13443637	.	C	T	5223.51	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=
23226	chrY	13443640	.	T	C	173.54	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
23227	chrY	13443666	.	G	A	687.42	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
23228	chrY	13443690	.	G	C	2209.37	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
23229	chrY	13443722	.	A	G	4726.72	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
23230	chrY	13443738	.	G	T	5373.45	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
23231	chrY	13443741	.	G	C	890.68	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
23232	chrY	13443743	.	G	A	160.15	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
23233	chrY	13443755	.	C	G	177.22	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
23234	chrY	13443763	.	T	C	79.99	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
23235	chrY	13443764	.	G	A	2168.20	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
23236	chrY	13443773	.	G	A	34.53	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
23237	chrY	13443778	.	G	T	399.54	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
23238	chrY	13443806	.	G	A	12754.10	PASS	AC=24;AF=0.343;AN=70;Base
23239	chrY	13443846	.	T	A	2160.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23240	chrY	13443853	.	G	A	65.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23241	chrY	13443863	.	A	G	15793.84	PASS	AC=31;AF=0.443;AN=70;Base
23242	chrY	13443879	.	A	G	193.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23243	chrY	13443880	.	T	C	2178.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23244	chrY	13443886	.	G	A	2269.54	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23245	chrY	13443889	.	G	T	2249.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23246	chrY	13443895	.	A	G	2263.25	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23247	chrY	13443903	.	A	C	2106.28	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23248	chrY	13443916	.	C	T	329.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23249	chrY	13443917	.	G	A	2262.17	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
23250	chrY	13443938	.	C	T	2345.60	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
23251	chrY	13443947	.	C	T	8867.55	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
23252	chrY	13443955	.	A	G	10929.09	PASS	AC=23;AF=0.329;AN=70;Base
23253	chrY	13443966	.	A	G	1399.92	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
23254	chrY	13443968	.	A	T	1477.40	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23255	chrY	13444006	.	G	A	187.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23256	chrY	13444024	.	T	C	2425.71	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=

23257	chrY	13444155	.	A	T	6198.92	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
23258	chrY	13444235	.	C	T	5403.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
23259	chrY	13444243	.	T	C	228.93	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
23260	chrY	13444307	.	C	A	5019.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
23261	chrY	13444325	.	C	T	2799.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
23262	chrY	13444334	.	G	T	1164.41	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
23263	chrY	13444397	.	C	G	2847.97	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
23264	chrY	13444404	.	G	T	1024.45	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
23265	chrY	13444408	.	A	G	3183.87	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
23266	chrY	13444466	.	G	C	3177.56	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
23267	chrY	13444485	.	A	T	3799.93	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
23268	chrY	13444550	.	T	C	1082.99	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
23269	chrY	13444554	.	C	T	473.44	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
23270	chrY	13444574	.	A	C	3730.23	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
23271	chrY	13444577	.	C	T	922.99	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
23272	chrY	13444580	.	C	A	13015.47	my_snp_filter	AC=9;AF=0.155;AN=
23273	chrY	13444588	.	T	G	5248.45	my_snp_filter	AC=11;AF=0.172;AN=64;Base
23274	chrY	13444595	.	C	A	574.03	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
23275	chrY	13444614	.	T	A	1140.26	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23276	chrY	13444623	.	G	A	1764.21	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
23277	chrY	13444645	.	C	T	23338.08	PASS	AC=38;AF=0.543;AN=70;Base
23278	chrY	13444651	.	C	A	796.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23279	chrY	13444667	.	G	T	962.98	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23280	chrY	13444674	.	G	A	4648.52	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23281	chrY	13444719	.	C	T	49140.80	PASS	AC=41;AF=0.586;AN=70;Base
23282	chrY	13444722	.	T	C	4148.27	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23283	chrY	13444728	.	G	A	23593.72	PASS	AC=35;AF=0.500;AN=70;Base
23284	chrY	13444743	.	C	A	3233.06	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23285	chrY	13444761	.	G	T	424.69	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23286	chrY	13444785	.	C	G	54.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23287	chrY	13444808	.	T	C	81.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23288	chrY	13444829	.	T	C,G	500.81	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQ
23289	chrY	13444838	.	C	T	12943.84	PASS	AC=30;AF=0.441;AN=68;Base
23290	chrY	13444840	.	A	C	189.46	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23291	chrY	13444843	.	C	T	147.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23292	chrY	13444855	.	T	C	8604.38	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
23293	chrY	13444857	.	C	T	64.22	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
23294	chrY	13444868	.	T	G	94.69	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
23295	chrY	13444883	.	T	C	6374.70	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
23296	chrY	13444898	.	T	A	1831.09	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
23297	chrY	13444904	.	A	T	17448.88	my_snp_filter	AC=13;AF=0.310;AN=
23298	chrY	13444905	.	T	A	17418.80	my_snp_filter	AC=13;AF=0.310;AN=
23299	chrY	13444937	.	A	G	9335.66	my_snp_filter	AC=11;AF=0.204;AN=54;Base
23300	chrY	13444948	.	T	C	189.09	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
23301	chrY	13444958	.	T	C	193.05	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
23302	chrY	13444976	.	G	A	4447.67	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
23303	chrY	13444978	.	C	A	4399.15	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
23304	chrY	13444981	.	C	T	8009.95	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
23305	chrY	13445003	.	A	T	593.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23306	chrY	13445010	.	C	A	345.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23307	chrY	13445014	.	A	G	241.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23308	chrY	13445015	.	T	A	4702.06	my_snp_filter	AC=10;AF=0.147;AN=68;Base
23309	chrY	13445025	.	C	T	847.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23310	chrY	13445031	.	T	G	205.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23311	chrY	13445049	.	G	A	1640.47	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23312	chrY	13445075	.	T	G	178.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23313	chrY	13445080	.	T	C	8079.57	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
23314	chrY	13445083	.	A	G	11649.15	PASS	AC=29;AF=0.414;AN=70;Base
23315	chrY	13445098	.	C	G	2326.48	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
23316	chrY	13445111	.	T	A	781.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23317	chrY	13445118	.	C	G	73.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23318	chrY	13445125	.	T	A	34.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23319	chrY	13445142	.	A	G	695.51	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
23320	chrY	13445143	.	C	G	692.58	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
23321	chrY	13445157	.	C	G	2424.94	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
23322	chrY	13445160	.	G	T	6896.02	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
23323	chrY	13445249	.	C	T	10173.43	PASS	AC=28;AF=0.400;AN=70;Base
23324	chrY	13445252	.	T	G	99.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23325	chrY	13445261	.	T	C	11167.73	PASS	AC=27;AF=0.386;AN=70;Base
23326	chrY	13445262	.	G	A	407.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23327	chrY	13445266	.	A	T	69.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23328	chrY	13445296	.	A	G	755.88	my_snp_filter	AC=18;AF=0.265;AN=68;Base
23329	chrY	13445300	.	C	G	3263.80	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
23330	chrY	13445305	.	C	T	1353.58	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
23331	chrY	13445309	.	C	A	1215.93	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
23332	chrY	13445320	.	T	A	1325.78	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=

23333	chrY	13445375	.	A	G	716.57	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
23334	chrY	13445389	.	A	G	1016.76	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
23335	chrY	13445416	.	A	T	4008.21	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
23336	chrY	13445419	.	A	T	733.21	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
23337	chrY	13445421	.	T	C	4314.89	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
23338	chrY	13445422	.	C	T	725.64	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
23339	chrY	13445432	.	A	T	4947.39	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
23340	chrY	13445437	.	A	G	6501.40	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
23341	chrY	13445465	.	C	G	19818.51	PASS	AC=10;AF=0.500;AN=20;BaseQRankSum=
23342	chrY	13445481	.	G	T	8679.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
23343	chrY	13445496	.	A	G	394.62	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
23344	chrY	13445506	.	C	A	640.60	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQRankSum=
23345	chrY	13445510	.	T	C	110.91	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQRankSum=
23346	chrY	13445513	.	C	G	6275.94	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
23347	chrY	13445528	.	C	G	200.25	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
23348	chrY	13445531	.	G	T	1814.49	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQRankSum=
23349	chrY	13445546	.	A	G	6007.84	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
23350	chrY	13445553	.	C	T	3277.81	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
23351	chrY	13445555	.	A	C	1545.26	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQRankSum=
23352	chrY	13445557	.	T	G	346.97	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQRankSum=
23353	chrY	13445566	.	A	G	3098.17	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQRankSum=
23354	chrY	13445571	.	T	C	328.08	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQRankSum=
23355	chrY	13445593	.	C	A	14824.66	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
23356	chrY	13445618	.	T	C	15765.20	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=
23357	chrY	13445632	.	T	G	57200.13	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
23358	chrY	13445635	.	G	A	62905.15	PASS	AC=11;AF=0.324;AN=34;BaseQRankSum=
23359	chrY	13445641	.	C	A	1070.86	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
23360	chrY	13445646	.	T	C	3738.01	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
23361	chrY	13445647	.	C	T	41.15	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
23362	chrY	13445666	.	A	G	2443.79	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
23363	chrY	13445705	.	C	T	223.86	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
23364	chrY	13445720	.	T	C	167.17	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
23365	chrY	13445731	.	G	A,*	22303.02	PASS	AC=33,3;AF=0.485,0.044;AN=70;BaseQRankSum=
23366	chrY	13445760	.	T	G	1461.60	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
23367	chrY	13445764	.	A	G	547.74	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
23368	chrY	13445768	.	T	C	1570.52	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23369	chrY	13445770	.	C	A	73.24	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
23370	chrY	13445771	.	T	C	1259.93	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23371	chrY	13445784	.	T	C	725.21	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
23372	chrY	13445787	.	T	A,G	57954.14	PASS	AC=31,5;AF=0.443,0.071;AN=70;BaseQRankSum=
23373	chrY	13445805	.	T	G	96306.54	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
23374	chrY	13445818	.	C	G,T	82758.84	PASS	AC=31,5;AF=0.443,0.071;AN=70;BaseQRankSum=
23375	chrY	13445827	.	T	A	224.63	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23376	chrY	13445839	.	C	T	12494.48	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
23377	chrY	13445843	.	C	T,G	24982.11	PASS	AC=13,6;AF=0.186,0.086;AN=70;BaseQRankSum=
23378	chrY	13445844	.	T	C	23805.88	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23379	chrY	13445847	.	A	C	4206.28	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum=
23380	chrY	13445858	.	A	C	103497.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23381	chrY	13445859	.	T	C	95219.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23382	chrY	13445863	.	G	C	139.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
23383	chrY	13445869	.	G	C	1886.58	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
23384	chrY	13445872	.	C	G	17973.59	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23385	chrY	13445873	.	A	T	886.53	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
23386	chrY	13445879	.	C	A,T	73926.74	PASS	AC=18,22;AF=0.257,0.314;AN=70;BaseQRankSum=
23387	chrY	13445883	.	C	T	877.44	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
23388	chrY	13445886	.	G	T	11439.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23389	chrY	13445897	.	C	T	116.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23390	chrY	13445898	.	A	C	15510.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23391	chrY	13445900	.	C	A,*	42645.57	PASS	AC=25,8;AF=0.357,0.114;AN=70;BaseQRankSum=
23392	chrY	13445903	.	A	T	10486.41	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23393	chrY	13445910	.	A	C	57.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23394	chrY	13445911	.	G	A	24073.06	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23395	chrY	13445920	.	C	A	79063.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
23396	chrY	13445929	.	G	C	2617.13	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
23397	chrY	13445937	.	C	T	787.48	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
23398	chrY	13445943	.	G	T	1041.69	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
23399	chrY	13445957	.	C	G	5363.88	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
23400	chrY	13445969	.	G	T	1687.11	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23401	chrY	13445976	.	G	T	1686.81	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23402	chrY	13445980	.	T	A	1584.54	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23403	chrY	13445999	.	T	G	6771.91	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23404	chrY	13446001	.	G	C,T	1537.45	my_snp_filter	AC=4,5;AF=0.057,0.071;AN=70;BaseQRankSum=
23405	chrY	13446009	.	G	A	37162.51	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
23406	chrY	13446012	.	G	A	1458.18	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
23407	chrY	13446017	.	C	T	227.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23408	chrY	13446025	.	C	T	2346.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

23409	chrY	13446029	.	T	A	3308.92	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
23410	chrY	13446037	.	A	T	3488.75	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
23411	chrY	13446042	.	T	C	47592.67	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
23412	chrY	13446045	.	A	G	19442.71	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23413	chrY	13446052	.	T	G	21156.13	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
23414	chrY	13446056	.	T	C	15355.43	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
23415	chrY	13446060	.	G	A	3539.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23416	chrY	13446079	.	A	G	28853.72	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
23417	chrY	13446092	.	A	T	1043.18	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
23418	chrY	13446099	.	A	T	1178.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23419	chrY	13446112	.	G	A	70787.55	PASS	AC=43;AF=0.614;AN=70;BaseQRankSum=
23420	chrY	13446117	.	G	A	1486.28	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
23421	chrY	13446125	.	G	T	19193.43	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
23422	chrY	13446133	.	T	A,G	20331.13	PASS	AC=7,22;AF=0.100,0.314;AN=70;BaseQRankSum=
23423	chrY	13446147	.	C	T	576.69	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
23424	chrY	13446157	.	A	G	1029.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
23425	chrY	13446188	.	C	T	2985.14	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23426	chrY	13446207	.	C	A	2109.30	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum=
23427	chrY	13446218	.	T	A	5527.83	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
23428	chrY	13446223	.	G	A	3335.35	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23429	chrY	13446228	.	T	A	160.97	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23430	chrY	13446232	.	T	A	74028.43	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
23431	chrY	13446241	.	G	C	162.53	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQRankSum=
23432	chrY	13446248	.	A	T	59781.59	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23433	chrY	13446254	.	C	T	67033.88	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
23434	chrY	13446262	.	A	G	17798.35	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
23435	chrY	13446271	.	A	G	464.68	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
23436	chrY	13446279	.	T	C	1463.02	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQRankSum=
23437	chrY	13446281	.	A	T	37836.37	PASS	AC=21;AF=0.362;AN=58;BaseQRankSum=
23438	chrY	13446299	.	T	C	6899.61	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
23439	chrY	13446304	.	G	A	2000.94	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
23440	chrY	13446314	.	T	A	911.50	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
23441	chrY	13446320	.	A	G	35.64	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
23442	chrY	13446323	.	G	T	514.67	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQRankSum=
23443	chrY	13446325	.	G	A	1121.79	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
23444	chrY	13446327	.	T	A	4713.80	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
23445	chrY	13446330	.	G	T	30007.38	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
23446	chrY	13446344	.	G	C	2857.79	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
23447	chrY	13446353	.	G	A	18251.87	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
23448	chrY	13446362	.	C	T	15932.32	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
23449	chrY	13446371	.	T	G	196.76	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
23450	chrY	13446376	.	A	G	21952.48	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
23451	chrY	13446380	.	G	A	16032.78	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23452	chrY	13446389	.	C	T	45766.92	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
23453	chrY	13446390	.	A	G	50056.54	PASS	AC=26;AF=0.565;AN=46;BaseQRankSum=
23454	chrY	13446392	.	T	G	46335.45	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23455	chrY	13446403	.	C	T	50258.78	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23456	chrY	13446404	.	A	G	50422.08	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
23457	chrY	13446412	.	T	A	51959.07	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
23458	chrY	13446415	.	C	A	993.88	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQRankSum=
23459	chrY	13446418	.	C	T	4281.78	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
23460	chrY	13446419	.	C	A	945.98	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQRankSum=
23461	chrY	13446440	.	C	A	5972.86	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
23462	chrY	13446441	.	C	G	80.62	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
23463	chrY	13446452	.	G	T	201.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
23464	chrY	13446455	.	G	A	8313.53	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
23465	chrY	13446484	.	T	C	1004.90	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=
23466	chrY	13446505	.	G	A	996.54	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
23467	chrY	13446608	.	C	T	717.26	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
23468	chrY	13446609	.	T	C	721.10	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQRankSum=
23469	chrY	13446614	.	T	C	336.47	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
23470	chrY	13446734	.	G	C	134.72	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
23471	chrY	13446747	.	T	A	141.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
23472	chrY	13446749	.	T	C	135.45	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
23473	chrY	13446757	.	G	A	742.93	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
23474	chrY	13446775	.	C	G	21247.08	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum=
23475	chrY	13446778	.	T	G	21500.22	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
23476	chrY	13446796	.	G	T	21568.09	PASS	AC=16;AF=0.320;AN=50;BaseQRankSum=
23477	chrY	13446801	.	C	T,*	11026.45	PASS	AC=14,2;AF=0.269,0.038;AN=60;BaseQRankSum=
23478	chrY	13446824	.	T	G,*	7620.36	PASS	AC=4,12;AF=0.067,0.200;AN=60;BaseQRankSum=
23479	chrY	13446829	.	T	G,*	6809.39	PASS	AC=9,5;AF=0.145,0.081;AN=62;BaseQRankSum=
23480	chrY	13446834	.	T	G,*	3728.66	PASS	AC=4,4;AF=0.061,0.061;AN=66;BaseQRankSum=
23481	chrY	13446883	.	T	C	37365.46	PASS	AC=18;AF=0.409;AN=44;BaseQRankSum=
23482	chrY	13446901	.	T	C	40701.71	PASS	AC=19;AF=0.452;AN=42;BaseQRankSum=
23483	chrY	13446936	.	C	T	520.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23484	chrY	13446967	.	A	T	54000.85	PASS	AC=24;AF=0.462;AN=52;BaseQRankSum=

23485	chrY	13446988	.	T	A	16730.52	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
23486	chrY	13446998	.	C	A	9526.21	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23487	chrY	13447004	.	T	C	48425.80	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
23488	chrY	13447024	.	C	T	37478.80	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
23489	chrY	13447040	.	G	A	10830.09	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
23490	chrY	13447042	.	A	C	29637.85	PASS	AC=24;AF=0.462;AN=52;BaseQRankSum=
23491	chrY	13447046	.	C	A	515.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23492	chrY	13447063	.	G	A	1399.29	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23493	chrY	13447101	.	A	C	3752.38	PASS	AC=14;AF=0.333;AN=42;BaseQRankSum=
23494	chrY	13447106	.	C	G,*	466.75	PASS	AC=2,1;AF=0.030,0.015;AN=66;BaseQRankSum=
23495	chrY	13447111	.	C	A,*	5577.54	PASS	AC=1,36;AF=0.015,0.545;AN=66;BaseQRankSum=
23496	chrY	13447139	.	T	C,*	1922.41	PASS	AC=2,7;AF=0.029,0.103;AN=68;BaseQRankSum=
23497	chrY	13447152	.	C	T	2599.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23498	chrY	13447164	.	T	C	4800.50	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
23499	chrY	13447168	.	T	A	50.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23500	chrY	13447181	.	G	C	4892.23	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
23501	chrY	13447223	.	G	A	1482.05	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
23502	chrY	13447226	.	A	C	83.16	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
23503	chrY	13447257	.	A	C	818.78	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
23504	chrY	13447311	.	G	A	2848.55	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
23505	chrY	13447350	.	T	A	477.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23506	chrY	13447379	.	T	C	494.15	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
23507	chrY	13447394	.	T	A	668.09	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
23508	chrY	13447406	.	G	A	658.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23509	chrY	13447422	.	G	A	551.73	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
23510	chrY	13447457	.	C	A	43.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23511	chrY	13447460	.	T	A	1112.59	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23512	chrY	13447466	.	C	A,G	547.45	PASS	AC=5,1;AF=0.076,0.015;AN=66;BaseQRankSum=
23513	chrY	13447473	.	C	T	13722.89	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
23514	chrY	13447478	.	A	C,T	20418.16	PASS	AC=24,1;AF=0.632,0.026;AN=66;BaseQRankSum=
23515	chrY	13447482	.	T	A	57.87	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
23516	chrY	13447486	.	T	C	579.95	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQRankSum=
23517	chrY	13447488	.	C	G	499.69	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQRankSum=
23518	chrY	13447491	.	T	C	435.98	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQRankSum=
23519	chrY	13447492	.	G	T,A	10480.55	PASS	AC=7,2;AF=0.206,0.059;AN=66;BaseQRankSum=
23520	chrY	13447503	.	C	T	3165.09	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
23521	chrY	13447513	.	T	C	1774.28	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
23522	chrY	13447555	.	G	A	337.28	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
23523	chrY	13447568	.	C	T	1424.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23524	chrY	13447573	.	G	C	1816.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23525	chrY	13447584	.	T	C,*	6286.31	PASS	AC=6,2;AF=0.333,0.111;AN=18;BaseQRankSum=
23526	chrY	13447586	.	T	C	101.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23527	chrY	13447591	.	T	C	267.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23528	chrY	13447596	.	T	C	178.76	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
23529	chrY	13447598	.	G	C	269.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23530	chrY	13447601	.	A	C	225.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23531	chrY	13447603	.	G	C	192.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23532	chrY	13447620	.	A	G	19514.22	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
23533	chrY	13447625	.	A	T	31.17	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
23534	chrY	13447630	.	G	A	21815.40	PASS	AC=26;AF=0.481;AN=54;BaseQRankSum=
23535	chrY	13447634	.	C	A	21358.78	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
23536	chrY	13447643	.	G	A	111.54	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQRankSum=
23537	chrY	13447645	.	G	A	21342.38	PASS	AC=26;AF=0.448;AN=58;BaseQRankSum=
23538	chrY	13447673	.	C	T	80.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23539	chrY	13447684	.	C	T	6126.63	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
23540	chrY	13447692	.	A	T	617.07	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
23541	chrY	13447698	.	A	C	69884.89	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
23542	chrY	13447722	.	A	T	82896.60	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
23543	chrY	13447723	.	C	A	68.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23544	chrY	13447728	.	C	T	1180.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23545	chrY	13447729	.	C	G	83444.79	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
23546	chrY	13447750	.	A	C	11493.59	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
23547	chrY	13447799	.	A	G	20761.14	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
23548	chrY	13447805	.	C	T	6481.23	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
23549	chrY	13447807	.	G	T	93.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23550	chrY	13447809	.	G	A	34799.15	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
23551	chrY	13447814	.	C	T	53589.94	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
23552	chrY	13447815	.	G	C	67.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23553	chrY	13447852	.	A	G	28984.49	my_snp_filter	AC=18;AF=0.257;AN=66;BaseQRankSum=
23554	chrY	13447870	.	G	T	32400.76	my_snp_filter	AC=18;AF=0.257;AN=66;BaseQRankSum=
23555	chrY	13447879	.	A	T	44890.34	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=
23556	chrY	13447880	.	C	G	5950.49	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
23557	chrY	13447899	.	T	G,*	5018.21	PASS	AC=5,6;AF=0.071,0.086;AN=70;BaseQRankSum=
23558	chrY	13447901	.	A	T,*	20871.18	PASS	AC=14,5;AF=0.226,0.081;AN=66;BaseQRankSum=
23559	chrY	13447905	.	C	G	3073.08	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23560	chrY	13447912	.	A	G	3381.19	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=

23561	chrY	13447915	.	T	C	91701.19	PASS	AC=29;AF=0.453;AN=64;BaseQ
23562	chrY	13447916	.	A	C	5711.98	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
23563	chrY	13447921	.	A	C	3021.09	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23564	chrY	13447926	.	C	A	42578.21	PASS	AC=14;AF=0.259;AN=54;BaseQ
23565	chrY	13447942	.	G	A	5845.98	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
23566	chrY	13447946	.	T	C	105264.08	PASS	AC=31;AF=0.484;AN=64;BaseQ
23567	chrY	13447960	.	G	A	105936.39	PASS	AC=30;AF=0.469;AN=64;BaseQ
23568	chrY	13447968	.	C	T,A	69543.64	PASS	AC=19,7;AF=0.317,0.117;AN=
23569	chrY	13447976	.	G	A	10678.43	PASS	AC=16;AF=0.235;AN=68;BaseQ
23570	chrY	13447977	.	A	T	62035.83	PASS	AC=20;AF=0.370;AN=54;BaseQ
23571	chrY	13447990	.	C	G	352.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23572	chrY	13447998	.	C	T	4981.97	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
23573	chrY	13448001	.	C	A	2355.28	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
23574	chrY	13448002	.	T	C	549.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23575	chrY	13448016	.	C	T	2798.57	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23576	chrY	13448027	.	A	T	49449.93	PASS	AC=23;AF=0.383;AN=60;BaseQ
23577	chrY	13448028	.	T	C	49634.93	PASS	AC=23;AF=0.383;AN=60;BaseQ
23578	chrY	13448035	.	C	A,*	7235.50	PASS	AC=16,1;AF=0.229,0.014;AN=70;BaseQ
23579	chrY	13448036	.	C	T,*	6062.20	PASS	AC=17,1;AF=0.243,0.014;AN=70;BaseQ
23580	chrY	13448048	.	C	T	76.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23581	chrY	13448050	.	C	G	90.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23582	chrY	13448060	.	C	G	62.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23583	chrY	13448061	.	G	A	5851.22	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23584	chrY	13448063	.	T	A	1227.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23585	chrY	13448065	.	A	C	63207.43	PASS	AC=27;AF=0.450;AN=60;BaseQ
23586	chrY	13448074	.	G	C	84.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23587	chrY	13448076	.	T	A	90997.09	PASS	AC=32;AF=0.571;AN=56;BaseQ
23588	chrY	13448080	.	C	T	1539.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23589	chrY	13448083	.	T	C	8658.90	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23590	chrY	13448086	.	A	G	25173.33	PASS	AC=16;AF=0.235;AN=68;BaseQ
23591	chrY	13448101	.	A	C	40181.15	PASS	AC=25;AF=0.368;AN=68;BaseQ
23592	chrY	13448113	.	T	C	3686.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
23593	chrY	13448119	.	C	G	60.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23594	chrY	13448124	.	C	T	1591.27	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23595	chrY	13448125	.	C	T	614.26	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23596	chrY	13448131	.	G	A	96677.70	PASS	AC=32;AF=0.516;AN=62;BaseQ
23597	chrY	13448145	.	T	C	18503.91	PASS	AC=10;AF=0.294;AN=34;BaseQ
23598	chrY	13448147	.	T	C	91971.76	PASS	AC=32;AF=0.516;AN=62;BaseQ
23599	chrY	13448162	.	T	C	20878.55	PASS	AC=10;AF=0.238;AN=42;BaseQ
23600	chrY	13448165	.	C	T	618.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23601	chrY	13448167	.	G	C	83011.50	PASS	AC=31;AF=0.500;AN=62;BaseQ
23602	chrY	13448183	.	T	A	17210.37	PASS	AC=12;AF=0.194;AN=62;BaseQ
23603	chrY	13448220	.	T	C	334.17	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
23604	chrY	13448227	.	C	T	34735	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
23605	chrY	13448238	.	C	T,*	4938.29	PASS	AC=6,1;AF=0.176,0.029;AN=34;BaseQ
23606	chrY	13448251	.	A	T	3653.40	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
23607	chrY	13448279	.	C	G	1337.58	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
23608	chrY	13448284	.	C	T	749.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
23609	chrY	13448294	.	G	C,T	8049.67	PASS	AC=7,3;AF=0.140,0.060;AN=50;BaseQ
23610	chrY	13448297	.	T	C	9490.19	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
23611	chrY	13448298	.	T	C	81.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23612	chrY	13448301	.	A	G	4647.77	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23613	chrY	13448304	.	C	T	7072.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23614	chrY	13448307	.	C	G	1846.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23615	chrY	13448312	.	C	T	2012.24	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23616	chrY	13448315	.	C	T,A	4631.09	PASS	AC=14,4;AF=0.200,0.057;AN=70;BaseQ
23617	chrY	13448319	.	C	G	4027.38	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
23618	chrY	13448341	.	A	T	3486.99	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
23619	chrY	13448351	.	A	G	8276.11	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
23620	chrY	13448354	.	C	T	53929.01	PASS	AC=31;AF=0.443;AN=70;BaseQ
23621	chrY	13448357	.	C	T	117.88	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
23622	chrY	13448358	.	C	T	20683.05	PASS	AC=11;AF=0.289;AN=38;BaseQ
23623	chrY	13448372	.	C	T	277.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23624	chrY	13448375	.	C	T	7199.92	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23625	chrY	13448377	.	T	C	11527.93	PASS	AC=22;AF=0.314;AN=70;BaseQ
23626	chrY	13448386	.	C	A	18829.65	PASS	AC=9;AF=0.173;AN=52;BaseQ
23627	chrY	13448388	.	G	A	7968.03	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
23628	chrY	13448400	.	G	T	10519.11	PASS	AC=8;AF=0.154;AN=52;BaseQ
23629	chrY	13448404	.	C	T	49806.45	PASS	AC=30;AF=0.484;AN=62;BaseQ
23630	chrY	13448405	.	G	A	10654.16	PASS	AC=13;AF=0.295;AN=44;BaseQ
23631	chrY	13448410	.	C	A	13256.67	PASS	AC=24;AF=0.343;AN=70;BaseQ
23632	chrY	13448442	.	T	C	1594.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23633	chrY	13448457	.	T	A	1804.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23634	chrY	13448460	.	A	G	2085.85	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
23635	chrY	13448464	.	C	T	720.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23636	chrY	13448468	.	C	G	4732.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

23637	chrY	13448469	.	C	T	4621.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23638	chrY	13448470	.	A	G	4348.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23639	chrY	13448474	.	C	A	289.96	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
23640	chrY	13448475	.	A	T	16344.39	PASS	AC=17;AF=0.266;AN=64;Base
23641	chrY	13448476	.	G	T	7899.41	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
23642	chrY	13448478	.	T	C	2474.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23643	chrY	13448486	.	C	T	2537.41	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23644	chrY	13448488	.	T	C	3764.85	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23645	chrY	13448490	.	A	T	1760.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23646	chrY	13448491	.	C	A	2207.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23647	chrY	13448496	.	C	T	1267.49	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
23648	chrY	13448504	.	T	C	2358.12	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
23649	chrY	13448514	.	T	C	113841.52	PASS	AC=30;AF=0.517;AN=58;Base
23650	chrY	13448519	.	C	T	3895.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
23651	chrY	13448520	.	A	G	1650.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23652	chrY	13448521	.	T	A	2855.43	my_snp_filter	AC=11;AF=0.157;AN=70;Base
23653	chrY	13448527	.	T	G	12899.36	PASS	AC=15;AF=0.214;AN=70;Base
23654	chrY	13448564	.	A	C	63565.47	PASS	AC=18;AF=0.500;AN=36;Base
23655	chrY	13448613	.	T	C,G	17128.40	PASS	AC=9,5;AF=0.409,0.227;AN=
23656	chrY	13448616	.	C	T	19327.50	PASS	AC=11;AF=0.324;AN=34;Base
23657	chrY	13448620	.	A	G	4529.65	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
23658	chrY	13448627	.	T	A	15092.64	PASS	AC=8;AF=0.167;AN=48;BaseQ
23659	chrY	13448706	.	C	T	222.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23660	chrY	13448738	.	C	T,*	647.46	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
23661	chrY	13448739	.	C	G,*	1038.89	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
23662	chrY	13448746	.	C	T,*	971.64	PASS	AC=3,2;AF=0.044,0.029;AN=68;BaseQ
23663	chrY	13448756	.	C	G,*	1808.26	PASS	AC=2,3;AF=0.037,0.056;AN=54;BaseQ
23664	chrY	13448760	.	T	A,*	700.56	PASS	AC=2,1;AF=0.200,0.100;AN=10;BaseQ
23665	chrY	13448813	.	C	G,*	2093.44	PASS	AC=1,2;AF=0.017,0.033;AN=60;BaseQ
23666	chrY	13448853	.	A	C,*	15580.42	PASS	AC=14,6;AF=0.350,0.150;AN
23667	chrY	13448866	.	G	C,*	17831.51	PASS	AC=16,4;AF=0.421,0.105;AN
23668	chrY	13448871	.	C	G	192.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23669	chrY	13448873	.	T	C	1871.33	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
23670	chrY	13448874	.	C	A	3901.78	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
23671	chrY	13448876	.	T	C	600.83	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
23672	chrY	13448901	.	C	A	178.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23673	chrY	13448906	.	C	T	216.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23674	chrY	13448924	.	C	T	5415.25	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
23675	chrY	13448943	.	G	C	62920.75	PASS	AC=21;AF=0.477;AN=44;Base
23676	chrY	13448944	.	C	G	3261.97	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
23677	chrY	13448948	.	A	C	141508.45	PASS	AC=33;AF=0.589;AN=56;Base
23678	chrY	13448952	.	T	A	11823.82	PASS	AC=9;AF=0.129;AN=70;BaseQ
23679	chrY	13448953	.	C	T	7291.38	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
23680	chrY	13448961	.	A	T	7272.67	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23681	chrY	13448968	.	A	G	60132.97	PASS	AC=22;AF=0.500;AN=44;Base
23682	chrY	13448990	.	T	C	79823.41	PASS	AC=18;AF=0.429;AN=42;Base
23683	chrY	13448991	.	G	A	330.49	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
23684	chrY	13448998	.	C	T	87804.96	PASS	AC=21;AF=0.362;AN=58;Base
23685	chrY	13449008	.	G	A	1413.48	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
23686	chrY	13449011	.	C	T	135.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23687	chrY	13449014	.	G	A	2022.65	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
23688	chrY	13449017	.	A	G	2438.68	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
23689	chrY	13449018	.	A	C	82972.93	PASS	AC=29;AF=0.468;AN=62;Base
23690	chrY	13449022	.	C	G	9647.65	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
23691	chrY	13449024	.	T	G	9742.80	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
23692	chrY	13449025	.	T	G	358.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23693	chrY	13449027	.	T	C	45437.45	PASS	AC=21;AF=0.328;AN=64;Base
23694	chrY	13449040	.	C	T,*	31179.36	PASS	AC=12,12;AF=0.200,0.200;A
23695	chrY	13449049	.	A	G	28813.68	PASS	AC=20;AF=0.286;AN=70;Base
23696	chrY	13449059	.	G	A,C	121250.65	PASS	AC=37,2;AF=0.529,0.029;AN
23697	chrY	13449065	.	C	G,*	936.74	my_snp_filter	AC=5,2;AF=0.078,0.031;AN=
23698	chrY	13449069	.	A	T,*	45735.69	PASS	AC=1,21;AF=0.016,0.339;AN
23699	chrY	13449070	.	C	T,*	25109.31	PASS	AC=13,8;AF=0.203,0.125;AN
23700	chrY	13449071	.	T	C,*	16512.62	PASS	AC=11,6;AF=0.157,0.086;AN
23701	chrY	13449072	.	T	C	70089.72	PASS	AC=35;AF=0.500;AN=70;Base
23702	chrY	13449080	.	C	A	1032.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23703	chrY	13449083	.	C	A,*	29927.65	PASS	AC=4,17;AF=0.057,0.243;AN
23704	chrY	13449085	.	C	T,*	22889.60	PASS	AC=14,10;AF=0.200,0.143;A
23705	chrY	13449094	.	A	C,*	14929.51	PASS	AC=18,7;AF=0.257,0.100;AN
23706	chrY	13449102	.	C	G,*	3653.35	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
23707	chrY	13449109	.	A	T	2992.20	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
23708	chrY	13449120	.	T	A	980	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23709	chrY	13449122	.	C	T	36594.68	PASS	AC=20;AF=0.286;AN=70;Base
23710	chrY	13449127	.	C	G	2346.84	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23711	chrY	13449130	.	C	A	2304.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23712	chrY	13449132	.	C	T	101.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

23713	chrY	13449134	.	A	T	72.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23714	chrY	13449139	.	A	G	2247.81	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23715	chrY	13449140	.	C	G	2292.30	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23716	chrY	13449144	.	A	G	10555.91	PASS	AC=20;AF=0.286;AN=70;BaseQ
23717	chrY	13449157	.	A	C	76.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23718	chrY	13449164	.	G	T,A	153262.50	PASS	AC=27,9;AF=0.397,0.132;AN
23719	chrY	13449169	.	A	C	249.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23720	chrY	13449182	.	C	G	13709.36	PASS	AC=13;AF=0.186;AN=70;BaseQ
23721	chrY	13449186	.	T	C	9351.07	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
23722	chrY	13449189	.	G	A	206946.31	PASS	AC=30;AF=0.484;AN=62;BaseQ
23723	chrY	13449192	.	A	C	1755.59	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
23724	chrY	13449198	.	A	C	162274.45	PASS	AC=30;AF=0.484;AN=62;BaseQ
23725	chrY	13449199	.	A	C,*	6726.14	PASS	AC=4,2;AF=0.063,0.031;AN=64;BaseQ
23726	chrY	13449200	.	A	C,G	255103.95	PASS	AC=35,10;AF=0.515,0.147;A
23727	chrY	13449205	.	T	C	24662.10	PASS	AC=18;AF=0.257;AN=70;BaseQ
23728	chrY	13449207	.	C	G	464.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23729	chrY	13449209	.	A	G	7938.92	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
23730	chrY	13449219	.	T	A	10341.81	PASS	AC=10;AF=0.143;AN=70;BaseQ
23731	chrY	13449223	.	T	G	1842.12	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23732	chrY	13449227	.	G	A	12858.59	PASS	AC=11;AF=0.157;AN=70;BaseQ
23733	chrY	13449232	.	G	A	1469.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23734	chrY	13449233	.	A	G	1454.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23735	chrY	13449241	.	C	T,G	16894.89	PASS	AC=6,9;AF=0.088,0.132;AN=
23736	chrY	13449242	.	G	T	378939.38	PASS	AC=29;AF=0.500;AN=58;BaseQ
23737	chrY	13449249	.	C	G	45155.32	PASS	AC=26;AF=0.371;AN=70;BaseQ
23738	chrY	13449271	.	A	C	1484.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23739	chrY	13449278	.	C	G	321.09	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23740	chrY	13449294	.	C	T	499.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23741	chrY	13449307	.	T	C	159.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23742	chrY	13449314	.	G	C,T,*	119028.27	PASS	AC=18,1,2;AF=0.429,0.024,
23743	chrY	13449316	.	A	C	1467.49	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
23744	chrY	13449318	.	T	A	1354.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23745	chrY	13449321	.	C	T	479.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23746	chrY	13449323	.	T	A	54096.89	PASS	AC=19;AF=0.271;AN=70;BaseQ
23747	chrY	13449326	.	T	C	153572.27	PASS	AC=21;AF=0.500;AN=42;BaseQ
23748	chrY	13449328	.	T	A	66709.44	PASS	AC=11;AF=0.157;AN=70;BaseQ
23749	chrY	13449336	.	A	C	295	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23750	chrY	13449341	.	A	C	106.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23751	chrY	13449346	.	A	G,C	323.62	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
23752	chrY	13449354	.	C	A	41.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23753	chrY	13449355	.	C	T	1993.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23754	chrY	13449386	.	T	A	47376.68	PASS	AC=20;AF=0.500;AN=40;BaseQ
23755	chrY	13449390	.	C	A	2967.34	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23756	chrY	13449405	.	C	G	452.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23757	chrY	13449409	.	C	T	6984.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23758	chrY	13449414	.	C	T	1276.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23759	chrY	13449417	.	A	T	2520.65	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
23760	chrY	13449429	.	A	G,T	30389.11	PASS	AC=12,18;AF=0.300,0.450;A
23761	chrY	13449431	.	C	T	311.69	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
23762	chrY	13449488	.	T	A	2531.28	my_snp_filter	AC=13;AF=0.260;AN=50;BaseQ
23763	chrY	13449492	.	G	T	189656.64	PASS	AC=44;AF=0.880;AN=50;BaseQ
23764	chrY	13449497	.	C	T	121.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
23765	chrY	13449520	.	T	G	3006.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23766	chrY	13449528	.	A	T	82.40	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23767	chrY	13449551	.	C	T	144066.56	PASS	AC=13;AF=0.203;AN=64;BaseQ
23768	chrY	13449556	.	C	G	10411.21	PASS	AC=7;AF=0.106;AN=66;BaseQ
23769	chrY	13449559	.	C	T	349.31	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
23770	chrY	13449562	.	C	T	10019.44	PASS	AC=6;AF=0.088;AN=68;BaseQ
23771	chrY	13449567	.	C	G	9482.75	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
23772	chrY	13449574	.	C	T	27120.49	PASS	AC=11;AF=0.393;AN=28;BaseQ
23773	chrY	13449579	.	C	T	320.01	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
23774	chrY	13449586	.	C	G	61665.05	PASS	AC=11;AF=0.275;AN=40;BaseQ
23775	chrY	13449590	.	T	C	71061.16	PASS	AC=9;AF=0.225;AN=40;BaseQ
23776	chrY	13449592	.	A	G	104.54	PASS	AC=2;AF=0.045;AN=44;DP=17810;FS=0
23777	chrY	13449598	.	T	C	62435.80	PASS	AC=11;AF=0.177;AN=62;BaseQ
23778	chrY	13449605	.	A	C	171698.36	PASS	AC=12;AF=0.545;AN=22;BaseQ
23779	chrY	13449622	.	T	A	61245.66	PASS	AC=9;AF=0.129;AN=70;BaseQ
23780	chrY	13449630	.	A	G,T	184849.97	PASS	AC=22,3;AF=0.786,0.107;AN
23781	chrY	13449638	.	T	C	699.36	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
23782	chrY	13449642	.	T	A	157073.67	PASS	AC=12;AF=0.500;AN=24;BaseQ
23783	chrY	13449643	.	C	A	9979.22	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
23784	chrY	13449649	.	C	A	83038.42	PASS	AC=10;AF=0.147;AN=68;BaseQ
23785	chrY	13449651	.	C	T	9790.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23786	chrY	13449654	.	A	T	6661.43	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23787	chrY	13449663	.	T	G	9276.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23788	chrY	13449666	.	A	T	141.09	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ

23789	chrY	13449667	.	G	T	217.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23790	chrY	13449676	.	T	A	15140.77	PASS	AC=3;AF=0.043;AN=70;BaseQ
23791	chrY	13449682	.	C	A	14724.25	PASS	AC=3;AF=0.043;AN=70;BaseQ
23792	chrY	13449694	.	T	G	13594.60	PASS	AC=3;AF=0.043;AN=70;BaseQ
23793	chrY	13449715	.	A	T,*	1758.87	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
23794	chrY	13449748	.	C	T,*	5267.46	PASS	AC=6,4;AF=0.100,0.067;AN=60;BaseQ
23795	chrY	13449757	.	C	T,*	6383.84	PASS	AC=1,7;AF=0.033,0.233;AN=30;DP=59
23796	chrY	13449761	.	T	C,*	4690.59	PASS	AC=1,7;AF=0.033,0.233;AN=30;DP=74
23797	chrY	13449764	.	T	C,*	41400.98	PASS	AC=13,1;AF=0.406,0.031;AN
23798	chrY	13449773	.	C	A,*	16868.42	PASS	AC=9,2;AF=0.346,0.077;AN=
23799	chrY	13449779	.	C	A	45.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
23800	chrY	13449787	.	C	T	1567.18	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
23801	chrY	13449788	.	C	G	62705.07	PASS	AC=11;AF=0.157;AN=70;BaseQ
23802	chrY	13449801	.	T	A	17331.71	PASS	AC=8;AF=0.114;AN=70;BaseQ
23803	chrY	13449807	.	T	C	95925	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum
23804	chrY	13449808	.	C	A	3381.56	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
23805	chrY	13449811	.	T	C	2162.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
23806	chrY	13449815	.	T	C,G	125128.80	PASS	AC=16,2;AF=0.667,0.083;AN
23807	chrY	13449829	.	G	T	23614.85	PASS	AC=8;AF=0.114;AN=70;BaseQ
23808	chrY	13449837	.	T	A	101691.65	PASS	AC=11;AF=0.423;AN=26;BaseQ
23809	chrY	13449856	.	A	C	205905.27	PASS	AC=34;AF=0.630;AN=54;BaseQ
23810	chrY	13449894	.	T	C	79900	PASS	AC=14;AF=0.318;AN=44;BaseQRankSum
23811	chrY	13449905	.	C	T	6253.19	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
23812	chrY	13449906	.	A	C	15847.92	PASS	AC=11;AF=0.157;AN=70;BaseQ
23813	chrY	13449913	.	T	G	156.63	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
23814	chrY	13449915	.	C	T	6210.26	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum
23815	chrY	13449916	.	A	G	35081.09	PASS	AC=13;AF=0.232;AN=56;BaseQ
23816	chrY	13449918	.	C	G	16406.28	PASS	AC=12;AF=0.207;AN=58;BaseQ
23817	chrY	13449919	.	C	A	30016.69	PASS	AC=12;AF=0.207;AN=58;BaseQ
23818	chrY	13449920	.	C	G	29749.69	PASS	AC=12;AF=0.207;AN=58;BaseQ
23819	chrY	13449929	.	C	A	431.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
23820	chrY	13449947	.	C	T	18781.71	PASS	AC=9;AF=0.188;AN=48;BaseQ
23821	chrY	13449957	.	C	T	7077.94	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
23822	chrY	13450014	.	C	T,*	960.74	my_snp_filter	AC=8,2;AF=0.138,0.034;AN=
23823	chrY	13450015	.	G	A,*	20362.44	PASS	AC=11,1;AF=0.196,0.018;AN
23824	chrY	13450030	.	C	A	4952.75	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum
23825	chrY	13450042	.	C	A	36061.20	PASS	AC=15;AF=0.214;AN=70;BaseQ
23826	chrY	13450043	.	C	T	14631.85	PASS	AC=8;AF=0.114;AN=70;BaseQ
23827	chrY	13450056	.	C	A	11317.77	PASS	AC=11;AF=0.157;AN=70;BaseQ
23828	chrY	13450067	.	C	A	930.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
23829	chrY	13450069	.	T	C	117442.37	PASS	AC=30;AF=0.536;AN=56;BaseQ
23830	chrY	13450074	.	T	C,*	818.37	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
23831	chrY	13450077	.	T	C,*	751.41	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
23832	chrY	13450079	.	T	C,*	652.01	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ
23833	chrY	13450081	.	C	T	20899.76	PASS	AC=12;AF=0.182;AN=66;BaseQ
23834	chrY	13450084	.	C	T,A	90732.46	PASS	AC=27,1;AF=0.540,0.020;AN
23835	chrY	13450089	.	C	A	118.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
23836	chrY	13450090	.	T	C	319.63	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23837	chrY	13450096	.	C	G	36887.55	PASS	AC=22;AF=0.314;AN=70;BaseQ
23838	chrY	13450098	.	A	T	343.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
23839	chrY	13450099	.	C	T	172.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23840	chrY	13450102	.	C	T,A	2263.02	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
23841	chrY	13450107	.	C	T,*	29498.76	PASS	AC=3,20;AF=0.044,0.294;AN
23842	chrY	13450112	.	C	T,*	28694.69	PASS	AC=3,18;AF=0.044,0.265;AN
23843	chrY	13450115	.	C	G,*	27391.54	PASS	AC=1,21;AF=0.022,0.457;AN
23844	chrY	13450120	.	C	G,T,*	26339.26	PASS	AC=11,3,10;AF=0.239,0.065
23845	chrY	13450125	.	C	T,*	20948.67	PASS	AC=8,15;AF=0.174,0.326;AN
23846	chrY	13450135	.	T	G,*	5812.36	PASS	AC=1,5;AF=0.015,0.074;AN=68;BaseQ
23847	chrY	13450141	.	C	T,*	11459.89	PASS	AC=3,5;AF=0.044,0.074;AN=
23848	chrY	13450144	.	T	C,*	4631.01	PASS	AC=3,2;AF=0.044,0.029;AN=68;BaseQ
23849	chrY	13450146	.	C	T,*	14669.97	PASS	AC=10,2;AF=0.147,0.029;AN
23850	chrY	13450151	.	C	T	38316.07	PASS	AC=22;AF=0.324;AN=68;BaseQ
23851	chrY	13450166	.	C	A	9773.40	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
23852	chrY	13450169	.	T	C	533.14	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23853	chrY	13450171	.	C	T	71731.74	PASS	AC=25;AF=0.481;AN=52;BaseQ
23854	chrY	13450181	.	G	C	71480.04	PASS	AC=26;AF=0.565;AN=46;BaseQ
23855	chrY	13450183	.	A	G,*	4435.59	PASS	AC=13,1;AF=0.191,0.015;AN=68;BaseQ
23856	chrY	13450197	.	T	A	8327.58	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
23857	chrY	13450200	.	C	T	15788.65	PASS	AC=10;AF=0.161;AN=62;BaseQ
23858	chrY	13450215	.	C	G	18035.08	PASS	AC=9;AF=0.129;AN=70;BaseQ
23859	chrY	13450222	.	C	A	120.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
23860	chrY	13450238	.	T	A	903.41	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
23861	chrY	13450241	.	C	T	40.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
23862	chrY	13450250	.	A	G	67.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
23863	chrY	13450252	.	C	A	1866.61	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
23864	chrY	13450263	.	A	T	6026.57	PASS	AC=20;AF=0.455;AN=44;BaseQRankSum

23865	chrY	13450268	.	C	A,*	14493.35	PASS	AC=22,1;AF=0.324,0.015;AN=70;BaseQRankSum=
23866	chrY	13450279	.	C	G,*	548.17	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQRankSum=
23867	chrY	13450283	.	G	T,*	1287.88	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQRankSum=
23868	chrY	13450319	.	A	C	25401.68	PASS	AC=23;AF=0.479;AN=48;BaseQRankSum=
23869	chrY	13450347	.	T	C	6178.79	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23870	chrY	13450349	.	C	T	5701.28	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
23871	chrY	13450356	.	T	A	5139.59	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23872	chrY	13450367	.	C	A	5633.09	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
23873	chrY	13450384	.	C	T	5301.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23874	chrY	13450391	.	C	G	7074.26	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
23875	chrY	13450413	.	C	G	5736.62	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
23876	chrY	13450440	.	A	G,*	6613.66	PASS	AC=12,1;AF=0.171,0.014;AN=70;BaseQRankSum=
23877	chrY	13450443	.	C	G	6933.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
23878	chrY	13450445	.	A	G	62.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23879	chrY	13450450	.	A	T	58.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23880	chrY	13450455	.	A	G	6890.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23881	chrY	13450531	.	C	T	1116.07	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
23882	chrY	13450547	.	C	T	1005.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23883	chrY	13450551	.	T	C	1046.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23884	chrY	13450566	.	T	A	4369.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
23885	chrY	13450571	.	A	C	23514.38	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum=
23886	chrY	13450578	.	G	C	32112.11	PASS	AC=15;AF=0.500;AN=30;BaseQRankSum=
23887	chrY	13450586	.	C	T	32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23888	chrY	13450590	.	G	A	28180.11	PASS	AC=15;AF=0.500;AN=30;BaseQRankSum=
23889	chrY	13450614	.	C	T,*	14774.16	PASS	AC=9,3;AF=0.265,0.088;AN=70;BaseQRankSum=
23890	chrY	13450615	.	A	T	3440.85	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
23891	chrY	13450619	.	C	T	1945.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23892	chrY	13450642	.	T	C	139475.58	PASS	AC=26;AF=0.565;AN=46;BaseQRankSum=
23893	chrY	13450643	.	G	T	30.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
23894	chrY	13450647	.	A	G	120156.12	PASS	AC=24;AF=0.522;AN=46;BaseQRankSum=
23895	chrY	13450654	.	A	G	138.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23896	chrY	13450655	.	C	G	168.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23897	chrY	13450656	.	T	C	244.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23898	chrY	13450661	.	C	G	12330.81	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23899	chrY	13450665	.	C	A	12043.15	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
23900	chrY	13450667	.	G	A	45696.02	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
23901	chrY	13450674	.	G	C	115.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23902	chrY	13450677	.	T	C	196774.45	PASS	AC=41;AF=0.732;AN=56;BaseQRankSum=
23903	chrY	13450685	.	C	G	188.13	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23904	chrY	13450687	.	A	G	232.94	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23905	chrY	13450691	.	C	T	142.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
23906	chrY	13450693	.	A	G	160335.74	PASS	AC=30;AF=0.517;AN=58;BaseQRankSum=
23907	chrY	13450694	.	C	T	662.63	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
23908	chrY	13450703	.	C	G	4479.68	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
23909	chrY	13450708	.	C	T	419.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23910	chrY	13450716	.	C	T,A	38293.42	PASS	AC=25,3;AF=0.403,0.048;AN=70;BaseQRankSum=
23911	chrY	13450717	.	A	T	9205.23	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
23912	chrY	13450721	.	T	A	11975.41	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23913	chrY	13450722	.	A	C	1319.61	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
23914	chrY	13450725	.	C	G	12304.23	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
23915	chrY	13450727	.	G	A	94260.43	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=
23916	chrY	13450733	.	T	C	2220.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
23917	chrY	13450740	.	C	T	1033.10	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
23918	chrY	13450746	.	T	C	158916.64	PASS	AC=37;AF=0.561;AN=66;BaseQRankSum=
23919	chrY	13450751	.	A	G	16487.34	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
23920	chrY	13450763	.	C	G	1997.66	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
23921	chrY	13450765	.	A	G	969.66	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
23922	chrY	13450792	.	G	A,*	44874.71	PASS	AC=2,21;AF=0.029,0.309;AN=70;BaseQRankSum=
23923	chrY	13450800	.	T	C	144451.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23924	chrY	13450811	.	C	T	379.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23925	chrY	13450812	.	A	G	172521.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23926	chrY	13450814	.	T	G	66531.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23927	chrY	13450817	.	G	A	215229.44	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
23928	chrY	13450823	.	C	T	1269.58	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
23929	chrY	13450856	.	C	T	50228.15	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
23930	chrY	13450861	.	A	T	50561.45	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
23931	chrY	13450869	.	C	T	3375.99	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
23932	chrY	13450870	.	C	T	130.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
23933	chrY	13450902	.	A	T	15390.36	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
23934	chrY	13450907	.	A	T	973.62	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
23935	chrY	13450910	.	C	G	111661.56	PASS	AC=32;AF=0.500;AN=64;BaseQRankSum=
23936	chrY	13450911	.	G	A	913.80	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQRankSum=
23937	chrY	13450913	.	T	C	354.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23938	chrY	13450915	.	C	T	22796.37	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
23939	chrY	13450925	.	C	A	51949.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
23940	chrY	13450930	.	C	A	19399.69	PASS	AC=31;AF=0.484;AN=64;BaseQRankSum=

23941	chrY	13450936	.	T	C,*	29292.11	PASS	AC=20,6;AF=0.323,0.097;AN=
23942	chrY	13450947	.	C	T	1175.31	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
23943	chrY	13450948	.	A	G	80913.32	PASS	AC=32;AF=0.500;AN=64;Base
23944	chrY	13450950	.	C	T	12912.29	PASS	AC=28;AF=0.400;AN=70;Base
23945	chrY	13450956	.	C	T	6180.23	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
23946	chrY	13450958	.	A	C	71714.08	PASS	AC=30;AF=0.469;AN=64;Base
23947	chrY	13450969	.	T	G	46000.59	PASS	AC=31;AF=0.443;AN=70;Base
23948	chrY	13450976	.	C	T	1211.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23949	chrY	13450980	.	C	T	112.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23950	chrY	13450986	.	C	T	8358.87	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
23951	chrY	13450991	.	C	T	61131.81	PASS	AC=30;AF=0.429;AN=70;Base
23952	chrY	13450996	.	C	T,*	18790.36	PASS	AC=21,4;AF=0.328,0.063;AN
23953	chrY	13450998	.	T	C	82305.44	PASS	AC=30;AF=0.500;AN=60;Base
23954	chrY	13451003	.	C	T	8403.66	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
23955	chrY	13451005	.	T	C	17101.72	PASS	AC=7;AF=0.159;AN=44;BaseQ
23956	chrY	13451017	.	A	T	121	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23957	chrY	13451025	.	A	C	732.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23958	chrY	13451028	.	T	C	1736.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23959	chrY	13451031	.	C	G	354.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23960	chrY	13451033	.	A	T	33243.90	PASS	AC=15;AF=0.300;AN=50;Base
23961	chrY	13451034	.	T	A	43224.70	PASS	AC=27;AF=0.450;AN=60;Base
23962	chrY	13451036	.	C	A	222.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23963	chrY	13451044	.	T	C	335.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23964	chrY	13451048	.	A	C	35349.17	PASS	AC=19;AF=0.352;AN=54;Base
23965	chrY	13451050	.	C	G	7809.14	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
23966	chrY	13451051	.	C	A	1861.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23967	chrY	13451055	.	C	T	393.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23968	chrY	13451065	.	C	A	30664.37	PASS	AC=19;AF=0.271;AN=70;Base
23969	chrY	13451069	.	C	A	132.09	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
23970	chrY	13451070	.	C	G	34672.66	PASS	AC=19;AF=0.339;AN=56;Base
23971	chrY	13451071	.	A	G	423.91	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
23972	chrY	13451072	.	C	A	392.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23973	chrY	13451074	.	C	G	99889.50	PASS	AC=28;AF=0.519;AN=54;Base
23974	chrY	13451075	.	T	G	100045.46	PASS	AC=28;AF=0.519;AN=54;Base
23975	chrY	13451077	.	T	A	10424.88	PASS	AC=21;AF=0.300;AN=70;Base
23976	chrY	13451082	.	C	T	347.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
23977	chrY	13451088	.	T	C	51821.72	PASS	AC=25;AF=0.463;AN=54;Base
23978	chrY	13451091	.	C	T	537.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
23979	chrY	13451101	.	A	G	82120.43	PASS	AC=28;AF=0.519;AN=54;Base
23980	chrY	13451108	.	G	A	687.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
23981	chrY	13451109	.	G	A	9780.26	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
23982	chrY	13451112	.	T	G	30634.07	PASS	AC=19;AF=0.352;AN=54;Base
23983	chrY	13451119	.	A	G	30387.16	PASS	AC=27;AF=0.386;AN=70;Base
23984	chrY	13451136	.	G	A	38.91	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
23985	chrY	13451167	.	C	A	144.05	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
23986	chrY	13451169	.	A	T	58.38	PASS	AC=2;AF=0.037;AN=54;DP=7147;FS=0.
23987	chrY	13451178	.	C	T	5702.21	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
23988	chrY	13451188	.	C	A	2226.34	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
23989	chrY	13451199	.	T	C	2911.95	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
23990	chrY	13451219	.	T	C	1289.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
23991	chrY	13451229	.	T	C	471.94	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
23992	chrY	13451230	.	G	A	60.25	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
23993	chrY	13451239	.	T	C,A	22164.72	PASS	AC=17,2;AF=0.567,0.067;AN
23994	chrY	13451245	.	A	T	29394.70	PASS	AC=22;AF=0.688;AN=32;Base
23995	chrY	13451247	.	C	T	76.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
23996	chrY	13451249	.	C	T	7255.93	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum
23997	chrY	13451262	.	C	T	353.38	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
23998	chrY	13451296	.	C	A	74.65	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
23999	chrY	13451299	.	C	T	4254.12	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
24000	chrY	13451307	.	C	T	11866.76	PASS	AC=15;AF=0.250;AN=60;Base
24001	chrY	13451308	.	A	G	151169.46	PASS	AC=47;AF=0.783;AN=60;Base
24002	chrY	13451314	.	C	A	185.36	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24003	chrY	13451319	.	A	C	207699.27	PASS	AC=50;AF=0.833;AN=60;Base
24004	chrY	13451343	.	T	A	44668.98	PASS	AC=24;AF=0.343;AN=70;Base
24005	chrY	13451345	.	C	T	1463.26	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
24006	chrY	13451346	.	A	G	143466.71	PASS	AC=32;AF=0.593;AN=54;Base
24007	chrY	13451381	.	A	T	71588.62	PASS	AC=22;AF=0.314;AN=70;Base
24008	chrY	13451395	.	A	G	70439.70	PASS	AC=22;AF=0.324;AN=68;Base
24009	chrY	13451397	.	C	T	88.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24010	chrY	13451414	.	C	T	1682.74	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
24011	chrY	13451415	.	A	T	328.35	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24012	chrY	13451432	.	T	C	636.79	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24013	chrY	13451433	.	C	T	2948.06	my_snp_filter	AC=12;AF=0.171;AN=70;Base
24014	chrY	13451434	.	C	T	92.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24015	chrY	13451437	.	T	G	3557.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24016	chrY	13451445	.	A	G	555.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

24017	chrY	13451449	.	C	A	4642.06	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24018	chrY	13451453	.	G	A	704.56	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24019	chrY	13451455	.	A	C	4732.74	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
24020	chrY	13451479	.	C	T,*	2293.57	my_snp_filter	AC=4,9;AF=0.059,0.132;AN=
24021	chrY	13451483	.	C	A,*	1870.02	my_snp_filter	AC=3,9;AF=0.044,0.132;AN=
24022	chrY	13451489	.	T	C	123573.36	PASS	AC=27;AF=0.500;AN=54;Base
24023	chrY	13451490	.	G	A	132679.62	PASS	AC=27;AF=0.500;AN=54;Base
24024	chrY	13451500	.	A	G	271.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24025	chrY	13451509	.	G	A	915.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24026	chrY	13451510	.	A	T	17842.67	PASS	AC=24;AF=0.343;AN=70;Base
24027	chrY	13451514	.	T	C	172245.10	PASS	AC=31;AF=0.574;AN=54;Base
24028	chrY	13451515	.	A	G	54409.25	PASS	AC=27;AF=0.482;AN=56;Base
24029	chrY	13451526	.	C	T	3500.97	my_snp_filter	AC=12;AF=0.171;AN=70;Base
24030	chrY	13451533	.	C	G	4587.99	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24031	chrY	13451554	.	G	A	4328.21	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
24032	chrY	13451577	.	T	G	1840.18	my_snp_filter	AC=11;AF=0.157;AN=70;Base
24033	chrY	13451579	.	A	C	118819.48	PASS	AC=26;AF=0.520;AN=50;Base
24034	chrY	13451583	.	C	G	27322.51	PASS	AC=16;AF=0.229;AN=70;Base
24035	chrY	13451588	.	A	C	72765.13	PASS	AC=21;AF=0.477;AN=44;Base
24036	chrY	13451591	.	A	T	39620.72	PASS	AC=19;AF=0.328;AN=58;Base
24037	chrY	13451596	.	C	T	21336.97	PASS	AC=14;AF=0.200;AN=70;Base
24038	chrY	13451601	.	C	G	19259.97	PASS	AC=14;AF=0.200;AN=70;Base
24039	chrY	13451605	.	T	A	80689.82	PASS	AC=23;AF=0.500;AN=46;Base
24040	chrY	13451608	.	C	T	15911.98	PASS	AC=18;AF=0.257;AN=70;Base
24041	chrY	13451614	.	A	C	73915.95	PASS	AC=23;AF=0.500;AN=46;Base
24042	chrY	13451620	.	A	C	2016.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24043	chrY	13451623	.	A	C	66033.42	PASS	AC=23;AF=0.500;AN=46;Base
24044	chrY	13451635	.	A	T	10217.67	PASS	AC=18;AF=0.273;AN=66;Base
24045	chrY	13451637	.	T	G	15555.78	PASS	AC=18;AF=0.281;AN=64;Base
24046	chrY	13451654	.	C	G	12857.10	PASS	AC=10;AF=0.143;AN=70;Base
24047	chrY	13451679	.	T	G,A	36757.38	PASS	AC=27,9;AF=0.450,0.150;AN
24048	chrY	13451683	.	T	C	13344.38	PASS	AC=11;AF=0.275;AN=40;Base
24049	chrY	13451698	.	A	C	14473.24	PASS	AC=10;AF=0.238;AN=42;Base
24050	chrY	13451704	.	C	T	7759.08	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
24051	chrY	13451714	.	C	T	12188.16	PASS	AC=22;AF=0.324;AN=68;Base
24052	chrY	13451726	.	G	T,C,*	21371.39	PASS	AC=11,16,2;AF=0.196,0.286
24053	chrY	13451731	.	T	C,*	18778.98	PASS	AC=17,5;AF=0.315,0.093;AN
24054	chrY	13451741	.	C	T	485.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24055	chrY	13451743	.	C	G	11611.93	PASS	AC=16;AF=0.242;AN=66;Base
24056	chrY	13451745	.	A	G	17163.98	PASS	AC=9;AF=0.167;AN=54;BaseQ
24057	chrY	13451746	.	C	A,T	29024.99	PASS	AC=13,9;AF=0.241,0.167;AN
24058	chrY	13451756	.	C	T	64624	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
24059	chrY	13451760	.	G	A	19966.87	PASS	AC=9;AF=0.196;AN=46;BaseQ
24060	chrY	13451788	.	G	C,*	19773.67	PASS	AC=9,1;AF=0.180,0.020;AN=
24061	chrY	13451794	.	G	T,*	18317.67	PASS	AC=9,1;AF=0.180,0.020;AN=
24062	chrY	13451832	.	C	A	84801.50	PASS	AC=31;AF=0.500;AN=62;Base
24063	chrY	13451839	.	T	C	678.45	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
24064	chrY	13451841	.	T	G	58.69	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
24065	chrY	13451843	.	T	G	80352.06	PASS	AC=31;AF=0.484;AN=64;Base
24066	chrY	13451844	.	A	G	630.21	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
24067	chrY	13451849	.	G	A	9253.56	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
24068	chrY	13451875	.	G	T	41403.24	PASS	AC=31;AF=0.484;AN=64;Base
24069	chrY	13451903	.	A	T	504.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24070	chrY	13451904	.	C	A	205.09	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24071	chrY	13451908	.	A	C	60978.26	PASS	AC=31;AF=0.470;AN=66;Base
24072	chrY	13451909	.	A	T	60274.26	PASS	AC=31;AF=0.470;AN=66;Base
24073	chrY	13451910	.	A	T	59725.26	PASS	AC=31;AF=0.470;AN=66;Base
24074	chrY	13451912	.	C	G	83.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24075	chrY	13451930	.	C	G	78.37	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24076	chrY	13451933	.	C	A	80.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24077	chrY	13451934	.	C	A	82.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24078	chrY	13451959	.	G	A	8740.45	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
24079	chrY	13451981	.	A	T,*	11752.42	PASS	AC=26,7;AF=0.382,0.103;AN
24080	chrY	13452000	.	A	C,*	11788.01	PASS	AC=24,8;AF=0.353,0.118;AN
24081	chrY	13452010	.	A	G	6701.37	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
24082	chrY	13452020	.	C	T	7252.54	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
24083	chrY	13452048	.	T	C	20755.49	PASS	AC=32;AF=0.485;AN=66;Base
24084	chrY	13452051	.	G	T	20737.76	PASS	AC=32;AF=0.485;AN=66;Base
24085	chrY	13452066	.	T	C	142.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24086	chrY	13452080	.	T	C	173.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24087	chrY	13452085	.	T	A	128.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24088	chrY	13452125	.	T	C	1286.01	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
24089	chrY	13452149	.	C	A	1326.88	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
24090	chrY	13452178	.	A	C	9027.93	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
24091	chrY	13452179	.	A	C	633.53	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
24092	chrY	13452187	.	C	A	2199.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=

24093	chrY	13452190	.	T	C	9302.30	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
24094	chrY	13452204	.	G	A	8911.83	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
24095	chrY	13452232	.	C	G	733.22	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24096	chrY	13452248	.	C	G	9426.01	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
24097	chrY	13452250	.	C	A	511.43	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
24098	chrY	13452251	.	T	A	9368.01	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
24099	chrY	13452260	.	G	T	9465.47	PASS	AC=4;AF=0.333;AN=12;BaseQRankSum=
24100	chrY	13452327	.	C	A	7751.20	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
24101	chrY	13452330	.	C	G	15687.24	PASS	AC=16;AF=0.500;AN=32;BaseQRankSum=
24102	chrY	13452343	.	A	G,*	15629.79	PASS	AC=3,19;AF=0.045,0.288;AN=
24103	chrY	13452363	.	A	G	481.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24104	chrY	13452369	.	T	G	300.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24105	chrY	13452394	.	T	G	8993.87	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
24106	chrY	13452401	.	A	C	7702.17	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
24107	chrY	13452408	.	T	A	6896.88	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
24108	chrY	13452410	.	G	T	3931.12	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
24109	chrY	13452411	.	C	A	254.50	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
24110	chrY	13452432	.	G	A	144.36	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
24111	chrY	13452433	.	A	T	3014.34	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
24112	chrY	13452444	.	A	C	1959.64	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
24113	chrY	13452448	.	A	T	1106.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24114	chrY	13452451	.	C	G	1028.76	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24115	chrY	13452464	.	C	A	160.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24116	chrY	13452497	.	C	A	7713.36	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
24117	chrY	13452507	.	G	C	8980.43	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
24118	chrY	13452509	.	G	T	9085.21	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
24119	chrY	13452516	.	C	A	3928.20	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
24120	chrY	13452544	.	G	A	3371.76	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum=
24121	chrY	13452556	.	C	T	89.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
24122	chrY	13452564	.	A	T	18190.60	PASS	AC=20;AF=0.476;AN=42;BaseQRankSum=
24123	chrY	13452570	.	G	C	19193.06	PASS	AC=21;AF=0.438;AN=48;BaseQRankSum=
24124	chrY	13452571	.	C	T	19123.58	PASS	AC=20;AF=0.417;AN=48;BaseQRankSum=
24125	chrY	13452577	.	A	T	2834.07	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
24126	chrY	13452578	.	C	T	22856.82	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
24127	chrY	13452628	.	G	C	52.29	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQRankSum=
24128	chrY	13452634	.	A	T	54725.86	PASS	AC=22;AF=0.500;AN=44;BaseQRankSum=
24129	chrY	13452640	.	C	G	16931.99	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
24130	chrY	13452643	.	C	T	17132.99	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
24131	chrY	13452660	.	C	T	10339.99	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
24132	chrY	13452664	.	C	T	70328.64	PASS	AC=21;AF=0.457;AN=46;BaseQRankSum=
24133	chrY	13452703	.	C	G	14259.29	PASS	AC=16;AF=0.348;AN=46;BaseQRankSum=
24134	chrY	13452704	.	T	G	13904.18	PASS	AC=14;AF=0.318;AN=44;BaseQRankSum=
24135	chrY	13452781	.	C	A	426.85	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
24136	chrY	13452790	.	T	C,A	3485.48	PASS	AC=3,1;AF=0.214,0.071;AN=14;BaseQRankSum=
24137	chrY	13452813	.	C	A	58.73	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQRankSum=
24138	chrY	13452815	.	A	C	788.55	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
24139	chrY	13452818	.	T	C	791.42	PASS	AC=1;AF=0.083;AN=12;BaseQRankSum=
24140	chrY	13452945	.	G	A	51.26	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
24141	chrY	13452953	.	T	A	35.37	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
24142	chrY	13452959	.	A	C	47.46	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
24143	chrY	13453190	.	A	T	140.68	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24144	chrY	13453279	.	A	C	908.40	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
24145	chrY	13453280	.	G	A	896.01	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
24146	chrY	13453405	.	T	A	3622.33	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
24147	chrY	13453406	.	A	T	3692.77	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQRankSum=
24148	chrY	13453543	.	C	G	441.04	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24149	chrY	13453600	.	T	G	480.03	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
24150	chrY	13453688	.	C	T	420.61	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
24151	chrY	13453709	.	T	A	1249.89	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
24152	chrY	13453894	.	A	C	58.36	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
24153	chrY	13453895	.	A	C	79.07	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24154	chrY	13453897	.	C	G	57.60	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
24155	chrY	13454205	.	T	C	283.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24156	chrY	13454426	.	C	G	649.43	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24157	chrY	13454427	.	A	C	650.92	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24158	chrY	13454434	.	C	T	654.15	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24159	chrY	13454438	.	A	T	621.58	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24160	chrY	13454439	.	T	A	624.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24161	chrY	13454443	.	A	T	627.89	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24162	chrY	13454452	.	C	T	638.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24163	chrY	13454563	.	T	A	593.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24164	chrY	13454668	.	T	C	2059.77	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
24165	chrY	13454903	.	A	T	228.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24166	chrY	13455108	.	C	T	89.31	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
24167	chrY	13455110	.	T	A	160.01	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24168	chrY	13455115	.	G	T	81.82	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=

24169	chrY	13455116	.	T	A	120.79	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
24170	chrY	13455130	.	C	T	46.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24171	chrY	13455441	.	C	T	103.71	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24172	chrY	13456008	.	A	C	54.87	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
24173	chrY	13456079	.	T	C	128.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24174	chrY	13456110	.	C	A	153.84	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24175	chrY	13456553	.	T	A	63.34	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
24176	chrY	13456645	.	T	G	511.32	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24177	chrY	13456651	.	C	A	177.11	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24178	chrY	13456654	.	C	A	146.66	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24179	chrY	13456656	.	T	C	870.31	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24180	chrY	13456658	.	G	A	143.71	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24181	chrY	13456668	.	A	T	507.77	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
24182	chrY	13456672	.	A	C	224.96	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
24183	chrY	13456682	.	C	T	136.77	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
24184	chrY	13456688	.	C	A	149.80	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
24185	chrY	13457057	.	C	G	119.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24186	chrY	13457778	.	C	A	122.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24187	chrY	13457782	.	G	A	78.57	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
24188	chrY	13457783	.	A	G	195.65	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
24189	chrY	13457807	.	T	A	85.61	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
24190	chrY	13458417	.	C	A	216.32	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
24191	chrY	13458470	.	C	G	171.23	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24192	chrY	13458475	.	C	A	270.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24193	chrY	13458480	.	A	C	363.32	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
24194	chrY	13458483	.	T	A	157.89	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
24195	chrY	13458485	.	A	C	125.36	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
24196	chrY	13458490	.	T	C	216.09	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
24197	chrY	13458674	.	T	G	32.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24198	chrY	13458675	.	C	G	34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24199	chrY	13458678	.	T	A	49.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24200	chrY	13458682	.	A	G	33.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24201	chrY	13458683	.	C	A	43.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24202	chrY	13458696	.	C	A	38.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24203	chrY	13458723	.	T	C	60.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24204	chrY	13459063	.	T	C	34.72	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
24205	chrY	13459070	.	A	C	192.25	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
24206	chrY	13459165	.	C	A	299.74	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
24207	chrY	13459168	.	A	T	36.84	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
24208	chrY	13459171	.	C	G	96.75	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
24209	chrY	13459231	.	T	C	299.43	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
24210	chrY	13459571	.	A	G	319.14	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
24211	chrY	13459574	.	C	A	238.96	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
24212	chrY	13459575	.	G	C	717.51	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
24213	chrY	13460258	.	T	A	46.26	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24214	chrY	13460261	.	G	A	45.81	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24215	chrY	13460262	.	A	G	45.63	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24216	chrY	13460264	.	C	A	46.82	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24217	chrY	13460272	.	C	G	46.30	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24218	chrY	13460289	.	T	G	71.31	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
24219	chrY	13460325	.	C	A	32.27	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24220	chrY	13460445	.	G	A	165.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24221	chrY	13460447	.	C	T	166.95	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24222	chrY	13460448	.	C	T	266.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24223	chrY	13460449	.	C	T	420.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24224	chrY	13460453	.	A	T	223.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24225	chrY	13460461	.	T	C,A	5880.69	PASS	AC=19,4;AF=0.297,0.063;AN=64;Base
24226	chrY	13460462	.	G	A	679.50	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
24227	chrY	13460465	.	A	T	120.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24228	chrY	13460466	.	G	A	475.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24229	chrY	13460475	.	A	T	34.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24230	chrY	13460482	.	C	G	450.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24231	chrY	13460484	.	A	T	72.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24232	chrY	13460488	.	G	C	412.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24233	chrY	13460501	.	A	T	36.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24234	chrY	13460512	.	G	A	57.23	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24235	chrY	13460515	.	C	T	107.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24236	chrY	13460517	.	C	G	53.07	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24237	chrY	13460520	.	A	T	201.30	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
24238	chrY	13460521	.	T	C	169.85	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
24239	chrY	13460523	.	C	G	671.52	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
24240	chrY	13460524	.	G	T	153.94	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
24241	chrY	13460527	.	G	C	293.40	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
24242	chrY	13460530	.	T	C,A	1100.28	PASS	AC=7,3;AF=0.269,0.115;AN=26;BaseQ
24243	chrY	13460535	.	C	G	208.11	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
24244	chrY	13460539	.	A	T	249.78	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=

24245	chrY	13460540	.	G	A	196.70	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
24246	chrY	13460549	.	C	G	37.84	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24247	chrY	13460553	.	A	G	71.57	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
24248	chrY	13460568	.	G	A	32.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24249	chrY	13460581	.	G	A	133.61	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24250	chrY	13460582	.	C	T	92.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24251	chrY	13460586	.	G	A	203.96	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24252	chrY	13460590	.	G	T,A	246.59	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ
24253	chrY	13460597	.	C	A	33.47	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24254	chrY	13460602	.	C	A	101.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24255	chrY	13460604	.	A	C	47.73	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24256	chrY	13460606	.	C	A	130.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24257	chrY	13460609	.	T	C	166.82	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24258	chrY	13460610	.	A	G	142.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24259	chrY	13460611	.	C	T	41.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24260	chrY	13460622	.	T	G	44.59	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24261	chrY	13460625	.	T	C	221.59	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24262	chrY	13460626	.	T	C	1843.17	PASS	AC=15;AF=0.500;AN=30;BaseQRankSum=
24263	chrY	13460628	.	C	G	1954.09	PASS	AC=14;AF=0.467;AN=30;BaseQRankSum=
24264	chrY	13460630	.	G	A	46.59	my_snp_filter	AC=2;AF=0.029;AN=70;DP=10
24265	chrY	13460631	.	C	T	48.63	my_snp_filter	AC=2;AF=0.029;AN=68;DP=10
24266	chrY	13460632	.	A	T	385.92	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24267	chrY	13460633	.	G	A	217.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24268	chrY	13460636	.	A	T	78.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24269	chrY	13460640	.	G	T	115.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24270	chrY	13460648	.	G	T	439.30	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
24271	chrY	13460649	.	T	C,A	1129.87	PASS	AC=6,1;AF=0.375,0.063;AN=16;BaseQ
24272	chrY	13460659	.	C	G	166.84	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24273	chrY	13460670	.	C	A	464.47	PASS	AC=4;AF=0.059;AN=58;BaseQRankSum=
24274	chrY	13460674	.	A	G	194.73	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24275	chrY	13460799	.	C	A	157.79	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
24276	chrY	13460802	.	A	G	743.12	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
24277	chrY	13460805	.	T	A	9766.63	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
24278	chrY	13460806	.	A	G	49.92	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
24279	chrY	13460811	.	C	T	297.43	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24280	chrY	13460812	.	C	T	478.74	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
24281	chrY	13460814	.	C	T	276.37	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24282	chrY	13460816	.	T	A	329.96	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24283	chrY	13460822	.	G	T,A	1550.77	PASS	AC=5,2;AF=0.076,0.030;AN=66;BaseQ
24284	chrY	13460831	.	G	C	1040.84	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24285	chrY	13460833	.	G	A	12977.22	PASS	AC=8;AF=0.125;AN=64;BaseQ
24286	chrY	13460834	.	C	T,A	680.77	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
24287	chrY	13460837	.	A	G	12950.73	PASS	AC=8;AF=0.125;AN=64;BaseQ
24288	chrY	13460839	.	T	G	39.99	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24289	chrY	13460842	.	T	A	147.53	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
24290	chrY	13460847	.	C	A	8880.40	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
24291	chrY	13460851	.	T	G	11040.14	PASS	AC=8;AF=0.211;AN=38;BaseQ
24292	chrY	13460853	.	C	T	9180.24	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQ
24293	chrY	13460854	.	C	A	9130.33	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
24294	chrY	13460855	.	C	A	9376.46	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
24295	chrY	13460862	.	C	G	827.42	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24296	chrY	13460864	.	G	C	7776.26	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
24297	chrY	13460869	.	T	A	102.45	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24298	chrY	13460873	.	G	C	11152.14	my_snp_filter	AC=9;AF=0.346;AN=
24299	chrY	13460876	.	A	G	8688.71	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
24300	chrY	13460877	.	G	A	7748.18	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
24301	chrY	13460880	.	T	C	813.54	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
24302	chrY	13460881	.	A	T	244.81	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24303	chrY	13460891	.	G	A	68.48	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
24304	chrY	13460895	.	A	T	33.31	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
24305	chrY	13460896	.	T	C	684.58	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
24306	chrY	13460897	.	C	T	3413.07	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
24307	chrY	13460898	.	A	G	38.45	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
24308	chrY	13460903	.	A	T	54.25	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
24309	chrY	13460906	.	G	C	331.87	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
24310	chrY	13460916	.	T	A	2677.53	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
24311	chrY	13460923	.	C	T	383.99	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
24312	chrY	13460929	.	G	A	342.23	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24313	chrY	13460930	.	C	T	1687.24	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24314	chrY	13460931	.	A	T	365.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24315	chrY	13460942	.	T	A	20296.38	PASS	AC=7;AF=0.500;AN=14;BaseQ
24316	chrY	13460944	.	G	A	15789.24	PASS	AC=2;AF=0.037;AN=54;BaseQ
24317	chrY	13460951	.	A	G	7347.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24318	chrY	13460958	.	C	A	60466.26	PASS	AC=5;AF=0.500;AN=10;BaseQ
24319	chrY	13460978	.	C	T	4497.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24320	chrY	13460982	.	G	A	7847.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

24321	chrY	13460987	.	G	C	94.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24322	chrY	13460989	.	C	G	329.95	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
24323	chrY	13461021	.	C	T	136.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24324	chrY	13461022	.	A	G	82.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24325	chrY	13461026	.	G	T	405.02	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
24326	chrY	13461028	.	G	C	60.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24327	chrY	13461037	.	G	A	100.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24328	chrY	13461041	.	G	T	111.75	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24329	chrY	13461042	.	G	T	100.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24330	chrY	13461047	.	G	C	187.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24331	chrY	13461048	.	T	C	84.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24332	chrY	13461052	.	A	C	86.34	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24333	chrY	13461054	.	A	G	386.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24334	chrY	13461055	.	G	A,T	225.07	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
24335	chrY	13461056	.	C	T	99.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24336	chrY	13461058	.	C	A	62.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24337	chrY	13461062	.	G	A	337.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24338	chrY	13461064	.	A	T	99.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24339	chrY	13461065	.	G	A	87.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24340	chrY	13461067	.	C	T	98.33	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
24341	chrY	13461068	.	A	G,C	236.34	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
24342	chrY	13461069	.	G	T	361.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24343	chrY	13461072	.	C	T	340.92	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24344	chrY	13461073	.	C	G	132.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24345	chrY	13461074	.	T	C,A	406.24	my_snp_filter	AC=5,2;AF=0.071,0.029;AN=
24346	chrY	13461076	.	G	C	191.21	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24347	chrY	13461078	.	A	T	332.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24348	chrY	13461081	.	G	A	222.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24349	chrY	13461085	.	T	A	65.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24350	chrY	13461087	.	C	T	218.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24351	chrY	13461088	.	A	G	175.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24352	chrY	13461089	.	T	A	145.15	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24353	chrY	13461090	.	C	G	113.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24354	chrY	13461095	.	G	A	958.83	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
24355	chrY	13461096	.	G	T	130.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24356	chrY	13461097	.	G	T	341.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24357	chrY	13461099	.	G	T	377.11	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24358	chrY	13461101	.	T	C,A	936.88	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
24359	chrY	13461103	.	A	C	153.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24360	chrY	13461104	.	G	T	166.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24361	chrY	13461105	.	T	G	196.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24362	chrY	13461107	.	C	T	839.21	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24363	chrY	13461108	.	A	G	232.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24364	chrY	13461110	.	A	T	33.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24365	chrY	13461111	.	G	T	106.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24366	chrY	13461113	.	T	C	68.96	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24367	chrY	13461114	.	A	T,G	319.71	my_snp_filter	AC=3,1;AF=0.044,0.015;AN=
24368	chrY	13461117	.	T	A	228.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24369	chrY	13461120	.	C	G	304.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24370	chrY	13461122	.	A	T	419.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24371	chrY	13461123	.	T	G	259.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24372	chrY	13461124	.	G	T	157.27	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24373	chrY	13461128	.	C	T	111.85	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
24374	chrY	13461130	.	A	G	1937.96	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
24375	chrY	13461132	.	A	T	219.62	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
24376	chrY	13461133	.	G	A	194.49	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
24377	chrY	13461135	.	T	C	1147.80	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
24378	chrY	13461140	.	C	G	48.70	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
24379	chrY	13461141	.	C	T	254.18	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
24380	chrY	13461144	.	G	T	292.41	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24381	chrY	13461145	.	A	G	172.55	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
24382	chrY	13461146	.	A	C	486.68	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
24383	chrY	13461151	.	T	G	406.67	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
24384	chrY	13461156	.	A	T	57.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24385	chrY	13461183	.	C	T	37.87	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24386	chrY	13461206	.	G	A	317.75	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
24387	chrY	13461240	.	T	G	166.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24388	chrY	13461249	.	T	A	3146.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24389	chrY	13461252	.	G	A	58.84	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24390	chrY	13461253	.	T	C	3157.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24391	chrY	13461266	.	A	T	31997.36	PASS	AC=15;AF=0.375;AN=40;Base
24392	chrY	13461269	.	A	G	52913.66	PASS	AC=10;AF=0.217;AN=46;Base
24393	chrY	13461271	.	G	T	44212.35	PASS	AC=10;AF=0.227;AN=44;Base
24394	chrY	13461272	.	C	G	47.66	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
24395	chrY	13461284	.	A	G	47.78	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24396	chrY	13461286	.	G	C	601.31	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ

24397	chrY	13461292	.	T	C	53.20	PASS	AC=2;AF=0.030;AN=66;DP=10401;FS=0
24398	chrY	13461301	.	G	T	532.74	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
24399	chrY	13461317	.	A	G	313.25	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24400	chrY	13461320	.	T	G	291.92	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
24401	chrY	13461322	.	T	C	176.50	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24402	chrY	13461325	.	C	A	177.04	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24403	chrY	13461327	.	A	G	378.21	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
24404	chrY	13461328	.	G	T	116.59	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
24405	chrY	13461329	.	C	A	1076.75	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
24406	chrY	13461333	.	C	T	1412.68	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
24407	chrY	13461335	.	T	G	1116.74	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
24408	chrY	13461350	.	A	G	271.52	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24409	chrY	13461359	.	A	G	413.18	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24410	chrY	13461360	.	C	T	1064.08	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
24411	chrY	13461363	.	C	A	139.94	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
24412	chrY	13461364	.	T	G	376.18	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
24413	chrY	13461366	.	C	G	234.95	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24414	chrY	13461367	.	T	A	43.39	PASS	AC=1;AF=0.015;AN=66;DP=1698;FS=0.
24415	chrY	13461368	.	C	G	416.61	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
24416	chrY	13461374	.	T	A	46	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24417	chrY	13461375	.	C	A	55.52	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24418	chrY	13461377	.	A	G	87.85	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
24419	chrY	13461552	.	G	C	37.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24420	chrY	13461554	.	G	T	2335.55	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
24421	chrY	13461561	.	C	T	34.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24422	chrY	13461580	.	G	A	34.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24423	chrY	13461584	.	A	T	37.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24424	chrY	13461586	.	A	C	37.74	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24425	chrY	13461596	.	A	C,*	720.59	PASS	AC=4,7;AF=0.065,0.113;AN=62;BaseQ
24426	chrY	13461685	.	G	C	2714.09	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
24427	chrY	13461686	.	T	A	157.95	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24428	chrY	13461690	.	C	A	81.06	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24429	chrY	13461693	.	A	G	884.90	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
24430	chrY	13461694	.	A	T	81.10	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24431	chrY	13461695	.	G	C	332.88	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
24432	chrY	13461700	.	A	G	120.64	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24433	chrY	13461705	.	C	A	264.60	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
24434	chrY	13461709	.	C	A,G	3315.99	my_snp_filter	AC=4,4;AF=0.182,0.182;AN=
24435	chrY	13461711	.	G	A	274.30	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
24436	chrY	13461712	.	A	G	161.95	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24437	chrY	13461716	.	G	A	1625.15	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
24438	chrY	13461719	.	C	T	200.95	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24439	chrY	13461724	.	T	A	4355.16	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
24440	chrY	13461739	.	C	A	454.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24441	chrY	13461742	.	G	C	71.28	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24442	chrY	13461743	.	T	A	206.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24443	chrY	13461746	.	G	T	841.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24444	chrY	13461749	.	G	T	1001.96	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24445	chrY	13461753	.	G	A,C	5648.52	my_snp_filter	AC=7,9;AF=0.167,0.214;AN=
24446	chrY	13461754	.	T	A	940.46	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24447	chrY	13461756	.	G	T	1098.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24448	chrY	13461758	.	C	G	184.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24449	chrY	13461762	.	A	T	2460.21	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
24450	chrY	13461764	.	T	C	251.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24451	chrY	13461771	.	A	T,G	2446.06	PASS	AC=10,6;AF=0.143,0.086;AN=70;Base
24452	chrY	13461773	.	T	A	1616.18	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24453	chrY	13461776	.	G	A	458.62	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24454	chrY	13461781	.	T	G	1537.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24455	chrY	13461782	.	C	G	465.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24456	chrY	13461787	.	C	T	74.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24457	chrY	13461793	.	T	A	35.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24458	chrY	13461796	.	G	C	1193.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24459	chrY	13461797	.	T	C	811.10	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
24460	chrY	13461798	.	C	A	5681.16	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
24461	chrY	13461799	.	C	A	15709.61	PASS	AC=28;AF=0.452;AN=62;BaseQ
24462	chrY	13461800	.	T	G	5450.60	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
24463	chrY	13461801	.	G	T	507.40	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24464	chrY	13461802	.	C	T	322.65	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
24465	chrY	13461803	.	T	G	324.36	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
24466	chrY	13461806	.	C	T	482.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24467	chrY	13461807	.	T	C	5925.69	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
24468	chrY	13461808	.	G	T,C	486.99	PASS	AC=5,3;AF=0.071,0.043;AN=70;BaseQ
24469	chrY	13461812	.	C	G,T	15935.35	PASS	AC=21,5;AF=0.328,0.078;AN=
24470	chrY	13461817	.	C	T,A	1404.24	PASS	AC=8,2;AF=0.114,0.029;AN=70;BaseQ
24471	chrY	13461818	.	G	A	230.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24472	chrY	13461819	.	G	T	500.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=

24473	chrY	13461821	.	G	T	426.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24474	chrY	13461825	.	T	A	153.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24475	chrY	13461826	.	G	T	1157.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
24476	chrY	13461827	.	C	T	9371.59	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
24477	chrY	13461828	.	G	A	186.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24478	chrY	13461829	.	G	T,A	762.94	PASS	AC=2,6;AF=0.030,0.091;AN=66;BaseQ
24479	chrY	13461830	.	G	T	932.27	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
24480	chrY	13461832	.	A	G	286.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
24481	chrY	13461833	.	C	A	39.33	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24482	chrY	13461834	.	C	T	6993.50	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
24483	chrY	13461835	.	C	G	6917.08	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
24484	chrY	13461836	.	A	G	13199.15	PASS	AC=17;AF=0.266;AN=64;BaseQ
24485	chrY	13461840	.	A	T	243.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24486	chrY	13461845	.	C	T	3467.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
24487	chrY	13461848	.	G	C	282.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24488	chrY	13461853	.	G	T	61.10	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24489	chrY	13461855	.	T	A,G	853.11	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
24490	chrY	13461861	.	T	A	11086.17	PASS	AC=26;AF=0.419;AN=62;BaseQ
24491	chrY	13461863	.	T	C	9314.24	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
24492	chrY	13461864	.	G	C,A	1145.65	PASS	AC=11,2;AF=0.172,0.031;AN=64;BaseQ
24493	chrY	13461865	.	G	A	1326.25	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
24494	chrY	13461868	.	T	C	180.28	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
24495	chrY	13461870	.	G	T,A	2263.63	PASS	AC=8,7;AF=0.114,0.100;AN=70;BaseQ
24496	chrY	13461872	.	G	C	409.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24497	chrY	13461875	.	C	T	22111.37	PASS	AC=31;AF=0.500;AN=62;BaseQ
24498	chrY	13461877	.	C	A	2004.32	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
24499	chrY	13461883	.	C	A	472.50	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
24500	chrY	13461884	.	C	A	1111.47	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
24501	chrY	13461892	.	T	G	991.18	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
24502	chrY	13461897	.	A	C	1948.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24503	chrY	13461901	.	C	T	2625.80	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
24504	chrY	13461902	.	G	T	91.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24505	chrY	13461903	.	G	A,C	334.12	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
24506	chrY	13461907	.	C	T	1872.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24507	chrY	13461909	.	C	T	85.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24508	chrY	13461912	.	C	A	883.85	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
24509	chrY	13461918	.	C	A	330.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24510	chrY	13461919	.	C	G	567.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24511	chrY	13461921	.	C	G	276.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
24512	chrY	13461923	.	T	C	90.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24513	chrY	13461924	.	G	A	93.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24514	chrY	13461927	.	G	T	114.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24515	chrY	13461929	.	G	C,T	15504.82	PASS	AC=35,3;AF=0.515,0.044;AN=
24516	chrY	13461935	.	C	A,T	1567.22	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQ
24517	chrY	13461936	.	G	A	118.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24518	chrY	13461937	.	G	T	4862.56	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
24519	chrY	13461938	.	G	A,T	559.64	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
24520	chrY	13461943	.	C	T	96.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24521	chrY	13461946	.	C	T,G	315.44	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
24522	chrY	13461947	.	G	A	2607.98	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
24523	chrY	13461950	.	T	A	13118.19	PASS	AC=33;AF=0.500;AN=66;BaseQ
24524	chrY	13461953	.	T	C	4226.41	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
24525	chrY	13461959	.	C	G	187.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24526	chrY	13461961	.	C	T,*	375.22	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
24527	chrY	13461962	.	C	T	519.27	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24528	chrY	13461963	.	G	A,T	951.78	PASS	AC=3,3;AF=0.044,0.044;AN=68;BaseQ
24529	chrY	13461966	.	G	A	206.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24530	chrY	13461967	.	T	A,C	1634.36	PASS	AC=12,1;AF=0.171,0.014;AN=70;BaseQ
24531	chrY	13461968	.	G	A,T	216.24	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
24532	chrY	13461969	.	G	A	161.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24533	chrY	13461981	.	T	C,*	263.63	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
24534	chrY	13461982	.	G	A	397.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24535	chrY	13461985	.	T	A,G	2679.95	PASS	AC=5,13;AF=0.083,0.217;AN=60;BaseQ
24536	chrY	13461989	.	C	T	791.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24537	chrY	13461990	.	G	T	63.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24538	chrY	13461991	.	C	T	783.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24539	chrY	13461995	.	T	G,C	11359.28	PASS	AC=27,3;AF=0.450,0.050;AN=
24540	chrY	13461998	.	C	T	220.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24541	chrY	13462000	.	C	T,*	705.85	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
24542	chrY	13462005	.	T	G,A,C	10988.53	PASS	AC=24,5,2;AF=0.387,0.081,
24543	chrY	13462007	.	G	T,A	810.07	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
24544	chrY	13462016	.	C	T,G	1065.26	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
24545	chrY	13462017	.	G	C	605.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24546	chrY	13462019	.	G	C,A	422.81	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
24547	chrY	13462021	.	G	T	275.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24548	chrY	13462026	.	A	C	318.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

24549	chrY	13462027	.	C	T	4349.91	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
24550	chrY	13462028	.	G	T	604.18	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24551	chrY	13462029	.	C	G	681.91	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
24552	chrY	13462030	.	C	T	284.05	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24553	chrY	13462033	.	C	G	126.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24554	chrY	13462034	.	G	A	141.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24555	chrY	13462035	.	T	C	670.33	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
24556	chrY	13462036	.	G	C	251.67	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24557	chrY	13462044	.	C	A	654.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24558	chrY	13462046	.	G	C	570.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24559	chrY	13462049	.	C	T	354.59	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24560	chrY	13462050	.	T	A,C	2747.54	PASS	AC=9,12;AF=0.141,0.188;AN=64;Base
24561	chrY	13462053	.	C	T	573.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24562	chrY	13462056	.	C	T	1369.83	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
24563	chrY	13462057	.	A	G,T	6276.17	PASS	AC=30,4;AF=0.469,0.063;AN=64;Base
24564	chrY	13462058	.	G	A	239.47	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24565	chrY	13462059	.	C	A,T	1104.52	PASS	AC=10,1;AF=0.147,0.015;AN=68;Base
24566	chrY	13462060	.	G	A	271.72	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24567	chrY	13462065	.	C	A	996.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24568	chrY	13462066	.	C	A	814.38	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
24569	chrY	13462069	.	A	C	280.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24570	chrY	13462071	.	G	A,*	304.42	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
24571	chrY	13462073	.	A	T,*	146.21	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
24572	chrY	13462074	.	C	T	652.98	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24573	chrY	13462075	.	T	G,A	1725.69	PASS	AC=7,4;AF=0.100,0.057;AN=70;BaseQ
24574	chrY	13462078	.	C	T	41.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24575	chrY	13462084	.	C	A	287.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24576	chrY	13462086	.	C	A	428.96	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
24577	chrY	13462087	.	T	G	7501.56	PASS	AC=32;AF=0.516;AN=62;BaseQRankSum=
24578	chrY	13462091	.	A	G	488.26	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24579	chrY	13462092	.	G	T,A	1899.85	PASS	AC=5,4;AF=0.071,0.057;AN=70;BaseQ
24580	chrY	13462097	.	C	A	274.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
24581	chrY	13462098	.	T	C	8709.98	PASS	AC=27;AF=0.450;AN=60;BaseQRankSum=
24582	chrY	13462105	.	A	C	349.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24583	chrY	13462107	.	T	A	1511.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24584	chrY	13462108	.	C	G	476.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24585	chrY	13462109	.	C	A	1248.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
24586	chrY	13462113	.	C	G	36.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24587	chrY	13462114	.	T	A	1946.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24588	chrY	13462117	.	A	C,G	11729.04	PASS	AC=25,4;AF=0.417,0.067;AN=
24589	chrY	13462120	.	G	A	253.56	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
24590	chrY	13462124	.	G	A	666.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24591	chrY	13462131	.	T	C	670.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24592	chrY	13462139	.	C	G	61.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24593	chrY	13462141	.	C	T	2148.49	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24594	chrY	13462142	.	C	G	2122.65	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24595	chrY	13462146	.	A	T	404.55	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
24596	chrY	13462148	.	C	A	153.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24597	chrY	13462149	.	C	A,G	330.19	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
24598	chrY	13462153	.	C	G,T	531.11	my_snp_filter	AC=7,2;AF=0.100,0.029;AN=
24599	chrY	13462154	.	A	T	4060.46	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
24600	chrY	13462155	.	A	G,T	25374.76	PASS	AC=22,8;AF=0.367,0.133;AN=
24601	chrY	13462157	.	C	G	384.68	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
24602	chrY	13462158	.	C	T	612.78	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
24603	chrY	13462160	.	G	T	291.46	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
24604	chrY	13462162	.	T	A	125.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24605	chrY	13462164	.	C	T	117.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24606	chrY	13462168	.	C	G	545.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24607	chrY	13462169	.	T	A	140.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24608	chrY	13462176	.	G	T	584.09	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24609	chrY	13462178	.	C	T	646.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24610	chrY	13462179	.	G	A	677.98	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
24611	chrY	13462180	.	C	T	3673.35	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
24612	chrY	13462181	.	A	G,T	16205.75	PASS	AC=26,4;AF=0.433,0.067;AN=
24613	chrY	13462183	.	G	A	1212.16	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
24614	chrY	13462184	.	G	A	130.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24615	chrY	13462185	.	G	C	678.93	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
24616	chrY	13462187	.	A	G	19099.36	PASS	AC=29;AF=0.500;AN=58;Base
24617	chrY	13462189	.	C	G	229.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24618	chrY	13462191	.	A	C,T	918.35	PASS	AC=7,1;AF=0.100,0.014;AN=70;BaseQ
24619	chrY	13462192	.	G	A	1087.69	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
24620	chrY	13462195	.	A	T	161.85	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24621	chrY	13462197	.	C	T	658.49	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
24622	chrY	13462198	.	A	G	5612.11	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
24623	chrY	13462199	.	G	C	371.40	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24624	chrY	13462200	.	C	T	69.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

24625	chrY	13462203	.	C	T	346.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24626	chrY	13462205	.	A	T	183.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24627	chrY	13462207	.	T	C	591.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24628	chrY	13462212	.	G	A	290.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24629	chrY	13462213	.	C	T	1105.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24630	chrY	13462214	.	G	C	8574.27	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
24631	chrY	13462215	.	G	T	9234.45	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
24632	chrY	13462217	.	A	G	736.16	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
24633	chrY	13462220	.	C	T	42.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24634	chrY	13462221	.	C	T	516.48	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
24635	chrY	13462222	.	T	C	42.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24636	chrY	13462223	.	G	A	599.70	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24637	chrY	13462224	.	G	A	812.70	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24638	chrY	13462225	.	A	C	250.74	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24639	chrY	13462226	.	G	T	435.71	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
24640	chrY	13462227	.	T	A	22872.15	PASS	AC=19;AF=0.413;AN=46;BaseQ
24641	chrY	13462228	.	G	A	165.35	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24642	chrY	13462232	.	C	G	9081.40	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
24643	chrY	13462233	.	G	A	1005.44	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24644	chrY	13462234	.	G	C	8954.29	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
24645	chrY	13462236	.	G	A	585.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
24646	chrY	13462239	.	C	A	34.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24647	chrY	13462241	.	A	T	63.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24648	chrY	13462243	.	C	A	206.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24649	chrY	13462247	.	C	G	8350.85	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
24650	chrY	13462251	.	T	A	17944.51	PASS	AC=14;AF=0.389;AN=36;BaseQ
24651	chrY	13462252	.	C	A, T	604.28	PASS	AC=1,2;AF=0.021,0.042;AN=48;BaseQ
24652	chrY	13462254	.	T	C	13077.98	PASS	AC=13;AF=0.325;AN=40;BaseQ
24653	chrY	13462258	.	C	A	98.13	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24654	chrY	13462259	.	C	G	74.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24655	chrY	13462260	.	C	T	7658.21	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
24656	chrY	13462266	.	C	A	45.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24657	chrY	13462267	.	C	A	8110.67	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
24658	chrY	13462270	.	A	T	13132.11	PASS	AC=13;AF=0.464;AN=28;BaseQ
24659	chrY	13462273	.	C	T	198.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24660	chrY	13462275	.	C	T	170.02	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24661	chrY	13462276	.	T	G	45.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24662	chrY	13462277	.	C	G	128.21	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
24663	chrY	13462278	.	G	T	994.29	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
24664	chrY	13462279	.	C	A	75.73	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24665	chrY	13462283	.	C	A	181.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24666	chrY	13462287	.	A	C	1213.51	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
24667	chrY	13462290	.	T	A	799.93	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
24668	chrY	13462292	.	C	T	113.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24669	chrY	13462293	.	G	A	181	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24670	chrY	13462295	.	G	A, C	6658.40	PASS	AC=9,1;AF=0.167,0.019;AN=54;BaseQ
24671	chrY	13462300	.	T	C	7718.35	PASS	AC=10;AF=0.238;AN=42;BaseQRankSum=
24672	chrY	13462301	.	G	A	5519.12	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
24673	chrY	13462303	.	C	T	1531.60	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
24674	chrY	13462304	.	C	A	35.71	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24675	chrY	13462306	.	C	A	71.49	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
24676	chrY	13462310	.	A	T	30.18	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
24677	chrY	13462313	.	G	A	133.84	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24678	chrY	13462324	.	G	A	4457.50	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
24679	chrY	13462328	.	A	T	6357.96	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
24680	chrY	13462333	.	C	A	402.30	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
24681	chrY	13462335	.	A	C	497.99	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
24682	chrY	13462339	.	T	C	710.34	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
24683	chrY	13462341	.	C	A	2090.84	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
24684	chrY	13462342	.	A	T	150.02	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24685	chrY	13462346	.	T	C	2821.58	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=
24686	chrY	13462348	.	C	G	205.75	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
24687	chrY	13462350	.	C	A	2215.11	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
24688	chrY	13462352	.	G	A	2122.69	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
24689	chrY	13462355	.	C	T	46.42	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
24690	chrY	13462356	.	T	G	2582.76	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
24691	chrY	13462393	.	C	T	231.37	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24692	chrY	13462394	.	G	T	52.90	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
24693	chrY	13462395	.	T	G	41.33	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
24694	chrY	13462396	.	G	A	231.67	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24695	chrY	13462397	.	C	A	35.57	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24696	chrY	13462404	.	A	G	164.94	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24697	chrY	13462406	.	G	A	160.07	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24698	chrY	13462413	.	G	C, T	477.53	PASS	AC=5,1;AF=0.132,0.026;AN=38;BaseQ
24699	chrY	13462414	.	G	A	92.04	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
24700	chrY	13462418	.	T	C	163.28	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=

24701	chrY	13462420	.	C	A	86.23	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
24702	chrY	13462426	.	G	T	198.27	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
24703	chrY	13462427	.	T	A,G	328.20	PASS	AC=2,1;AF=0.048,0.024;AN=42;BaseQ
24704	chrY	13462429	.	C	G	250.64	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
24705	chrY	13462433	.	A	G	52.81	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
24706	chrY	13462434	.	A	G	181.76	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
24707	chrY	13462442	.	A	G	103.27	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
24708	chrY	13462447	.	A	C	124.48	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
24709	chrY	13462475	.	T	G	305.10	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
24710	chrY	13462481	.	G	T	306.19	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
24711	chrY	13462485	.	C	G	411.45	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
24712	chrY	13462487	.	C	G	299.48	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
24713	chrY	13462496	.	T	A	180.43	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
24714	chrY	13462511	.	G	C	222.99	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
24715	chrY	13462518	.	A	C	362.27	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
24716	chrY	13462519	.	C	T	316.75	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
24717	chrY	13462597	.	T	G	100.48	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
24718	chrY	13462601	.	A	T	99.96	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
24719	chrY	13462607	.	C	T	50.35	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24720	chrY	13462610	.	C	T	44.15	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24721	chrY	13462612	.	T	C	42.64	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24722	chrY	13462618	.	A	G	71.55	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
24723	chrY	13462629	.	T	C	38.83	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
24724	chrY	13462632	.	A	G	166.78	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
24725	chrY	13462634	.	A	T	40.50	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24726	chrY	13462635	.	A	T	40.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24727	chrY	13462637	.	C	T	49.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24728	chrY	13462639	.	C	A	139.51	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
24729	chrY	13462640	.	G	A	92.89	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24730	chrY	13462645	.	C	G,T	304.05	PASS	AC=2,4;AF=0.030,0.061;AN=66;BaseQ
24731	chrY	13462647	.	G	T	80.81	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24732	chrY	13462648	.	G	T	1155.17	PASS	AC=15;AF=0.234;AN=64;BaseQRankSum=
24733	chrY	13462651	.	C	T,A	201.35	PASS	AC=4,3;AF=0.065,0.048;AN=62;BaseQ
24734	chrY	13462653	.	G	A	143.75	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24735	chrY	13462655	.	G	A	669.65	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
24736	chrY	13462665	.	C	G	99.27	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24737	chrY	13462670	.	G	A	99.45	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24738	chrY	13462673	.	C	A	42.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24739	chrY	13462675	.	C	G	392.17	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
24740	chrY	13462676	.	G	T,C	1766.55	PASS	AC=9,10;AF=0.167,0.185;AN=54;Base
24741	chrY	13462680	.	C	A	101.51	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
24742	chrY	13462686	.	T	C	752.78	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
24743	chrY	13462687	.	G	T	66.12	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
24744	chrY	13462690	.	G	A	223.99	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24745	chrY	13462694	.	T	A	668.68	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
24746	chrY	13462697	.	G	A	921.35	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
24747	chrY	13462701	.	C	G	68.37	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
24748	chrY	13462702	.	A	T	1374.63	PASS	AC=13;AF=0.310;AN=42;BaseQRankSum=
24749	chrY	13462712	.	G	A	65.92	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
24750	chrY	13462731	.	C	G	153.01	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
24751	chrY	13462741	.	A	G	453.60	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
24752	chrY	13462985	.	G	C	67.89	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24753	chrY	13462988	.	T	C	167.09	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
24754	chrY	13462991	.	C	T	53.57	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
24755	chrY	13462996	.	A	G	53.90	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
24756	chrY	13463002	.	G	T	47.61	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
24757	chrY	13463011	.	C	T	322.55	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
24758	chrY	13463048	.	T	G	152.83	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
24759	chrY	13463067	.	T	C	175.01	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
24760	chrY	13463072	.	C	A	187.29	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
24761	chrY	13463082	.	T	C	122.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
24762	chrY	13463088	.	G	A	124.78	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
24763	chrY	13463089	.	C	T	126.19	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
24764	chrY	13463103	.	T	C	80.73	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24765	chrY	13463120	.	G	T	51.18	PASS	AC=2;AF=0.033;AN=60;DP=465;FS=0.0
24766	chrY	13463127	.	G	A	30.33	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
24767	chrY	13463133	.	G	A	294.06	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
24768	chrY	13463140	.	C	A	95.42	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
24769	chrY	13463145	.	A	G	468.04	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
24770	chrY	13463147	.	G	A	83.96	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
24771	chrY	13463156	.	A	G	773.91	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
24772	chrY	13463157	.	G	T	257.40	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
24773	chrY	13463159	.	G	T	269.74	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
24774	chrY	13463163	.	C	T	237.11	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
24775	chrY	13463167	.	C	A	371.17	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24776	chrY	13463175	.	G	A	180.04	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=

24777	chrY	13463183	.	T	C	336.01	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
24778	chrY	13463184	.	A	G	767.14	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
24779	chrY	13463193	.	G	C	65.66	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24780	chrY	13463194	.	C	T	144.19	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
24781	chrY	13463201	.	A	C	329.88	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
24782	chrY	13463203	.	A	G	334.51	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
24783	chrY	13463204	.	A	G	513.51	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
24784	chrY	13463211	.	T	G	321.18	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
24785	chrY	13463214	.	A	G	158.61	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
24786	chrY	13463220	.	C	A	550.18	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
24787	chrY	13463226	.	T	G	2156.54	PASS	AC=14;AF=0.350;AN=40;BaseQRankSum=
24788	chrY	13463227	.	C	T	716.21	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
24789	chrY	13463228	.	G	A,C	372.98	PASS	AC=1,2;AF=0.021,0.042;AN=48;BaseQ
24790	chrY	13463229	.	A	T	683.76	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24791	chrY	13463230	.	G	C	112.23	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
24792	chrY	13463231	.	A	G,T	6433.48	PASS	AC=33,13;AF=0.688,0.271;AN=48;Bas
24793	chrY	13463234	.	C	T	134.74	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24794	chrY	13463235	.	A	G	780.47	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
24795	chrY	13463237	.	C	T	712.18	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24796	chrY	13463238	.	C	T	305.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24797	chrY	13463239	.	C	A,T	465.35	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
24798	chrY	13463240	.	C	T	65.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24799	chrY	13463241	.	G	T	171.72	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24800	chrY	13463244	.	C	T	109.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24801	chrY	13463246	.	C	T	198.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24802	chrY	13463252	.	C	T	63.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24803	chrY	13463255	.	C	G	241.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24804	chrY	13463256	.	C	T	658.78	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
24805	chrY	13463257	.	A	T	588.81	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
24806	chrY	13463261	.	C	T	153.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24807	chrY	13463262	.	G	A	251.31	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
24808	chrY	13463263	.	C	T	239.84	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24809	chrY	13463266	.	C	T	749.10	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
24810	chrY	13463267	.	A	G	1789.13	PASS	AC=20;AF=0.333;AN=60;BaseQRankSum=
24811	chrY	13463268	.	G	T	757.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24812	chrY	13463269	.	C	A,T	510.98	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
24813	chrY	13463271	.	G	T	111.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24814	chrY	13463274	.	G	C	69.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24815	chrY	13463275	.	G	A	180.08	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24816	chrY	13463281	.	C	A	52.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24817	chrY	13463282	.	C	G	51.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24818	chrY	13463283	.	C	G	1020.88	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24819	chrY	13463285	.	A	C,T	1215.24	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
24820	chrY	13463286	.	C	T	180.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24821	chrY	13463289	.	G	T	362.98	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24822	chrY	13463290	.	C	T	121.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24823	chrY	13463291	.	C	T	243.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24824	chrY	13463292	.	C	G	247.33	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24825	chrY	13463293	.	C	T	337.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24826	chrY	13463294	.	G	A	443.47	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24827	chrY	13463295	.	G	T	124.93	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24828	chrY	13463297	.	A	T	114.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24829	chrY	13463298	.	T	C,G	3075.46	PASS	AC=7,7;AF=0.106,0.106;AN=66;BaseQ
24830	chrY	13463299	.	G	T	559.47	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
24831	chrY	13463300	.	C	T	347	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24832	chrY	13463301	.	G	A	162.96	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24833	chrY	13463304	.	G	A	159.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24834	chrY	13463305	.	A	G	48.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24835	chrY	13463307	.	T	C	154.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24836	chrY	13463312	.	C	T	819.57	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24837	chrY	13463314	.	A	T	214.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24838	chrY	13463315	.	C	T,G	1230.64	PASS	AC=7,3;AF=0.106,0.045;AN=66;BaseQ
24839	chrY	13463316	.	G	A	140.62	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
24840	chrY	13463318	.	C	T	399.57	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
24841	chrY	13463319	.	T	G,A	3378.32	PASS	AC=14,6;AF=0.280,0.120;AN=50;Base
24842	chrY	13463320	.	C	T	934.36	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
24843	chrY	13463323	.	C	A	134.35	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
24844	chrY	13463324	.	G	A	563.24	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
24845	chrY	13463325	.	G	A	166.42	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24846	chrY	13463326	.	C	A	137.79	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24847	chrY	13463328	.	C	A	133.11	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24848	chrY	13463329	.	C	T	81.74	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24849	chrY	13463330	.	T	A,C	768.05	PASS	AC=5,2;AF=0.074,0.029;AN=68;BaseQ
24850	chrY	13463332	.	T	C	2503.16	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
24851	chrY	13463333	.	G	A,T	267.44	PASS	AC=6,2;AF=0.107,0.036;AN=56;BaseQ
24852	chrY	13463337	.	G	T	155.82	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=

24853	chrY	13463338	.	G	T	81.66	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
24854	chrY	13463341	.	C	T	156.64	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
24855	chrY	13463342	.	T	G,A	1319.82	PASS	AC=8,2;AF=0.190,0.048;AN=42;BaseQ
24856	chrY	13463343	.	C	G,T	310.30	PASS	AC=2,3;AF=0.040,0.060;AN=50;BaseQ
24857	chrY	13463347	.	C	A	217.31	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
24858	chrY	13463348	.	T	C	2342.32	PASS	AC=13;AF=0.325;AN=40;BaseQRankSum=
24859	chrY	13463358	.	G	A	294.61	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
24860	chrY	13463359	.	C	T	406.84	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
24861	chrY	13463360	.	G	T	1710.09	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
24862	chrY	13463363	.	T	C	471.75	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
24863	chrY	13463365	.	G	A	248.50	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
24864	chrY	13463374	.	C	A	336.28	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
24865	chrY	13463379	.	C	A	121.88	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
24866	chrY	13463386	.	A	G	34.73	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
24867	chrY	13463391	.	C	A	86.02	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
24868	chrY	13463398	.	G	A	208.87	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
24869	chrY	13463400	.	T	C	128.84	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
24870	chrY	13463402	.	T	G	116.16	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
24871	chrY	13463425	.	T	C	35.36	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
24872	chrY	13463456	.	G	T	165.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
24873	chrY	13463605	.	G	T	98.76	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
24874	chrY	13463608	.	T	G	100.10	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
24875	chrY	13463666	.	T	G	50.01	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
24876	chrY	13463692	.	C	T	85.12	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
24877	chrY	13463697	.	G	T	83.10	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
24878	chrY	13463704	.	G	A	77.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24879	chrY	13463708	.	G	A	259.58	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24880	chrY	13463711	.	G	T	104.25	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
24881	chrY	13463712	.	A	T	103.20	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24882	chrY	13463713	.	G	A	96.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24883	chrY	13463717	.	C	T	123.90	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24884	chrY	13463720	.	G	T	198.63	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
24885	chrY	13463721	.	T	A,C	2076.73	PASS	AC=4,6;AF=0.071,0.107;AN=56;BaseQ
24886	chrY	13463725	.	C	A	140.96	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
24887	chrY	13463726	.	C	A	108.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24888	chrY	13463727	.	C	A,T	1316.80	PASS	AC=3,6;AF=0.047,0.094;AN=64;BaseQ
24889	chrY	13463728	.	G	A,T	1680.53	PASS	AC=9,3;AF=0.136,0.045;AN=66;BaseQ
24890	chrY	13463730	.	A	T	638.56	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
24891	chrY	13463731	.	G	T	121.14	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
24892	chrY	13463732	.	T	A	218.44	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24893	chrY	13463735	.	C	T	55.89	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
24894	chrY	13463736	.	T	A	370.05	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
24895	chrY	13463738	.	C	A	344.03	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24896	chrY	13463740	.	G	A	90.94	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24897	chrY	13463744	.	G	T	50.27	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24898	chrY	13463745	.	C	T	1035.37	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
24899	chrY	13463746	.	G	A	122.73	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
24900	chrY	13463749	.	A	T	259.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24901	chrY	13463751	.	C	A	92.62	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24902	chrY	13463753	.	T	G	52.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
24903	chrY	13463767	.	G	A	317.51	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
24904	chrY	13463772	.	G	C,*	386.56	PASS	AC=1,4;AF=0.018,0.071;AN=56;BaseQ
24905	chrY	13463774	.	G	T,A,*	453.01	PASS	AC=2,1,4;AF=0.029,0.014,0.057;AN=
24906	chrY	13463778	.	G	T	848.82	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
24907	chrY	13463779	.	A	C	3188.85	PASS	AC=17;AF=0.340;AN=50;BaseQRankSum=
24908	chrY	13463782	.	G	C	88.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24909	chrY	13463786	.	C	A	259.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24910	chrY	13463787	.	C	A	131.87	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24911	chrY	13463790	.	G	T	94.11	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
24912	chrY	13463793	.	A	T	91.26	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24913	chrY	13463795	.	A	G	97.29	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24914	chrY	13463797	.	G	A	91.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24915	chrY	13463799	.	C	T	616.97	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
24916	chrY	13463801	.	C	A	296.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24917	chrY	13463802	.	C	A	300.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24918	chrY	13463805	.	A	G	611.14	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
24919	chrY	13463807	.	T	G	88.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24920	chrY	13463809	.	G	A	187.26	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24921	chrY	13463813	.	C	A	345.91	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
24922	chrY	13463816	.	C	T	70.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24923	chrY	13463823	.	C	T	3427.71	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
24924	chrY	13463824	.	G	A	379.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24925	chrY	13463827	.	G	C	2422.13	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
24926	chrY	13463831	.	T	A	4644.58	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=
24927	chrY	13463834	.	A	C,*	893.86	PASS	AC=6,2;AF=0.088,0.029;AN=68;BaseQ
24928	chrY	13463838	.	T	G,*	825.13	PASS	AC=3,5;AF=0.050,0.083;AN=60;BaseQ

24929	chrY	13463839	.	T	C,*	1470.96	PASS	AC=6,4;AF=0.097,0.065;AN=62;BaseQ
24930	chrY	13463848	.	G	C	138.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
24931	chrY	13463860	.	C	G	3658.97	PASS	AC=18;AF=0.375;AN=48;BaseQRankSum=
24932	chrY	13463861	.	A	T	1558.43	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
24933	chrY	13463863	.	G	A,T	647.63	PASS	AC=1,1;AF=0.015,0.015;AN=66;BaseQ
24934	chrY	13463864	.	C	T	209.72	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24935	chrY	13463865	.	G	A	451.23	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
24936	chrY	13463866	.	G	T	690.81	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
24937	chrY	13463868	.	A	G	3576.46	PASS	AC=16;AF=0.381;AN=42;BaseQRankSum=
24938	chrY	13463869	.	T	C	1617.19	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
24939	chrY	13463873	.	G	T	213.63	PASS	AC=10;AF=0.014;AN=70;BaseQRankSum=
24940	chrY	13463875	.	C	G	1481.22	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
24941	chrY	13463876	.	G	T	669.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24942	chrY	13463877	.	G	A	219.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24943	chrY	13463878	.	G	T	1992.38	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
24944	chrY	13463881	.	C	T	692.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
24945	chrY	13463888	.	G	T,A	547.25	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
24946	chrY	13463891	.	C	A	62.24	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24947	chrY	13463893	.	G	A	269	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24948	chrY	13463894	.	G	T	220.98	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
24949	chrY	13463901	.	G	T	252.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24950	chrY	13463903	.	C	T	1772.64	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
24951	chrY	13463905	.	C	T	54.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24952	chrY	13463906	.	T	A	328.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24953	chrY	13463907	.	C	A	1459.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24954	chrY	13463911	.	C	T	1486.49	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
24955	chrY	13463912	.	G	A	1149.92	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24956	chrY	13463913	.	C	T,A	1993.74	PASS	AC=7,3;AF=0.100,0.043;AN=70;BaseQ
24957	chrY	13463914	.	G	A	79.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24958	chrY	13463919	.	A	G	763.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24959	chrY	13463920	.	A	C,T	4866.30	PASS	AC=10,7;AF=0.167,0.117;AN=60;Base
24960	chrY	13463921	.	A	T	764.66	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
24961	chrY	13463923	.	C	A	69.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
24962	chrY	13463925	.	G	T	1676.93	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
24963	chrY	13463927	.	C	A	105.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24964	chrY	13463936	.	G	T	132.66	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24965	chrY	13463937	.	A	T	30.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24966	chrY	13463941	.	G	T	881.27	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
24967	chrY	13463942	.	T	C	4221.94	PASS	AC=25;AF=0.431;AN=58;BaseQRankSum=
24968	chrY	13463943	.	G	A,T	1680.94	PASS	AC=12,1;AF=0.207,0.017;AN=58;Base
24969	chrY	13463945	.	G	T	804.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
24970	chrY	13463948	.	T	C	2030.47	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
24971	chrY	13463951	.	C	A	2020.14	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
24972	chrY	13463963	.	T	C	4538.85	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
24973	chrY	13463964	.	G	T	46.08	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
24974	chrY	13463965	.	G	A	2772.91	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
24975	chrY	13463967	.	C	A	1365.55	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
24976	chrY	13463972	.	C	T	927.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
24977	chrY	13463973	.	G	A	158.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24978	chrY	13463974	.	G	A	40.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
24979	chrY	13463976	.	C	A,G	2825.42	PASS	AC=9,7;AF=0.136,0.106;AN=66;BaseQ
24980	chrY	13463978	.	G	A	1233.68	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
24981	chrY	13463979	.	G	A	244.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
24982	chrY	13463980	.	G	T	71.19	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24983	chrY	13463995	.	G	A	265.83	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
24984	chrY	13463996	.	G	A	45.98	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
24985	chrY	13463997	.	T	A	1338.50	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
24986	chrY	13463998	.	A	C	3781.23	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
24987	chrY	13464003	.	C	A	80.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
24988	chrY	13464006	.	G	A	208.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24989	chrY	13464008	.	T	C	243.48	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
24990	chrY	13464010	.	A	G	1069.17	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
24991	chrY	13464013	.	G	T	200.97	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
24992	chrY	13464017	.	C	T	55.61	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
24993	chrY	13464018	.	C	T	477.42	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
24994	chrY	13464020	.	C	T	705.23	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
24995	chrY	13464022	.	C	G	841.95	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
24996	chrY	13464025	.	C	T	174.60	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
24997	chrY	13464026	.	G	A	476.68	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
24998	chrY	13464027	.	G	T,C	766.17	PASS	AC=4,2;AF=0.065,0.032;AN=62;BaseQ
24999	chrY	13464028	.	A	G	34.96	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
25000	chrY	13464031	.	T	A	3213.67	my_snp_filter	AC=9;AF=0.237;AN=38;BaseQ
25001	chrY	13464032	.	C	A	594.03	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
25002	chrY	13464033	.	T	A	61.25	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
25003	chrY	13464034	.	G	A	985.91	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25004	chrY	13464036	.	C	A	89.16	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ

25005	chrY	13464044	.	C	T	42.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25006	chrY	13464048	.	G	A	635.78	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25007	chrY	13464052	.	T	A	41.95	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25008	chrY	13464055	.	C	T	138.17	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
25009	chrY	13464058	.	G	A	147.58	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25010	chrY	13464146	.	G	T	32.58	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25011	chrY	13464387	.	G	A	37.30	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25012	chrY	13464390	.	G	A	112.25	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25013	chrY	13464392	.	A	G,C	972.09	PASS	AC=8,3;AF=0.143,0.054;AN=56;BaseQ
25014	chrY	13464394	.	T	C,G	1320.51	PASS	AC=9,3;AF=0.188,0.063;AN=48;BaseQ
25015	chrY	13464397	.	G	T	40.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25016	chrY	13464401	.	T	C	128.71	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
25017	chrY	13464402	.	G	A	109.27	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
25018	chrY	13464403	.	G	A	570.40	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
25019	chrY	13464406	.	C	A	158.70	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
25020	chrY	13464407	.	A	G	77.62	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
25021	chrY	13464412	.	C	T	160.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25022	chrY	13464415	.	C	G	60.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25023	chrY	13464416	.	T	A	303.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25024	chrY	13464417	.	A	C	363.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25025	chrY	13464422	.	T	A	39.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25026	chrY	13464424	.	C	T	2452.84	PASS	AC=19;AF=0.380;AN=50;BaseQRankSum=
25027	chrY	13464430	.	G	A	126.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25028	chrY	13464432	.	C	G	552.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25029	chrY	13464437	.	T	C	523.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25030	chrY	13464440	.	C	A	315.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25031	chrY	13464447	.	T	C	529.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25032	chrY	13464449	.	C	T	533.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25033	chrY	13464450	.	G	C	81.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25034	chrY	13464458	.	C	T	618.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25035	chrY	13464459	.	G	A	734.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25036	chrY	13464462	.	C	A	571.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25037	chrY	13464463	.	T	C	4862.01	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
25038	chrY	13464464	.	C	A	1218.03	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
25039	chrY	13464465	.	C	T	479.24	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
25040	chrY	13464466	.	A	G,T	486.95	PASS	AC=5,3;AF=0.076,0.045;AN=66;BaseQ
25041	chrY	13464468	.	C	G	81.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25042	chrY	13464472	.	C	T	74.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25043	chrY	13464473	.	G	A	346.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25044	chrY	13464478	.	A	C	39.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25045	chrY	13464479	.	G	C	121.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25046	chrY	13464480	.	G	A	102.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25047	chrY	13464485	.	C	A	128	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25048	chrY	13464486	.	C	G	273.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25049	chrY	13464487	.	G	A	435.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25050	chrY	13464488	.	C	A	1033.55	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25051	chrY	13464497	.	C	A	40.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25052	chrY	13464499	.	G	A	459.59	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25053	chrY	13464502	.	C	A	103.20	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25054	chrY	13464504	.	C	A	44.08	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25055	chrY	13464506	.	T	A,*	496.43	PASS	AC=5,1;AF=0.076,0.015;AN=66;BaseQ
25056	chrY	13464507	.	T	G,C	5364.85	PASS	AC=16,1;AF=0.276,0.017;AN=58;Base
25057	chrY	13464510	.	T	C	4577.46	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
25058	chrY	13464513	.	C	A	540.77	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25059	chrY	13464515	.	C	A,G	4410.61	PASS	AC=12,5;AF=0.207,0.086;AN=58;Base
25060	chrY	13464524	.	C	T,*	347.25	PASS	AC=2,1;AF=0.036,0.018;AN=56;BaseQ
25061	chrY	13464525	.	T	G,A	3257.09	PASS	AC=13,3;AF=0.241,0.056;AN=54;Base
25062	chrY	13464527	.	T	C	3554.88	PASS	AC=14;AF=0.259;AN=54;BaseQRankSum=
25063	chrY	13464532	.	G	A	223.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25064	chrY	13464534	.	T	A	130.29	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25065	chrY	13464535	.	C	T,A	1199.41	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
25066	chrY	13464536	.	T	C	85.72	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25067	chrY	13464537	.	C	G	498.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25068	chrY	13464545	.	C	A	500.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25069	chrY	13464548	.	C	T	1034.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25070	chrY	13464549	.	C	T	557.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25071	chrY	13464553	.	G	A	241.96	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25072	chrY	13464554	.	C	A	239.04	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25073	chrY	13464556	.	C	A	31.56	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25074	chrY	13464557	.	G	T	3067.42	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
25075	chrY	13464563	.	C	G	111.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25076	chrY	13464567	.	G	C	149.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25077	chrY	13464585	.	T	A	107.69	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
25078	chrY	13464586	.	A	C	1430.47	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
25079	chrY	13464597	.	G	T	2328.66	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
25080	chrY	13464599	.	A	C	131.23	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=

25081	chrY	13464601	.	T	C	189.25	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25082	chrY	13464608	.	A	T	157.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25083	chrY	13464613	.	G	T	2024.20	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
25084	chrY	13464621	.	T	C	53.88	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
25085	chrY	13464624	.	C	T	60.03	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
25086	chrY	13464627	.	C	T	689.87	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
25087	chrY	13464628	.	C	T	37.74	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
25088	chrY	13464630	.	T	G	34.55	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
25089	chrY	13464632	.	T	C	1678.33	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
25090	chrY	13464637	.	C	T	756.97	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
25091	chrY	13464642	.	A	G	350.18	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
25092	chrY	13464646	.	G	A	601.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25093	chrY	13464652	.	C	A	30.53	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25094	chrY	13464655	.	C	T	944.14	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25095	chrY	13464661	.	C	G	28005.17	PASS	AC=11;AF=0.172;AN=64;Base
25096	chrY	13464667	.	C	A	904.34	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
25097	chrY	13464672	.	C	T	175.43	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
25098	chrY	13464679	.	A	T	157.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25099	chrY	13464680	.	T	C	85.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25100	chrY	13464681	.	A	T	71.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25101	chrY	13464691	.	C	A	39.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25102	chrY	13464698	.	A	T	68.15	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25103	chrY	13464700	.	A	C	171.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25104	chrY	13464702	.	G	A	27121.08	PASS	AC=18;AF=0.300;AN=60;Base
25105	chrY	13464718	.	T	A	227.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25106	chrY	13464726	.	C	A	152.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25107	chrY	13464730	.	G	A	1108.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25108	chrY	13464731	.	G	T	133.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25109	chrY	13464735	.	T	C	94.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25110	chrY	13464743	.	T	G	339.79	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25111	chrY	13464746	.	G	T	224.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25112	chrY	13464752	.	C	T	66.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25113	chrY	13464774	.	C	T	125.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25114	chrY	13464775	.	T	C,G	11129.54	PASS	AC=10,2;AF=0.156,0.031;AN
25115	chrY	13464778	.	G	A	94.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25116	chrY	13464788	.	A	C	37.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25117	chrY	13464951	.	A	G	186.49	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
25118	chrY	13464966	.	T	C	1097.18	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
25119	chrY	13464967	.	C	A	30.49	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
25120	chrY	13464980	.	C	A	95.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25121	chrY	13464985	.	A	G	31.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25122	chrY	13465019	.	G	A	99.30	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25123	chrY	13465022	.	C	A	75.49	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25124	chrY	13465024	.	G	T	90.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25125	chrY	13465025	.	T	C	279.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25126	chrY	13465027	.	A	T	78.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25127	chrY	13465028	.	C	G	108.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25128	chrY	13465033	.	C	A	234.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25129	chrY	13465034	.	C	T	106.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25130	chrY	13465035	.	C	T	1606.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25131	chrY	13465036	.	C	T	82.71	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25132	chrY	13465038	.	G	T	64.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25133	chrY	13465040	.	A	C	69.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25134	chrY	13465046	.	A	T	512.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25135	chrY	13465047	.	G	A	63.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25136	chrY	13465048	.	C	A,G	395.57	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
25137	chrY	13465049	.	T	A	77.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25138	chrY	13465052	.	G	A	126.95	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25139	chrY	13465053	.	A	T	512.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25140	chrY	13465054	.	C	A	1271.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25141	chrY	13465057	.	G	C	76.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25142	chrY	13465059	.	G	A	117.86	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25143	chrY	13465068	.	C	A,T	1123.33	PASS	AC=10,3;AF=0.143,0.043;AN=70;Base
25144	chrY	13465069	.	C	T	1005.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
25145	chrY	13465070	.	T	A	140.57	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25146	chrY	13465071	.	G	C	243.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25147	chrY	13465072	.	G	A	76.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25148	chrY	13465073	.	G	T,A	775.79	PASS	AC=7,7;AF=0.100,0.100;AN=70;BaseQ
25149	chrY	13465077	.	T	C	147.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25150	chrY	13465080	.	G	C	74.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25151	chrY	13465082	.	G	T	153.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25152	chrY	13465083	.	C	A	75.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25153	chrY	13465087	.	G	C	307.81	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
25154	chrY	13465088	.	A	T,G	555.17	my_snp_filter	AC=5,1;AF=0.071,0.014;AN=
25155	chrY	13465089	.	T	C	214.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25156	chrY	13465094	.	C	G	482.86	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ

25157	chrY	13465099	.	C	T	457.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25158	chrY	13465100	.	G	A	1452.90	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
25159	chrY	13465101	.	C	T	463.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25160	chrY	13465104	.	C	A	37.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25161	chrY	13465106	.	G	A	478.01	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
25162	chrY	13465110	.	G	T	848.44	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
25163	chrY	13465113	.	G	A	40.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25164	chrY	13465115	.	A	T	82.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25165	chrY	13465116	.	C	A	2292.58	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25166	chrY	13465117	.	C	T,G	577.32	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
25167	chrY	13465122	.	C	G,A	2285.20	PASS	AC=4,3;AF=0.057,0.043;AN=70;BaseQ
25168	chrY	13465123	.	A	T	120.30	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25169	chrY	13465125	.	G	A	101.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25170	chrY	13465126	.	A	G	600.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25171	chrY	13465127	.	G	A	1147.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25172	chrY	13465130	.	A	C	67.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25173	chrY	13465133	.	T	A	179.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25174	chrY	13465134	.	C	G	247.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25175	chrY	13465136	.	C	A	656.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25176	chrY	13465139	.	A	G	15737.66	PASS	AC=19;AF=0.297;AN=64;BaseQ
25177	chrY	13465141	.	G	A,C	285.78	PASS	AC=2,2;AF=0.029,0.029;AN=68;BaseQ
25178	chrY	13465143	.	G	T	522.57	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
25179	chrY	13465144	.	G	A,T	15914.56	PASS	AC=19,1;AF=0.396,0.021;AN=
25180	chrY	13465148	.	G	C	266.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25181	chrY	13465149	.	T	C,A	397.90	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
25182	chrY	13465150	.	G	A	393.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25183	chrY	13465153	.	G	C	167.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25184	chrY	13465157	.	C	T	7045.12	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
25185	chrY	13465158	.	A	T	218.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25186	chrY	13465160	.	G	C,T	789.65	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
25187	chrY	13465163	.	A	C	324.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25188	chrY	13465164	.	G	A	54.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25189	chrY	13465168	.	T	A	193.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25190	chrY	13465169	.	C	T	122.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25191	chrY	13465171	.	C	A	253.49	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25192	chrY	13465172	.	A	G	4588.95	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
25193	chrY	13465175	.	T	A	94.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25194	chrY	13465177	.	G	A	36.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25195	chrY	13465178	.	G	A	515.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25196	chrY	13465181	.	G	C	252.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25197	chrY	13465183	.	G	C	81	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25198	chrY	13465184	.	C	T	321.61	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25199	chrY	13465186	.	T	C	52.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25200	chrY	13465194	.	T	A	249.27	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25201	chrY	13465197	.	A	T	4576.83	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQ
25202	chrY	13465199	.	T	C	3459.80	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
25203	chrY	13465200	.	A	G	119	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25204	chrY	13465204	.	C	A	50.53	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25205	chrY	13465207	.	A	G	432.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25206	chrY	13465209	.	G	A	40.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25207	chrY	13465213	.	T	C	222.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25208	chrY	13465219	.	C	A	128.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25209	chrY	13465224	.	A	G	40.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25210	chrY	13465225	.	T	A	569.63	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25211	chrY	13465229	.	T	C	104.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25212	chrY	13465232	.	T	A	391.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25213	chrY	13465234	.	C	A,G	5802.07	my_snp_filter	AC=9,1;AF=0.250,0.028;AN=
25214	chrY	13465237	.	C	A	345.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25215	chrY	13465241	.	C	T	220.38	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
25216	chrY	13465252	.	G	C	160.29	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25217	chrY	13465253	.	A	C	4401.80	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
25218	chrY	13465256	.	A	G	253.85	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25219	chrY	13465267	.	C	A	92.17	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
25220	chrY	13465277	.	G	C	199.56	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
25221	chrY	13465280	.	G	T	442.65	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
25222	chrY	13465281	.	A	G	118.08	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
25223	chrY	13465282	.	T	A	491.70	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
25224	chrY	13465286	.	T	A	56.88	PASS	AC=2;AF=0.040;AN=50;DP=5485;FS=0.
25225	chrY	13465287	.	G	A	1839.37	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
25226	chrY	13465288	.	C	A	929.97	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
25227	chrY	13465292	.	G	A	111.86	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
25228	chrY	13465295	.	G	A	90.01	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
25229	chrY	13465300	.	A	T,G	2490.46	PASS	AC=6,2;AF=0.120,0.040;AN=50;BaseQ
25230	chrY	13465305	.	A	G	45580.21	my_snp_filter	AC=12;AF=0.240;AN=
25231	chrY	13465306	.	C	G	735.09	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
25232	chrY	13465307	.	C	T	66.89	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ

25233	chrY	13465309	.	C	A	663.09	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
25234	chrY	13465310	.	T	C	1716.18	my_snp_filter	AC=6;AF=0.136;AN=44;BaseQ
25235	chrY	13465311	.	G	C	57.36	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
25236	chrY	13465312	.	T	A	5100.89	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
25237	chrY	13465313	.	A	C	168.69	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
25238	chrY	13465314	.	G	A	1412.75	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
25239	chrY	13465315	.	G	A	54.11	my_snp_filter	AC=2;AF=0.034;AN=58;DP=69
25240	chrY	13465317	.	A	C	54.92	my_snp_filter	AC=2;AF=0.034;AN=58;DP=55
25241	chrY	13465320	.	G	T	66.29	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
25242	chrY	13465321	.	C	A	2686.41	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
25243	chrY	13465322	.	T	C	51769.20	my_snp_filter	AC=20;AF=0.556;AN=
25244	chrY	13465323	.	T	C	504.29	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
25245	chrY	13465325	.	G	C	50.88	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25246	chrY	13465327	.	C	A	49.38	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25247	chrY	13465329	.	A	T	79.03	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
25248	chrY	13465331	.	A	T	2334.18	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
25249	chrY	13465332	.	G	A	318.07	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
25250	chrY	13465333	.	T	A	40.47	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25251	chrY	13465337	.	A	T	40.06	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25252	chrY	13465342	.	T	A	1066.81	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
25253	chrY	13465345	.	G	C	974.89	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
25254	chrY	13465346	.	T	G	39.34	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
25255	chrY	13465347	.	T	C	993.29	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
25256	chrY	13465352	.	A	T	785.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25257	chrY	13465363	.	G	A	1225.43	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
25258	chrY	13465364	.	T	C	61.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25259	chrY	13465365	.	G	A	32.02	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25260	chrY	13465366	.	T	C	3850.59	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25261	chrY	13465371	.	A	G	60.02	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
25262	chrY	13465374	.	T	C	820.90	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
25263	chrY	13465380	.	T	A	1231.57	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQ
25264	chrY	13465381	.	A	T	1651.46	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQ
25265	chrY	13465383	.	G	C	424.46	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
25266	chrY	13465386	.	G	C	107.88	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
25267	chrY	13465389	.	C	G,A	3661.85	PASS	AC=5,5;AF=0.083,0.083;AN=60;BaseQ
25268	chrY	13465390	.	T	A	978.01	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
25269	chrY	13465395	.	C	A,G	250.27	my_snp_filter	AC=1,1;AF=0.016,0.016;AN=
25270	chrY	13465398	.	C	G	29148.16	my_snp_filter	AC=14;AF=0.259;AN=
25271	chrY	13465399	.	A	T	1607.91	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
25272	chrY	13465401	.	T	G	2062.46	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
25273	chrY	13465409	.	C	T,A	1261.51	PASS	AC=3,5;AF=0.047,0.078;AN=64;BaseQ
25274	chrY	13465411	.	G	C	62.94	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
25275	chrY	13465414	.	T	A,C	225.42	my_snp_filter	AC=3,1;AF=0.045,0.015;AN=
25276	chrY	13465421	.	T	G	1064.26	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
25277	chrY	13465429	.	T	G	1166.90	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
25278	chrY	13465430	.	A	T	225.75	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
25279	chrY	13465431	.	T	C	77.83	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
25280	chrY	13465432	.	G	A	281.92	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
25281	chrY	13465440	.	G	A	1223.96	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
25282	chrY	13465441	.	A	T	10564.80	my_snp_filter	AC=9;AF=0.155;AN=
25283	chrY	13465443	.	C	T	44.35	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
25284	chrY	13465444	.	C	T	94.54	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
25285	chrY	13465445	.	A	T,C	11028.51	my_snp_filter	AC=6,8;AF=0.115,0
25286	chrY	13465446	.	A	G,T	11708.36	my_snp_filter	AC=6,7;AF=0.111,0
25287	chrY	13465455	.	T	A	95.12	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25288	chrY	13465459	.	T	C	56.90	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
25289	chrY	13465460	.	A	G	1855.04	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
25290	chrY	13465463	.	C	T,G	2064.94	PASS	AC=8,2;AF=0.125,0.031;AN=64;BaseQ
25291	chrY	13465468	.	G	T	1668.33	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
25292	chrY	13465475	.	C	T	69.62	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25293	chrY	13465477	.	C	A	49.71	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25294	chrY	13465485	.	A	T	1233.95	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
25295	chrY	13465489	.	G	T	98.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25296	chrY	13465493	.	T	A,G	7406.18	my_snp_filter	AC=15,3;AF=0.288,0.058;AN=
25297	chrY	13465499	.	A	G	135.46	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25298	chrY	13465505	.	G	C	4058.58	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
25299	chrY	13465509	.	G	C	48.80	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25300	chrY	13465510	.	C	T	183.94	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25301	chrY	13465511	.	C	G,T	808.63	PASS	AC=5,1;AF=0.074,0.015;AN=68;BaseQ
25302	chrY	13465516	.	G	A	681.13	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25303	chrY	13465519	.	G	T,C,A	834.62	PASS	AC=1,2,2;AF=0.015,0.030,0.030;AN=
25304	chrY	13465525	.	G	T	103.72	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25305	chrY	13465546	.	C	T	521.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25306	chrY	13465549	.	A	T	150.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25307	chrY	13465551	.	G	T	177.59	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
25308	chrY	13465552	.	A	T	2072.89	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=

25309	chrY	13465553	.	G	T	430.78	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
25310	chrY	13465555	.	T	A	123.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25311	chrY	13465556	.	C	A	122.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25312	chrY	13465561	.	T	C,A	1216.70	PASS	AC=8,2;AF=0.129,0.032;AN=62;BaseQ
25313	chrY	13465562	.	A	T,G	180.05	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
25314	chrY	13465566	.	G	A,T	1152.43	PASS	AC=6,1;AF=0.103,0.017;AN=58;BaseQ
25315	chrY	13465568	.	A	G	49.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25316	chrY	13465573	.	A	C	942.79	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25317	chrY	13465581	.	C	T	108.90	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25318	chrY	13465582	.	C	T	109.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25319	chrY	13465593	.	A	G	334.81	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25320	chrY	13465601	.	C	A	3343.94	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
25321	chrY	13465606	.	G	C	298.49	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25322	chrY	13465626	.	A	T	182.38	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
25323	chrY	13465631	.	A	T	2975.26	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
25324	chrY	13465633	.	C	A	3900.95	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
25325	chrY	13465649	.	C	T	3107.42	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
25326	chrY	13465666	.	A	G	174.04	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25327	chrY	13465674	.	C	G	331.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25328	chrY	13465679	.	A	G	94.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25329	chrY	13465684	.	C	A	335.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25330	chrY	13465705	.	A	G	31.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25331	chrY	13465707	.	G	A	91.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25332	chrY	13465708	.	T	A	31.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25333	chrY	13465727	.	C	T	968.81	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25334	chrY	13465731	.	G	C	874.64	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25335	chrY	13465742	.	A	G	500.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25336	chrY	13465743	.	T	G	501.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25337	chrY	13465745	.	C	A	410.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25338	chrY	13465747	.	T	C	408.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25339	chrY	13465761	.	T	C	118.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25340	chrY	13465767	.	C	A	115.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25341	chrY	13465768	.	C	G	73.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25342	chrY	13465770	.	A	G	82.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25343	chrY	13465894	.	T	G	420.99	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
25344	chrY	13465908	.	G	A	98.10	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25345	chrY	13465923	.	A	C	359.23	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
25346	chrY	13465931	.	G	C	61.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25347	chrY	13465944	.	C	G	62.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25348	chrY	13465959	.	C	T	68.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25349	chrY	13465961	.	G	C,A	330.67	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
25350	chrY	13465977	.	C	G,A	2434.34	PASS	AC=2,6;AF=0.053,0.158;AN=38;BaseQ
25351	chrY	13465986	.	C	G	62.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25352	chrY	13465988	.	G	A	3767.83	PASS	AC=15;AF=0.417;AN=36;BaseQRankSum=
25353	chrY	13465989	.	A	G	205.24	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
25354	chrY	13465992	.	A	C	3791.23	PASS	AC=15;AF=0.441;AN=34;BaseQRankSum=
25355	chrY	13465994	.	C	A	549.83	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25356	chrY	13465997	.	T	C	32.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25357	chrY	13466003	.	G	T	676.91	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25358	chrY	13466005	.	G	T	155.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25359	chrY	13466012	.	C	A,G	670.05	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
25360	chrY	13466013	.	A	G	487.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25361	chrY	13466015	.	G	C,A	1018.60	PASS	AC=2,2;AF=0.038,0.038;AN=52;BaseQ
25362	chrY	13466016	.	T	A	3849.90	PASS	AC=14;AF=0.318;AN=44;BaseQRankSum=
25363	chrY	13466019	.	T	C	411.07	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25364	chrY	13466025	.	T	A	107.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25365	chrY	13466029	.	G	C	144.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25366	chrY	13466051	.	T	A	55.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25367	chrY	13466056	.	A	C	225.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25368	chrY	13466058	.	G	A	337.25	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25369	chrY	13466063	.	T	C	90.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25370	chrY	13466070	.	C	T	160.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25371	chrY	13466071	.	G	A	445.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25372	chrY	13466072	.	A	G	316.41	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25373	chrY	13466074	.	C	A	77.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25374	chrY	13466078	.	G	A	298.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25375	chrY	13466079	.	A	C	345.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25376	chrY	13466083	.	A	G	5366.83	PASS	AC=21;AF=0.438;AN=48;BaseQRankSum=
25377	chrY	13466084	.	A	T	213.95	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
25378	chrY	13466085	.	G	C	101.06	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25379	chrY	13466087	.	T	C	409.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25380	chrY	13466089	.	C	A	200.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25381	chrY	13466090	.	A	T,G	707.46	PASS	AC=6,5;AF=0.086,0.071;AN=70;BaseQ
25382	chrY	13466092	.	C	A	99.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25383	chrY	13466097	.	G	A	43.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25384	chrY	13466101	.	G	C	847.47	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

25385	chrY	13466113	.	T	G	1314.49	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
25386	chrY	13466122	.	C	G	71.23	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
25387	chrY	13466125	.	T	A	1115.22	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
25388	chrY	13466132	.	A	G	684.24	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
25389	chrY	13466143	.	G	C	1055.61	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
25390	chrY	13466157	.	C	A	825.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25391	chrY	13466174	.	G	C	229.15	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
25392	chrY	13466190	.	C	A	422.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25393	chrY	13466198	.	A	C	650.79	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
25394	chrY	13466201	.	T	C	410.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25395	chrY	13466206	.	G	A	412.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25396	chrY	13466213	.	A	G	420.42	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25397	chrY	13466214	.	G	C	475.63	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25398	chrY	13466220	.	C	T	3883.06	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
25399	chrY	13466221	.	T	G	5473.26	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
25400	chrY	13466225	.	C	T	391	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25401	chrY	13466227	.	T	C	109.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25402	chrY	13466229	.	C	A	5655.17	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
25403	chrY	13466253	.	T	A	544.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25404	chrY	13466256	.	A	C	10526.52	PASS	AC=10;AF=0.156;AN=64;BaseQ
25405	chrY	13466269	.	T	G	1005.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25406	chrY	13466271	.	G	C,A	1375.98	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
25407	chrY	13466275	.	G	C	161.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25408	chrY	13466288	.	A	G	1460.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25409	chrY	13466289	.	G	A	1433.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25410	chrY	13466291	.	C	T	99.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25411	chrY	13466297	.	C	G	1436.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25412	chrY	13466302	.	T	G	25668.94	PASS	AC=18;AF=0.310;AN=58;BaseQ
25413	chrY	13466303	.	T	C	33.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25414	chrY	13466306	.	T	C	350.74	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25415	chrY	13466308	.	A	T	127.43	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25416	chrY	13466309	.	G	T	159.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25417	chrY	13466313	.	A	T	483.99	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25418	chrY	13466316	.	A	T	100.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25419	chrY	13466317	.	A	T	608.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25420	chrY	13466318	.	T	C	716.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25421	chrY	13466323	.	C	T	33.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25422	chrY	13466324	.	A	G	279.17	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25423	chrY	13466325	.	C	T	168.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25424	chrY	13466327	.	A	G	1209.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25425	chrY	13466328	.	T	C	157.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25426	chrY	13466329	.	G	T	242.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25427	chrY	13466330	.	C	T	35.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25428	chrY	13466332	.	A	G	3062.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25429	chrY	13466333	.	C	T	201.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25430	chrY	13466341	.	C	T	219.39	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25431	chrY	13466342	.	A	C	36.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25432	chrY	13466345	.	T	C	37.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25433	chrY	13466350	.	A	G	219.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25434	chrY	13466351	.	C	A,G	1963.50	my_snp_filter	AC=7,2;AF=0.100,0.029;AN=
25435	chrY	13466354	.	G	C,T	1802.59	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
25436	chrY	13466355	.	A	T	61.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25437	chrY	13466356	.	G	A	135.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25438	chrY	13466360	.	C	A	37.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25439	chrY	13466369	.	C	T	1400.94	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
25440	chrY	13466372	.	G	T	51.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25441	chrY	13466377	.	C	A,G	709.79	my_snp_filter	AC=9,2;AF=0.129,0.029;AN=
25442	chrY	13466378	.	T	G	242.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25443	chrY	13466380	.	C	T	116.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25444	chrY	13466383	.	A	G	946.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25445	chrY	13466384	.	G	T	112.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25446	chrY	13466386	.	T	A	1024.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25447	chrY	13466389	.	G	T	1028.55	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25448	chrY	13466390	.	T	C	65.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25449	chrY	13466392	.	A	T	1059.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25450	chrY	13466393	.	C	A	1172.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25451	chrY	13466397	.	G	A	658.84	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
25452	chrY	13466398	.	C	T	102.88	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25453	chrY	13466399	.	C	T	334.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25454	chrY	13466406	.	G	A	58.24	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25455	chrY	13466408	.	C	T	33.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25456	chrY	13466409	.	A	T	421.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25457	chrY	13466410	.	G	T	532.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25458	chrY	13466415	.	T	A	704.77	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25459	chrY	13466419	.	C	G	117.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25460	chrY	13466420	.	A	C	455.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ

25461	chrY	13466421	.	A	G,C	849.38	my_snp_filter	AC=5,2;AF=0.071,0.029;AN=
25462	chrY	13466423	.	A	T,G,C	3959.31	PASS	AC=3,6,1;AF=0.043,0.086,0.014;AN=
25463	chrY	13466425	.	T	C,*	306.12	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
25464	chrY	13466426	.	C	T	136.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25465	chrY	13466428	.	C	A	1452.34	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25466	chrY	13466430	.	T	A	72.24	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25467	chrY	13466433	.	C	A	56.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25468	chrY	13466435	.	T	A	3684.17	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
25469	chrY	13466436	.	G	A,T,C	3988.26	PASS	AC=8,1,1;AF=0.114,0.014,0.014;AN=
25470	chrY	13466439	.	T	G	325.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25471	chrY	13466440	.	G	A	87.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25472	chrY	13466444	.	A	T	54.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25473	chrY	13466445	.	G	A,C	893.80	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQ
25474	chrY	13466447	.	G	A	381.80	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25475	chrY	13466448	.	C	G	413.43	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25476	chrY	13466452	.	G	A,T	1972.70	PASS	AC=3,2;AF=0.045,0.030;AN=66;BaseQ
25477	chrY	13466455	.	A	G	147.49	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25478	chrY	13466457	.	G	A	194.66	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
25479	chrY	13466459	.	C	T	49.58	PASS	AC=2;AF=0.030;AN=66;DP=4968;FS=4.
25480	chrY	13466460	.	A	T	275.40	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25481	chrY	13466461	.	A	C,T	19750.50	PASS	AC=10,2;AF=0.208,0.042;AN=
25482	chrY	13466463	.	A	C	49.63	PASS	AC=2;AF=0.029;AN=68;DP=4948;FS=4.
25483	chrY	13466464	.	T	A	592.24	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
25484	chrY	13466466	.	C	T,A	4680	PASS	AC=9,1;AF=0.145,0.016;AN=62;BaseQ
25485	chrY	13466467	.	C	A	612.24	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25486	chrY	13466468	.	C	G	53.23	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25487	chrY	13466469	.	C	T	1456.60	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
25488	chrY	13466470	.	C	A	645.42	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
25489	chrY	13466473	.	T	C	1135.01	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25490	chrY	13466476	.	G	A	179.91	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
25491	chrY	13466481	.	G	A	306.75	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
25492	chrY	13466482	.	G	C	26802	PASS	AC=24;AF=0.667;AN=36;BaseQRankSum=
25493	chrY	13466483	.	C	T	502.71	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
25494	chrY	13466488	.	C	T	1110.62	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25495	chrY	13466491	.	G	T,A	1806.47	my_snp_filter	AC=3,5;AF=0.045,0.076;AN=
25496	chrY	13466493	.	G	A	124.60	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25497	chrY	13466495	.	T	G	384.27	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25498	chrY	13466496	.	A	C	226.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25499	chrY	13466502	.	C	T	81.57	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25500	chrY	13466503	.	C	A	375.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25501	chrY	13466505	.	G	C	500.58	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25502	chrY	13466507	.	G	A	1220.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25503	chrY	13466513	.	A	T	720.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25504	chrY	13466514	.	G	T	370.43	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25505	chrY	13466516	.	G	T,A	1394.63	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
25506	chrY	13466521	.	G	A	195.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25507	chrY	13466522	.	A	G	78.22	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25508	chrY	13466530	.	C	G	66.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25509	chrY	13466531	.	A	T	81.81	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
25510	chrY	13466534	.	C	A,*	1356.84	PASS	AC=4,1;AF=0.063,0.016;AN=64;BaseQ
25511	chrY	13466538	.	C	G,T	1233.65	PASS	AC=2,1;AF=0.030,0.015;AN=66;BaseQ
25512	chrY	13466543	.	C	G	14565.31	PASS	AC=20;AF=0.526;AN=38;BaseQ
25513	chrY	13466545	.	C	T	330.42	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
25514	chrY	13466547	.	G	T	150.43	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25515	chrY	13466551	.	C	G,A	1266.89	PASS	AC=1,1;AF=0.015,0.015;AN=66;BaseQ
25516	chrY	13466554	.	G	C	212.99	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25517	chrY	13466556	.	C	G	100.01	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
25518	chrY	13466560	.	A	G	564.20	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
25519	chrY	13466570	.	G	A	203.15	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
25520	chrY	13466571	.	G	C	2110.07	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
25521	chrY	13466587	.	G	C	133.73	my_snp_filter	AC=2;AF=0.032;AN=62;DP=26
25522	chrY	13466591	.	C	G	62.02	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
25523	chrY	13466603	.	T	C	508.60	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
25524	chrY	13466605	.	T	C	3971.89	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
25525	chrY	13466608	.	G	A	275.46	my_snp_filter	AC=2;AF=0.045;AN=44;DP=26
25526	chrY	13466609	.	T	C	214.59	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25527	chrY	13466612	.	C	A	256.60	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
25528	chrY	13466621	.	T	C	268.08	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25529	chrY	13466624	.	G	C	1929.93	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
25530	chrY	13466626	.	A	G	214.65	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
25531	chrY	13466627	.	T	A	1043.71	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
25532	chrY	13466638	.	C	A	260.36	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
25533	chrY	13466649	.	G	A	611.51	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
25534	chrY	13466671	.	C	T	516.43	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
25535	chrY	13466680	.	T	G	566.57	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
25536	chrY	13466712	.	G	T	114.67	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=

25537	chrY	13466720	.	A	C	427.01	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
25538	chrY	13466721	.	G	T	168.79	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
25539	chrY	13466742	.	C	A	195.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25540	chrY	13466745	.	G	T	1171.81	PASS	AC=8;AF=0.500;AN=16;BaseQRankSum=
25541	chrY	13466783	.	G	A	321.67	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25542	chrY	13466793	.	C	G	2689.18	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
25543	chrY	13466796	.	A	T	362.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25544	chrY	13466797	.	T	C	169.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25545	chrY	13466803	.	T	A	77.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25546	chrY	13466806	.	A	G	168.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25547	chrY	13466809	.	C	T	7840.96	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
25548	chrY	13466812	.	C	A	117.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25549	chrY	13466813	.	C	T,A	376.72	PASS	AC=2,2;AF=0.029,0.029;AN=68;BaseQ
25550	chrY	13466816	.	T	A	150.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25551	chrY	13466818	.	G	A	350.25	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
25552	chrY	13466819	.	A	T,G	23420.26	PASS	AC=17,18;AF=0.386,0.409;A
25553	chrY	13466821	.	A	G	1369.95	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25554	chrY	13466831	.	C	A	114.46	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25555	chrY	13466849	.	G	T,A	12557.51	PASS	AC=15,1;AF=0.221,0.015;AN
25556	chrY	13466850	.	G	A	194.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25557	chrY	13466857	.	G	T,C	1462.33	my_snp_filter	AC=10,2;AF=0.143,0.029;AN
25558	chrY	13466859	.	G	A	43.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25559	chrY	13466863	.	T	A	477.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25560	chrY	13466865	.	C	A	38571.46	PASS	AC=30;AF=0.484;AN=62;Base
25561	chrY	13466871	.	G	T	21579.85	PASS	AC=23;AF=0.338;AN=68;Base
25562	chrY	13466876	.	T	G	62.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25563	chrY	13466879	.	C	A,T	218.92	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
25564	chrY	13466882	.	T	C	72.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25565	chrY	13466885	.	A	T	54.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25566	chrY	13466886	.	G	A	50.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25567	chrY	13466893	.	C	G	95.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25568	chrY	13466895	.	T	C	449.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25569	chrY	13466899	.	C	A	327.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25570	chrY	13466904	.	G	T	220.49	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25571	chrY	13466905	.	T	C	81.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25572	chrY	13466908	.	C	A	36.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25573	chrY	13466917	.	G	A	762.12	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
25574	chrY	13466920	.	G	A	35.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25575	chrY	13466924	.	A	T	459.96	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
25576	chrY	13466925	.	G	C	209.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25577	chrY	13466928	.	A	C	8415.58	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum=
25578	chrY	13466930	.	G	C	481.50	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
25579	chrY	13466967	.	A	T	33.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25580	chrY	13466968	.	C	G	40.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25581	chrY	13466970	.	A	T	234.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25582	chrY	13466983	.	A	C	724.97	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
25583	chrY	13466989	.	G	C	59.79	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
25584	chrY	13466990	.	G	A	441.66	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
25585	chrY	13467057	.	T	G	32.88	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
25586	chrY	13467063	.	G	T	74.06	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25587	chrY	13467068	.	T	A	113.07	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25588	chrY	13467074	.	A	T	113.29	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25589	chrY	13467113	.	C	A	212.99	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
25590	chrY	13467120	.	C	A	213.83	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25591	chrY	13467139	.	A	G	115.87	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
25592	chrY	13467146	.	C	A	77.52	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25593	chrY	13467253	.	T	A	1695.90	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
25594	chrY	13467288	.	C	T	5931	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
25595	chrY	13467301	.	A	G	61.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25596	chrY	13467305	.	C	T	4583.90	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
25597	chrY	13467309	.	G	A	349.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25598	chrY	13467314	.	A	G,C	1090.92	PASS	AC=3,1;AF=0.044,0.015;AN=68;BaseQ
25599	chrY	13467322	.	T	C	361.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25600	chrY	13467326	.	C	T	3809.12	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
25601	chrY	13467328	.	A	C	1494.99	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
25602	chrY	13467331	.	T	C	4671.72	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
25603	chrY	13467332	.	G	C,A	3960.59	PASS	AC=6,2;AF=0.125,0.042;AN=48;BaseQ
25604	chrY	13467337	.	G	T	339.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25605	chrY	13467340	.	C	A	300.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25606	chrY	13467363	.	C	A	412.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25607	chrY	13467380	.	C	A	2188.73	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
25608	chrY	13467386	.	C	T	172.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25609	chrY	13467390	.	A	T	1359.47	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
25610	chrY	13467393	.	C	G	758.91	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25611	chrY	13467396	.	A	G	97.11	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25612	chrY	13467399	.	T	C	125.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

25613	chrY	13467408	.	T	C	459.28	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
25614	chrY	13467410	.	G	T	140.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25615	chrY	13467429	.	C	T	146.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25616	chrY	13467440	.	G	T	94.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25617	chrY	13467441	.	C	A	93.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25618	chrY	13467450	.	G	T	298.33	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
25619	chrY	13467456	.	A	C	604.95	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
25620	chrY	13467463	.	A	C	508.63	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
25621	chrY	13467468	.	G	C	232.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25622	chrY	13467473	.	G	T	40.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25623	chrY	13467489	.	A	C	213.19	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25624	chrY	13467494	.	T	C	256.66	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25625	chrY	13467495	.	C	A	235.47	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25626	chrY	13467497	.	C	G	234.82	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25627	chrY	13467511	.	A	C	238.41	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
25628	chrY	13467512	.	G	A	270.21	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
25629	chrY	13467559	.	A	C	233.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25630	chrY	13467565	.	T	C	264.86	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
25631	chrY	13467579	.	C	T	153.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25632	chrY	13467588	.	G	T	31.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25633	chrY	13467590	.	G	C	82.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25634	chrY	13467593	.	G	A	194.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25635	chrY	13467598	.	A	T	51.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25636	chrY	13467600	.	C	A,T	151.17	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
25637	chrY	13467601	.	T	A	165.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25638	chrY	13467602	.	T	G	497.06	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
25639	chrY	13467607	.	A	G	77.89	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
25640	chrY	13467614	.	A	C	431.38	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
25641	chrY	13467703	.	A	C	63.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25642	chrY	13467709	.	C	G	63.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25643	chrY	13467725	.	A	G	60.15	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25644	chrY	13467743	.	C	G	111	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
25645	chrY	13467745	.	T	C	107.44	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25646	chrY	13467772	.	A	C	108.72	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
25647	chrY	13467809	.	G	A	261.16	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
25648	chrY	13467810	.	G	T	217.96	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25649	chrY	13467836	.	G	A	784.69	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
25650	chrY	13467887	.	G	T,*	2802.49	my_snp_filter	AC=4,11;AF=0.057,0.157;AN=
25651	chrY	13467894	.	G	C,*	2692.10	my_snp_filter	AC=5,9;AF=0.074,0.132;AN=
25652	chrY	13467906	.	T	A,*	2448.76	my_snp_filter	AC=1,9;AF=0.015,0.136;AN=
25653	chrY	13467907	.	T	A,*	2340.32	my_snp_filter	AC=2,8;AF=0.030,0.121;AN=
25654	chrY	13467920	.	T	C,*	2499.89	PASS	AC=4,7;AF=0.080,0.140;AN=50;BaseQ
25655	chrY	13467921	.	G	T,*	2605.13	my_snp_filter	AC=1,10;AF=0.017,0.172;AN=
25656	chrY	13467946	.	G	A	391.52	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
25657	chrY	13467947	.	G	T	122.77	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25658	chrY	13467989	.	C	A	89548.99	PASS	AC=10;AF=0.143;AN=70;BaseQ
25659	chrY	13467997	.	A	C	67.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25660	chrY	13468003	.	A	C	13622.27	PASS	AC=6;AF=0.086;AN=70;BaseQ
25661	chrY	13468031	.	A	G	6687.65	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25662	chrY	13468040	.	A	G	39.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25663	chrY	13468042	.	C	T	165.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25664	chrY	13468047	.	G	T	270698.50	PASS	AC=9;AF=0.141;AN=64;BaseQ
25665	chrY	13468048	.	T	C	45.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25666	chrY	13468053	.	A	C	269195.68	PASS	AC=8;AF=0.118;AN=68;BaseQ
25667	chrY	13468060	.	G	A,T	279422.71	PASS	AC=15,3;AF=0.469,0.094;AN=
25668	chrY	13468065	.	A	T	251034.39	PASS	AC=8;AF=0.118;AN=68;BaseQ
25669	chrY	13468070	.	T	C	280971.56	PASS	AC=14;AF=0.241;AN=58;BaseQ
25670	chrY	13468080	.	G	C	64.52	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25671	chrY	13468082	.	T	G	261691.75	PASS	AC=13;AF=0.250;AN=52;BaseQ
25672	chrY	13468114	.	G	A	1061.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25673	chrY	13468117	.	G	C	44629.13	PASS	AC=4;AF=0.069;AN=58;BaseQ
25674	chrY	13468130	.	C	A	284.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25675	chrY	13468134	.	A	G	27243.48	PASS	AC=4;AF=0.067;AN=60;BaseQ
25676	chrY	13468141	.	A	T	35949.07	PASS	AC=20;AF=0.400;AN=50;BaseQ
25677	chrY	13468144	.	G	C,T	29580.07	PASS	AC=17,2;AF=0.354,0.042;AN=
25678	chrY	13468145	.	T	C	99.51	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
25679	chrY	13468148	.	G	A	852.61	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
25680	chrY	13468149	.	T	G,A	20782.40	PASS	AC=8,2;AF=0.222,0.056;AN=
25681	chrY	13468151	.	G	A	6797.01	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
25682	chrY	13468154	.	C	A	630.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25683	chrY	13468157	.	T	A	1249.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25684	chrY	13468159	.	G	A	4008.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25685	chrY	13468160	.	C	A,T,G	1414.88	PASS	AC=2,1,1;AF=0.029,0.014,0.014;AN=
25686	chrY	13468164	.	A	G	400.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25687	chrY	13468171	.	A	T	72.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25688	chrY	13468172	.	C	A	454.10	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

25689	chrY	13468174	.	A	G	1063.63	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25690	chrY	13468177	.	A	C,T	24805.42	PASS	AC=11,3;AF=0.393,0.107;AN
25691	chrY	13468178	.	C	A	3731.20	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
25692	chrY	13468184	.	A	C	2163.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25693	chrY	13468188	.	A	T	68.35	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25694	chrY	13468192	.	C	G	31841.10	PASS	AC=3;AF=0.065;AN=46;BaseQ
25695	chrY	13468193	.	T	G,*	4436.05	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
25696	chrY	13468194	.	T	A	2617.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25697	chrY	13468195	.	A	T	49.72	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25698	chrY	13468196	.	T	C	33455.91	PASS	AC=5;AF=0.100;AN=50;BaseQ
25699	chrY	13468202	.	A	C	4001.56	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25700	chrY	13468206	.	A	G	489.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25701	chrY	13468208	.	A	G	4618.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25702	chrY	13468209	.	T	A	61.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25703	chrY	13468212	.	C	T	3065.63	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25704	chrY	13468216	.	G	T	164.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25705	chrY	13468219	.	G	T	8087.69	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25706	chrY	13468221	.	T	C	37.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25707	chrY	13468222	.	C	T	54.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25708	chrY	13468230	.	A	G	113.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25709	chrY	13468232	.	A	G	3155.43	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
25710	chrY	13468234	.	A	T	86942.08	PASS	AC=17;AF=0.315;AN=54;Base
25711	chrY	13468236	.	G	C	38506.87	PASS	AC=14;AF=0.200;AN=70;Base
25712	chrY	13468242	.	A	G	267.24	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
25713	chrY	13468245	.	C	A	173.67	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25714	chrY	13468257	.	G	C	266.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25715	chrY	13468262	.	A	G	40353.72	PASS	AC=15;AF=0.214;AN=70;Base
25716	chrY	13468263	.	A	G	5649.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25717	chrY	13468266	.	C	G	158220.76	PASS	AC=25;AF=0.431;AN=58;Base
25718	chrY	13468268	.	A	G	437.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25719	chrY	13468270	.	A	T	104.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25720	chrY	13468273	.	C	T	158487.14	PASS	AC=18;AF=0.321;AN=56;Base
25721	chrY	13468274	.	C	T,A	676.50	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
25722	chrY	13468275	.	A	G	140194.46	PASS	AC=32;AF=0.500;AN=64;Base
25723	chrY	13468276	.	T	C	159165.01	PASS	AC=18;AF=0.346;AN=52;Base
25724	chrY	13468278	.	A	C	253.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25725	chrY	13468281	.	T	A	123.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25726	chrY	13468283	.	G	T	567.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25727	chrY	13468284	.	G	A	46.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25728	chrY	13468287	.	A	G	84.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25729	chrY	13468291	.	G	A	153415.99	PASS	AC=18;AF=0.310;AN=58;Base
25730	chrY	13468294	.	C	T	33.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25731	chrY	13468295	.	A	G	248.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25732	chrY	13468296	.	G	A	337.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25733	chrY	13468299	.	A	T	103.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25734	chrY	13468300	.	T	C	30.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25735	chrY	13468304	.	T	C	284.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25736	chrY	13468314	.	C	A,T	497.81	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
25737	chrY	13468318	.	T	C	42.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25738	chrY	13468326	.	T	G	303417.68	PASS	AC=37;AF=0.740;AN=50;Base
25739	chrY	13468327	.	C	G	189.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25740	chrY	13468329	.	T	G	45.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25741	chrY	13468331	.	G	C	364.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25742	chrY	13468340	.	C	T	22149.60	PASS	AC=3;AF=0.043;AN=70;BaseQ
25743	chrY	13468341	.	C	T	111.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25744	chrY	13468361	.	G	A	87841.84	PASS	AC=9;AF=0.173;AN=52;BaseQ
25745	chrY	13468365	.	A	G	93060.39	PASS	AC=13;AF=0.241;AN=54;Base
25746	chrY	13468366	.	G	A	849.15	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
25747	chrY	13468375	.	C	A	13759.90	PASS	AC=2;AF=0.029;AN=70;BaseQ
25748	chrY	13468392	.	G	C	3223.06	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
25749	chrY	13468395	.	C	T	6183.56	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
25750	chrY	13468398	.	G	A	24040.30	PASS	AC=13;AF=0.433;AN=30;Base
25751	chrY	13468401	.	G	C	20073.59	PASS	AC=12;AF=0.429;AN=28;Base
25752	chrY	13468405	.	A	T	1375.38	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
25753	chrY	13468417	.	C	T	18055.48	my_snp_filter	AC=9;AF=0.375;AN=
25754	chrY	13468420	.	G	A	16596.59	PASS	AC=9;AF=0.409;AN=22;BaseQ
25755	chrY	13468425	.	C	T	5476.34	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
25756	chrY	13468434	.	G	A	4859.44	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
25757	chrY	13468449	.	C	T	178.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25758	chrY	13468450	.	A	T	5032.42	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
25759	chrY	13468451	.	C	T	7073.13	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
25760	chrY	13468452	.	T	C	6320.42	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
25761	chrY	13468454	.	T	C	200.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25762	chrY	13468457	.	G	A	4797.57	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25763	chrY	13468458	.	C	A,T	534.20	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
25764	chrY	13468463	.	C	T,A	7734.96	PASS	AC=7,2;AF=0.140,0.040;AN=50;BaseQ

25765	chrY	13468464	.	C	T	330.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25766	chrY	13468467	.	G	A	5707.61	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
25767	chrY	13468469	.	C	A	425.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25768	chrY	13468472	.	C	G	18883.81		my_snp_filter AC=9;AF=0.409;AN=
25769	chrY	13468473	.	G	A,T	13974.34		PASS AC=8,6;AF=0.235,0.176;AN=
25770	chrY	13468474	.	G	T	339.15	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25771	chrY	13468482	.	A	T	246.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25772	chrY	13468486	.	A	G	224.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25773	chrY	13468489	.	T	A	3763.23	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
25774	chrY	13468491	.	A	G,T	1361.53	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
25775	chrY	13468495	.	G	A	81.91	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25776	chrY	13468498	.	C	T	48.34	PASS	AC=2;AF=0.029;AN=68;DP=11122;FS=0
25777	chrY	13468499	.	A	T	290.69	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25778	chrY	13468501	.	A	G	106.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25779	chrY	13468504	.	T	C	2922.37	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
25780	chrY	13468510	.	G	A	41.73	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
25781	chrY	13468517	.	C	G	300.34	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
25782	chrY	13468526	.	C	T	46.70	PASS	AC=2;AF=0.030;AN=66;DP=11013;FS=0
25783	chrY	13468528	.	G	A	154.54	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25784	chrY	13468529	.	A	G	100.03	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25785	chrY	13468532	.	T	C	10940.78		my_snp_filter AC=19;AF=0.317;AN=
25786	chrY	13468537	.	C	T	136.03	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
25787	chrY	13468538	.	A	G	75.39	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
25788	chrY	13468541	.	T	C	126.80	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
25789	chrY	13468545	.	A	G	165.08	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25790	chrY	13468546	.	C	T	88.90	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25791	chrY	13468566	.	C	G	79.05	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25792	chrY	13468569	.	G	T	188.84	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
25793	chrY	13468575	.	G	A	121.25	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
25794	chrY	13468582	.	A	T	55.04	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
25795	chrY	13468589	.	T	A	145.13	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
25796	chrY	13468597	.	A	G	220.66	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
25797	chrY	13468672	.	A	G	420.72	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
25798	chrY	13468684	.	T	A	375.69	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25799	chrY	13468707	.	G	A	882.90	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
25800	chrY	13468722	.	A	G	105.13	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25801	chrY	13468724	.	G	T	53.11	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
25802	chrY	13468728	.	A	C	1563.96	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
25803	chrY	13468730	.	G	A	1341.81	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
25804	chrY	13468732	.	A	T	59.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25805	chrY	13468738	.	A	G	2294.25	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
25806	chrY	13468739	.	A	G	1469.94	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
25807	chrY	13468743	.	A	T	1717.44	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25808	chrY	13468750	.	A	T	330.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25809	chrY	13468752	.	C	T	163.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25810	chrY	13468766	.	T	G	1272.20	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25811	chrY	13468777	.	T	A	3108.08	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
25812	chrY	13468786	.	G	T	67.53	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
25813	chrY	13468790	.	C	A	220.84	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
25814	chrY	13468804	.	C	G	51.80	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25815	chrY	13468812	.	G	A,C	211.32	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
25816	chrY	13468814	.	A	G	10672.05		PASS AC=20;AF=0.357;AN=56;Base
25817	chrY	13468823	.	C	A	184.37	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
25818	chrY	13468828	.	G	A	125.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25819	chrY	13468829	.	G	A	37.30	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25820	chrY	13468835	.	G	T	8862.56		my_snp_filter AC=9;AF=0.150;AN=60;BaseQ
25821	chrY	13468837	.	C	A	181.15	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25822	chrY	13468847	.	T	C	284.09	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
25823	chrY	13468850	.	C	G	41.89	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25824	chrY	13468858	.	C	T	149.04	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
25825	chrY	13468860	.	G	A	219.70	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25826	chrY	13468869	.	G	A	219.20	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25827	chrY	13468876	.	C	G	49.21	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
25828	chrY	13468878	.	A	G	45.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25829	chrY	13468885	.	C	A	1056.04	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
25830	chrY	13468888	.	C	T	4285.02	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
25831	chrY	13468890	.	C	A	479.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25832	chrY	13468891	.	C	G	212.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25833	chrY	13468894	.	G	A	209.13	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
25834	chrY	13468899	.	A	G	476.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25835	chrY	13468908	.	A	T	43.53	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25836	chrY	13468909	.	G	A	109.47	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
25837	chrY	13468911	.	T	G	167.14	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
25838	chrY	13468919	.	A	G	398.68	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25839	chrY	13468922	.	G	T	407.20	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25840	chrY	13468923	.	C	A,T	583.34	PASS	AC=1,1;AF=0.017,0.017;AN=58;BaseQ

25841	chrY	13468925	.	T	C	4372.02	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
25842	chrY	13468929	.	T	C	359.59	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25843	chrY	13468934	.	A	C	283.42	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
25844	chrY	13468947	.	T	G	285.19	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
25845	chrY	13468948	.	T	A	3806.68	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
25846	chrY	13468953	.	T	C	575.93	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
25847	chrY	13468958	.	C	A	374.49	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
25848	chrY	13468962	.	G	A	451.51	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
25849	chrY	13468963	.	A	G	3744.51	PASS	AC=12;AF=0.400;AN=30;BaseQRankSum=
25850	chrY	13468967	.	T	C	132.15	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
25851	chrY	13468981	.	T	A	2420.66	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
25852	chrY	13468983	.	T	A	2073.50	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
25853	chrY	13468989	.	T	G	52.44	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
25854	chrY	13468992	.	C	T	1688.75	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
25855	chrY	13468995	.	T	C	1789.26	PASS	AC=3;AF=0.214;AN=14;BaseQRankSum=
25856	chrY	13469008	.	C	G	1771.39	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
25857	chrY	13469017	.	A	T	1887.10	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
25858	chrY	13469023	.	G	A	2071.93	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
25859	chrY	13469034	.	G	T	1687.67	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
25860	chrY	13469039	.	G	A	210.17	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
25861	chrY	13469046	.	C	T,G	2588.29	PASS	AC=1,4;AF=0.038,0.154;AN=26;BaseQ
25862	chrY	13469058	.	G	A	1863.32	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
25863	chrY	13469066	.	T	A	1259.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25864	chrY	13469074	.	G	C	33.32	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25865	chrY	13469076	.	C	T	889.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25866	chrY	13469097	.	T	G	257.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25867	chrY	13469107	.	G	A	244.73	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25868	chrY	13469115	.	A	G	54.97	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25869	chrY	13469116	.	T	A	39.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25870	chrY	13469128	.	C	A	86.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25871	chrY	13469130	.	C	A	55.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25872	chrY	13469131	.	C	T	78.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25873	chrY	13469143	.	C	A	190.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25874	chrY	13469145	.	T	C	109.50	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25875	chrY	13469149	.	C	A,G	483.83	my_snp_filter	AC=5,5;AF=0.071,0.071;AN=
25876	chrY	13469153	.	A	G	224.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25877	chrY	13469155	.	T	A	54.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25878	chrY	13469157	.	A	T	57.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25879	chrY	13469160	.	T	A	252.42	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
25880	chrY	13469167	.	G	T	79.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25881	chrY	13469177	.	G	A	112.61	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25882	chrY	13469179	.	A	G	310.66	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
25883	chrY	13469182	.	G	T	158.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25884	chrY	13469184	.	T	C	85.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25885	chrY	13469185	.	A	G	187.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25886	chrY	13469187	.	G	T	451.17	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
25887	chrY	13469192	.	A	T	173.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25888	chrY	13469198	.	T	C	2479.99	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
25889	chrY	13469216	.	T	A	380.55	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
25890	chrY	13469217	.	T	C	425.72	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
25891	chrY	13469218	.	G	A	419.30	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
25892	chrY	13469222	.	T	G	244.98	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
25893	chrY	13469234	.	T	G	58.94	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
25894	chrY	13469249	.	C	A	59.29	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
25895	chrY	13469259	.	C	A	86.26	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
25896	chrY	13469276	.	G	C	43.37	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25897	chrY	13469288	.	T	G	1025.70	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
25898	chrY	13469304	.	G	A	245.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25899	chrY	13469318	.	G	C	229.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25900	chrY	13469329	.	A	G	292.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25901	chrY	13469338	.	A	C,T	14010.07	PASS	AC=16,2;AF=0.364,0.045;AN=
25902	chrY	13469342	.	C	G,T	532.43	PASS	AC=1,1;AF=0.016,0.016;AN=64;BaseQ
25903	chrY	13469347	.	T	C	12589.64	PASS	AC=16;AF=0.296;AN=54;BaseQ
25904	chrY	13469348	.	G	A	1820.81	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
25905	chrY	13469350	.	A	C	328.97	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25906	chrY	13469353	.	C	T	207.37	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25907	chrY	13469357	.	A	T	1339.39	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
25908	chrY	13469361	.	A	G	103.72	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25909	chrY	13469362	.	C	T	229.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25910	chrY	13469366	.	A	T	127.68	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
25911	chrY	13469367	.	C	T	276.10	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
25912	chrY	13469368	.	T	C	10878.91	PASS	AC=15;AF=0.395;AN=38;BaseQ
25913	chrY	13469369	.	G	T	10247.29	PASS	AC=14;AF=0.412;AN=34;BaseQ
25914	chrY	13469370	.	A	T	31.30	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
25915	chrY	13469371	.	G	C	291.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
25916	chrY	13469372	.	A	G	245.44	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ

25917	chrY	13469379	.	G	T	194.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25918	chrY	13469381	.	G	T	111.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25919	chrY	13469386	.	G	A	305.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25920	chrY	13469396	.	A	T	290.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25921	chrY	13469399	.	G	A	188.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25922	chrY	13469407	.	T	C	245.36	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
25923	chrY	13469411	.	C	G	296.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25924	chrY	13469413	.	G	T	132.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25925	chrY	13469420	.	G	C	60.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25926	chrY	13469422	.	C	A	146.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
25927	chrY	13469427	.	G	C	50.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25928	chrY	13469437	.	C	G	139.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25929	chrY	13469438	.	T	A	111.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25930	chrY	13469439	.	C	G	805.61	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
25931	chrY	13469440	.	A	G	2503.15	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
25932	chrY	13469450	.	G	A	232.40	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25933	chrY	13469455	.	G	A	127.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25934	chrY	13469463	.	A	T	37.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
25935	chrY	13469473	.	G	A	809.06	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
25936	chrY	13469476	.	G	T	126.10	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
25937	chrY	13469478	.	A	C,G	1107.77	PASS	AC=8,2;AF=0.154,0.038;AN=52;BaseQ
25938	chrY	13469481	.	A	G	73.35	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
25939	chrY	13469483	.	T	C	899.10	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
25940	chrY	13469487	.	A	G	587.41	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
25941	chrY	13469488	.	A	T	509.86	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
25942	chrY	13469492	.	G	A	132.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25943	chrY	13469496	.	T	A	135.21	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
25944	chrY	13469497	.	A	G	91.85	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
25945	chrY	13469506	.	A	G	203.98	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
25946	chrY	13469542	.	C	T	233.72	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
25947	chrY	13469543	.	A	G	4014.75	PASS	AC=32;AF=0.500;AN=64;BaseQRankSum=
25948	chrY	13469557	.	C	T	1221.39	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
25949	chrY	13469571	.	T	C	2149.14	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
25950	chrY	13469577	.	T	A	1109.09	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
25951	chrY	13469578	.	T	G	2131.95	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
25952	chrY	13469581	.	C	G	1053.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25953	chrY	13469621	.	T	A	2075.66	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
25954	chrY	13469642	.	G	A	67.33	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25955	chrY	13469675	.	C	G	603.25	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
25956	chrY	13469690	.	A	T	32.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
25957	chrY	13469697	.	A	T	1048.02	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
25958	chrY	13469698	.	T	G	2939.72	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
25959	chrY	13469703	.	A	T,G	498.30	PASS	AC=1,3;AF=0.015,0.045;AN=66;BaseQ
25960	chrY	13469706	.	C	A	1753.18	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
25961	chrY	13469707	.	G	C	1287.80	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
25962	chrY	13469708	.	C	A	87.90	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25963	chrY	13469709	.	T	A	64.05	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
25964	chrY	13469714	.	A	G	542.07	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
25965	chrY	13469730	.	C	T	332.72	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
25966	chrY	13469748	.	G	T	66.22	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25967	chrY	13469749	.	C	T	71.65	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
25968	chrY	13469755	.	A	C	206.28	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25969	chrY	13469764	.	A	T	71.75	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25970	chrY	13469765	.	T	G	215.17	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
25971	chrY	13469768	.	T	A	346.70	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
25972	chrY	13469773	.	A	C	73.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25973	chrY	13469780	.	A	T	646.49	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
25974	chrY	13469789	.	T	C	342.99	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
25975	chrY	13469792	.	A	C	308.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
25976	chrY	13469825	.	T	C	1648.13	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25977	chrY	13469829	.	C	T	282.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25978	chrY	13469835	.	C	T	1694.62	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25979	chrY	13469836	.	C	T	1702.05	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
25980	chrY	13469838	.	A	G	4968.75	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
25981	chrY	13469842	.	A	G	118.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
25982	chrY	13469851	.	G	C	1708.47	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
25983	chrY	13469855	.	G	T	1717.46	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
25984	chrY	13469858	.	G	T	218.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25985	chrY	13469860	.	G	A	7035.64	my_snp_filter	AC=27;AF=0.422;AN=64;BaseQ
25986	chrY	13469865	.	T	C,A	2984.49	PASS	AC=20,2;AF=0.303,0.030;AN=66;BaseQ
25987	chrY	13469867	.	G	A	446.01	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
25988	chrY	13469871	.	G	T	1718.29	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
25989	chrY	13469872	.	G	T	403.18	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25990	chrY	13469875	.	C	A	191.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
25991	chrY	13469886	.	C	T,A	615.31	PASS	AC=3,4;AF=0.044,0.059;AN=68;BaseQ
25992	chrY	13469892	.	A	C	55.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

25993	chrY	13469894	.	T	G	420.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
25994	chrY	13469897	.	G	C,A	5877.22	PASS	AC=20,2;AF=0.345,0.034;AN=58;Base
25995	chrY	13469898	.	A	C	6290.85	PASS	AC=22;AF=0.379;AN=58;BaseQRankSum=
25996	chrY	13469899	.	A	T	136.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
25997	chrY	13469902	.	C	A	220.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
25998	chrY	13469903	.	C	G,T	381.44	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQ
25999	chrY	13469904	.	G	T	495.06	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26000	chrY	13469905	.	G	C	138.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26001	chrY	13469906	.	C	A	134.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26002	chrY	13469908	.	A	T	65.10	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26003	chrY	13469910	.	A	T	150.07	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26004	chrY	13469912	.	T	C	143.61	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
26005	chrY	13469914	.	C	A	222.66	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
26006	chrY	13469915	.	A	C	39.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26007	chrY	13469918	.	C	A	1354.66	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
26008	chrY	13469931	.	T	C	2171.37	PASS	AC=10;AF=0.250;AN=40;BaseQRankSum=
26009	chrY	13469933	.	A	C	5167.17	PASS	AC=15;AF=0.395;AN=38;BaseQRankSum=
26010	chrY	13469938	.	G	A	331.41	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26011	chrY	13469942	.	A	T	71.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26012	chrY	13469943	.	T	G	73.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26013	chrY	13469945	.	C	T	476.41	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26014	chrY	13469946	.	A	T	246.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26015	chrY	13469947	.	T	A,G	261.52	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
26016	chrY	13469948	.	C	A	1619.61	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
26017	chrY	13469949	.	T	G,A	5371.69	PASS	AC=15,1;AF=0.417,0.028;AN=36;Base
26018	chrY	13469953	.	G	T	2196.57	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26019	chrY	13469954	.	G	T	722.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26020	chrY	13469956	.	C	T	343.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26021	chrY	13469958	.	T	A	1235.87	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26022	chrY	13469964	.	C	T	2242.56	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
26023	chrY	13469965	.	A	T,G	6921.92	PASS	AC=7,10;AF=0.175,0.250;AN=40;Base
26024	chrY	13469966	.	G	T	373.98	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
26025	chrY	13469967	.	G	T	59.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26026	chrY	13469969	.	A	G	534.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26027	chrY	13469970	.	G	C	372.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26028	chrY	13469971	.	G	A	1546.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26029	chrY	13469972	.	C	T	1034.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26030	chrY	13469978	.	C	G,A	4252.08	PASS	AC=7,2;AF=0.100,0.029;AN=70;BaseQ
26031	chrY	13469981	.	T	G	469.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26032	chrY	13469982	.	C	G	261.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26033	chrY	13469983	.	T	C	51.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26034	chrY	13469985	.	G	T,*	679.92	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
26035	chrY	13469986	.	T	G	12547.14	PASS	AC=30;AF=0.500;AN=60;BaseQ
26036	chrY	13469987	.	G	A,T	991.61	PASS	AC=5,2;AF=0.074,0.029;AN=68;BaseQ
26037	chrY	13469991	.	C	G	2800.40	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26038	chrY	13469992	.	G	A	888.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26039	chrY	13469993	.	C	T	73.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26040	chrY	13469995	.	C	G,T	950.68	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
26041	chrY	13469996	.	T	A	51.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26042	chrY	13469997	.	G	A,T	1231.79	PASS	AC=4,4;AF=0.057,0.057;AN=70;BaseQ
26043	chrY	13469998	.	G	T	291.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26044	chrY	13470002	.	C	T	634.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26045	chrY	13470004	.	T	C	162.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26046	chrY	13470006	.	C	T,G	4203.81	PASS	AC=16,3;AF=0.229,0.043;AN=70;Base
26047	chrY	13470007	.	G	A	226.04	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26048	chrY	13470009	.	G	A	62.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26049	chrY	13470017	.	A	G	192.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26050	chrY	13470018	.	C	T,A	2829.87	PASS	AC=10,5;AF=0.143,0.071;AN=70;Base
26051	chrY	13470019	.	G	A	122.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26052	chrY	13470021	.	G	T	225.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26053	chrY	13470025	.	C	A	242.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26054	chrY	13470029	.	A	C,G,T	11062.33	PASS	AC=30,3,3;AF=0.429,0.043,0.043
26055	chrY	13470030	.	G	C,A	267.02	my_snp_filter	AC=3,4;AF=0.043,0.057;AN=
26056	chrY	13470031	.	C	T	251.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26057	chrY	13470032	.	C	T	4354.05	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
26058	chrY	13470037	.	T	C,A	1431.89	PASS	AC=18,1;AF=0.257,0.014;AN=70;Base
26059	chrY	13470038	.	G	C	1050.64	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
26060	chrY	13470042	.	G	C	575.69	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26061	chrY	13470043	.	A	G	3154.99	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
26062	chrY	13470044	.	G	C	1086.25	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
26063	chrY	13470047	.	T	A	52.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26064	chrY	13470048	.	G	T,A	211.50	my_snp_filter	AC=8,1;AF=0.114,0.014;AN=
26065	chrY	13470052	.	C	T,A	1334.23	PASS	AC=13,2;AF=0.186,0.029;AN=70;Base
26066	chrY	13470054	.	G	T,A,*	626.13	PASS	AC=4,4,1;AF=0.057,0.057,0.014;AN=
26067	chrY	13470058	.	C	T,*	1937.45	PASS	AC=14,1;AF=0.200,0.014;AN=70;Base
26068	chrY	13470060	.	G	C,A,*	684.89	PASS	AC=4,6,1;AF=0.057,0.086,0.014;AN=

26069	chrY	13470067	.	C	A	1245.52	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26070	chrY	13470068	.	C	A	131.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26071	chrY	13470070	.	C	T	59.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26072	chrY	13470071	.	A	G	2828.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26073	chrY	13470077	.	T	A,G	655.92	my_snp_filter	AC=4,2;AF=0.057,0.029;AN=
26074	chrY	13470080	.	C	G	1069.85	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
26075	chrY	13470081	.	T	A	539.15	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
26076	chrY	13470082	.	C	T	139.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26077	chrY	13470083	.	C	T,A	331.01	my_snp_filter	AC=4,3;AF=0.057,0.043;AN=
26078	chrY	13470087	.	T	A	46835.44	PASS	AC=23;AF=0.426;AN=54;Base
26079	chrY	13470089	.	G	A	965.26	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
26080	chrY	13470090	.	G	A	475.15	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
26081	chrY	13470092	.	G	T	76.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26082	chrY	13470095	.	A	G	51.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26083	chrY	13470099	.	C	G	5103.13	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
26084	chrY	13470100	.	C	A	72.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26085	chrY	13470103	.	G	A	6582.19	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
26086	chrY	13470107	.	A	T	7221.96	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
26087	chrY	13470109	.	C	T	25161.59	PASS	AC=17;AF=0.472;AN=36;Base
26088	chrY	13470110	.	A	C	23446.02	PASS	AC=17;AF=0.447;AN=38;Base
26089	chrY	13470115	.	C	G	254.73	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
26090	chrY	13470120	.	A	T	253.17	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26091	chrY	13470121	.	C	A,T	249.71	my_snp_filter	AC=1,1;AF=0.016,0.016;AN=
26092	chrY	13470122	.	A	G	15758.85	PASS	AC=10;AF=0.217;AN=46;Base
26093	chrY	13470126	.	G	A	1638.59	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26094	chrY	13470133	.	T	C	1211.86	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26095	chrY	13470134	.	C	G	180.79	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
26096	chrY	13470135	.	C	T	45.89	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26097	chrY	13470136	.	A	C	151.21	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
26098	chrY	13470137	.	A	C	11346.83	PASS	AC=9;AF=0.155;AN=58;BaseQ
26099	chrY	13470141	.	C	T	2891.77	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
26100	chrY	13470144	.	C	T	162.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26101	chrY	13470158	.	A	G	228.71	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
26102	chrY	13470168	.	A	C	10021.15	PASS	AC=9;AF=0.196;AN=46;BaseQ
26103	chrY	13470169	.	G	C	9828.49	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
26104	chrY	13470172	.	G	T	635.66	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26105	chrY	13470178	.	G	C	960.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26106	chrY	13470180	.	C	T	536.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26107	chrY	13470181	.	G	A	260.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26108	chrY	13470182	.	C	A,G	1017.13	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26109	chrY	13470189	.	G	T	426.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26110	chrY	13470190	.	C	G	275.20	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
26111	chrY	13470192	.	C	G	119.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26112	chrY	13470196	.	G	T	67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26113	chrY	13470198	.	G	T	127.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26114	chrY	13470199	.	T	C	823.79	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26115	chrY	13470201	.	G	T	50.15	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26116	chrY	13470205	.	C	T	73.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26117	chrY	13470208	.	G	T	230.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26118	chrY	13470214	.	G	C,A	416.85	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
26119	chrY	13470215	.	C	T,A	292.84	PASS	AC=2,2;AF=0.031,0.031;AN=64;BaseQ
26120	chrY	13470216	.	G	A	376.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26121	chrY	13470222	.	C	T	103.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26122	chrY	13470226	.	G	T	313.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26123	chrY	13470229	.	T	A	2293.28	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
26124	chrY	13470231	.	G	A	86.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26125	chrY	13470234	.	C	T	626.88	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
26126	chrY	13470235	.	G	A	166.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26127	chrY	13470238	.	G	C	140.14	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
26128	chrY	13470241	.	C	T	106.94	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
26129	chrY	13470245	.	T	C	2094.96	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
26130	chrY	13470247	.	C	G	83.06	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26131	chrY	13470249	.	T	C	385.47	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
26132	chrY	13470250	.	G	A	152.49	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
26133	chrY	13470254	.	C	T	902.05	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26134	chrY	13470256	.	C	T	46.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26135	chrY	13470257	.	G	A	429.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26136	chrY	13470258	.	C	A	52.78	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26137	chrY	13470262	.	C	T	48.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26138	chrY	13470263	.	T	C	2160.59	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
26139	chrY	13470269	.	C	A	339.36	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26140	chrY	13470279	.	C	T	51.77	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26141	chrY	13470280	.	A	G	1337.17	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
26142	chrY	13470286	.	T	A	302.31	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26143	chrY	13470295	.	A	G	1277.87	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
26144	chrY	13470299	.	C	T,*	542.06	PASS	AC=2,2;AF=0.032,0.032;AN=62;BaseQ

26145	chrY	13470303	.	A	G	550.32	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
26146	chrY	13470305	.	C	A,*	314.88	PASS	AC=2,1;AF=0.030,0.015;AN=66;BaseQ
26147	chrY	13470307	.	T	C	784.89	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
26148	chrY	13470310	.	C	A,*	432.02	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQ
26149	chrY	13470314	.	A	C	639.59	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
26150	chrY	13470315	.	G	A,*	649.58	PASS	AC=6,1;AF=0.097,0.016;AN=62;BaseQ
26151	chrY	13470322	.	G	C	667.17	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
26152	chrY	13470329	.	C	T	208.10	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26153	chrY	13470331	.	C	G	272.83	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26154	chrY	13470335	.	A	C	415.33	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
26155	chrY	13470339	.	C	A,*	284.58	PASS	AC=2,1;AF=0.034,0.017;AN=58;BaseQ
26156	chrY	13470341	.	C	A	233.91	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
26157	chrY	13470346	.	A	C	186.64	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
26158	chrY	13470349	.	A	C,*	289.10	PASS	AC=4,2;AF=0.074,0.037;AN=54;BaseQ
26159	chrY	13470351	.	A	T,*	465.90	PASS	AC=2,2;AF=0.036,0.036;AN=56;BaseQ
26160	chrY	13470352	.	C	T	132.97	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
26161	chrY	13470366	.	G	C,*	385.04	PASS	AC=3,1;AF=0.044,0.015;AN=68;BaseQ
26162	chrY	13470369	.	T	G	466.32	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
26163	chrY	13470379	.	C	G	63.02	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
26164	chrY	13470380	.	G	C	558.60	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
26165	chrY	13470386	.	T	G	161.66	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
26166	chrY	13470387	.	G	T	265.68	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
26167	chrY	13470388	.	G	A,*	337.39	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
26168	chrY	13470394	.	T	C,A	362.57	PASS	AC=3,2;AF=0.048,0.032;AN=62;BaseQ
26169	chrY	13470398	.	C	A	213.26	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26170	chrY	13470400	.	G	T	206.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26171	chrY	13470402	.	C	T,*	321.64	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26172	chrY	13470403	.	C	G,T	566.51	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26173	chrY	13470405	.	A	T,*	312.02	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26174	chrY	13470411	.	C	T,*	528.10	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
26175	chrY	13470412	.	A	G,*	571.36	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
26176	chrY	13470414	.	C	A,*	538.38	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26177	chrY	13470417	.	C	T,*	289.88	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
26178	chrY	13470428	.	G	C	38.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26179	chrY	13470429	.	G	A	82.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26180	chrY	13470433	.	C	G	7409.33	PASS	AC=12;AF=0.333;AN=36;BaseQRankSum=
26181	chrY	13470435	.	G	A	363.80	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26182	chrY	13470436	.	C	T	89.44	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
26183	chrY	13470437	.	C	A	135.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26184	chrY	13470444	.	T	C	8596.56	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
26185	chrY	13470448	.	C	T,G	1087.23	PASS	AC=3,2;AF=0.060,0.040;AN=50;BaseQ
26186	chrY	13470449	.	G	A	659.75	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
26187	chrY	13470450	.	T	G	11010.35	PASS	AC=16;AF=0.444;AN=36;BaseQ
26188	chrY	13470452	.	C	A	47.75	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
26189	chrY	13470456	.	T	C	690.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26190	chrY	13470457	.	A	T,G	2441.30	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
26191	chrY	13470458	.	T	A,G	2061.97	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
26192	chrY	13470459	.	A	G	45.97	PASS	AC=2;AF=0.029;AN=70;DP=6717;FS=0.
26193	chrY	13470460	.	A	C	659.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26194	chrY	13470461	.	G	A	293.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26195	chrY	13470464	.	C	A	118.97	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26196	chrY	13470465	.	C	T	380.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26197	chrY	13470466	.	G	A	1127.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26198	chrY	13470467	.	C	A	1435.60	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26199	chrY	13470468	.	T	A	81.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26200	chrY	13470469	.	G	A	42.16	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26201	chrY	13470470	.	G	C,A	720.98	my_snp_filter	AC=1,5;AF=0.014,0.071;AN=
26202	chrY	13470471	.	C	T,G	2363.83	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
26203	chrY	13470475	.	C	T	2109.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26204	chrY	13470477	.	G	T,A	1748.85	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
26205	chrY	13470478	.	T	C	147.59	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26206	chrY	13470480	.	C	T	337.62	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
26207	chrY	13470481	.	G	A	368.92	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26208	chrY	13470482	.	G	A,T,C	2069.12	PASS	AC=3,1,3;AF=0.043,0.014,0.043;AN=
26209	chrY	13470483	.	G	A,T	1512.09	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
26210	chrY	13470484	.	C	T	2718.82	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26211	chrY	13470487	.	G	A	654.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26212	chrY	13470488	.	C	A	486.82	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26213	chrY	13470489	.	C	T	404.17	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26214	chrY	13470490	.	T	C	3594.99	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
26215	chrY	13470491	.	C	T	294.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26216	chrY	13470492	.	C	A	269.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26217	chrY	13470495	.	G	T	170.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26218	chrY	13470496	.	C	T	129.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26219	chrY	13470499	.	C	T	2608.27	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26220	chrY	13470500	.	A	G	2700.55	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=

26221	chrY	13470501	.	C	T	3331.16	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26222	chrY	13470506	.	C	T	11489.32	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
26223	chrY	13470507	.	G	A	7183.80	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
26224	chrY	13470513	.	C	T,A	5231.56	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQRankSum=
26225	chrY	13470514	.	A	G	2996.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26226	chrY	13470516	.	A	G	95.62	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
26227	chrY	13470517	.	G	T	64.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26228	chrY	13470518	.	G	T	215.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26229	chrY	13470519	.	C	T	1020.14	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
26230	chrY	13470520	.	T	C	16405.15	PASS	AC=29;AF=0.518;AN=56;BaseQRankSum=
26231	chrY	13470521	.	G	A	3414.47	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
26232	chrY	13470522	.	G	A	2133.50	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26233	chrY	13470523	.	C	A	329.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
26234	chrY	13470527	.	G	A,T	279.61	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=68;BaseQRankSum=
26235	chrY	13470530	.	G	A,T	2887.81	PASS	AC=4,3;AF=0.059,0.044;AN=68;BaseQRankSum=
26236	chrY	13470533	.	C	T,G	4723.13	PASS	AC=5,4;AF=0.074,0.059;AN=68;BaseQRankSum=
26237	chrY	13470534	.	G	A	7191.03	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
26238	chrY	13470535	.	G	T	3030.12	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
26239	chrY	13470536	.	G	A	417.81	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26240	chrY	13470538	.	G	A,T	6309.96	PASS	AC=10,7;AF=0.143,0.100;AN=70;BaseQRankSum=
26241	chrY	13470539	.	C	T,G	4402.52	PASS	AC=2,9;AF=0.029,0.129;AN=70;BaseQRankSum=
26242	chrY	13470540	.	C	A	3097.84	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
26243	chrY	13470541	.	C	T	7788.56	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
26244	chrY	13470544	.	C	T	673.15	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
26245	chrY	13470545	.	A	G,T	15127.16	PASS	AC=20,2;AF=0.385,0.038;AN=68;BaseQRankSum=
26246	chrY	13470546	.	G	A	181.73	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
26247	chrY	13470547	.	C	G	1989.80	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
26248	chrY	13470548	.	C	A	177.13	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26249	chrY	13470550	.	C	T	40.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26250	chrY	13470551	.	T	C	115.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26251	chrY	13470554	.	C	T	157.45	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26252	chrY	13470556	.	G	T	41.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26253	chrY	13470557	.	C	A	2543.35	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
26254	chrY	13470559	.	A	C,T,G	15427.19	PASS	AC=23,12,2;AF=0.460,0.240,0.038;AN=68;BaseQRankSum=
26255	chrY	13470565	.	C	A	570.17	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
26256	chrY	13470569	.	C	A,T	4450.49	PASS	AC=3,10;AF=0.045,0.152;AN=66;BaseQRankSum=
26257	chrY	13470570	.	G	A	2606.87	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
26258	chrY	13470572	.	G	T,A	1110.36	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQRankSum=
26259	chrY	13470574	.	A	T	110.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26260	chrY	13470575	.	A	T	1294.63	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26261	chrY	13470579	.	C	T,A	6685.18	PASS	AC=11,4;AF=0.157,0.057;AN=70;BaseQRankSum=
26262	chrY	13470580	.	G	A	141.28	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
26263	chrY	13470582	.	C	A	3227.04	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
26264	chrY	13470583	.	C	T	4069.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26265	chrY	13470584	.	G	A,T	2844.53	PASS	AC=5,5;AF=0.071,0.071;AN=70;BaseQRankSum=
26266	chrY	13470585	.	G	C,A	739.16	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQRankSum=
26267	chrY	13470586	.	G	A	80.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26268	chrY	13470587	.	G	T	2590.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26269	chrY	13470588	.	C	A	137.54	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
26270	chrY	13470590	.	C	G	3082.51	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26271	chrY	13470593	.	C	T	3372.63	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26272	chrY	13470594	.	G	T	2773.67	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26273	chrY	13470595	.	C	T,G	679.97	PASS	AC=7,4;AF=0.100,0.057;AN=70;BaseQRankSum=
26274	chrY	13470596	.	G	A,C	4108.16	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQRankSum=
26275	chrY	13470597	.	A	T	82.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26276	chrY	13470598	.	T	C	114.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26277	chrY	13470599	.	G	T	2106.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26278	chrY	13470600	.	G	T	64.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26279	chrY	13470601	.	C	T	353.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26280	chrY	13470602	.	C	T	88.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26281	chrY	13470603	.	C	T	3002.65	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26282	chrY	13470605	.	C	G	363.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26283	chrY	13470606	.	C	T	62.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
26284	chrY	13470607	.	C	A,T	1234.85	PASS	AC=3,9;AF=0.043,0.129;AN=70;BaseQRankSum=
26285	chrY	13470608	.	G	A	199.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26286	chrY	13470610	.	C	A	2712.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26287	chrY	13470612	.	C	G	146.05	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26288	chrY	13470613	.	C	T	1895.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26289	chrY	13470619	.	A	T,G	1942.21	PASS	AC=5,3;AF=0.071,0.043;AN=70;BaseQRankSum=
26290	chrY	13470620	.	C	T	2899.37	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
26291	chrY	13470621	.	G	T	296.73	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26292	chrY	13470623	.	C	G	125.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26293	chrY	13470626	.	A	C	7920.28	PASS	AC=21;AF=0.420;AN=50;BaseQRankSum=
26294	chrY	13470627	.	C	G	1805.94	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
26295	chrY	13470629	.	C	A	83.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26296	chrY	13470632	.	C	T	2098.89	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=

26297	chrY	13470633	.	G	A	765.81	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26298	chrY	13470634	.	C	T,A	799.30	PASS	AC=3,5;AF=0.045,0.076;AN=66;BaseQ
26299	chrY	13470635	.	G	A	1809.61	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
26300	chrY	13470643	.	G	A	2426.02	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
26301	chrY	13470645	.	G	A	201.37	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26302	chrY	13470646	.	G	A	125.22	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26303	chrY	13470648	.	C	T	377.52	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
26304	chrY	13470649	.	T	G	6404.92	PASS	AC=15;AF=0.441;AN=34;BaseQRankSum=
26305	chrY	13470654	.	C	T,A	350.90	PASS	AC=3,3;AF=0.056,0.056;AN=54;BaseQ
26306	chrY	13470657	.	T	C	2793.89	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
26307	chrY	13470658	.	C	G	4485.95	PASS	AC=17;AF=0.472;AN=36;BaseQRankSum=
26308	chrY	13470659	.	T	A	4847.11	PASS	AC=17;AF=0.472;AN=36;BaseQRankSum=
26309	chrY	13470666	.	C	T	1006.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26310	chrY	13470668	.	C	T	101.23	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26311	chrY	13470669	.	G	A	663.03	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
26312	chrY	13470673	.	G	C	55.43	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26313	chrY	13470674	.	G	A	209.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26314	chrY	13470675	.	A	T	60.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26315	chrY	13470677	.	C	T	141.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26316	chrY	13470683	.	C	T	89.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26317	chrY	13470687	.	A	T	492.84	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26318	chrY	13470689	.	T	C,A,G	1350.89	PASS	AC=4,1,2;AF=0.065,0.016,0.032;AN=
26319	chrY	13470692	.	G	T	47.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26320	chrY	13470693	.	G	A	265.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26321	chrY	13470695	.	C	A	186.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26322	chrY	13470700	.	A	G	2369.49	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
26323	chrY	13470702	.	G	T	300.94	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
26324	chrY	13470707	.	C	T	1003.40	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
26325	chrY	13470714	.	C	A,T	509.01	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQ
26326	chrY	13470717	.	A	T	2188.53	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
26327	chrY	13470719	.	C	T	203.34	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
26328	chrY	13470720	.	C	A	219.22	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26329	chrY	13470721	.	C	T,G	319.12	PASS	AC=2,1;AF=0.033,0.017;AN=60;BaseQ
26330	chrY	13470722	.	A	G	337.54	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
26331	chrY	13470725	.	C	T	188.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26332	chrY	13470726	.	C	T,G	408.94	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQ
26333	chrY	13470727	.	C	T	929.43	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26334	chrY	13470728	.	G	A	282.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26335	chrY	13470730	.	A	G	1715.32	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
26336	chrY	13470734	.	C	G,T	636.98	PASS	AC=2,4;AF=0.033,0.067;AN=60;BaseQ
26337	chrY	13470735	.	G	A	2508.62	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
26338	chrY	13470737	.	C	A	200.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26339	chrY	13470739	.	C	A	299.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26340	chrY	13470741	.	A	G	2059.16	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
26341	chrY	13470743	.	A	T	295.64	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26342	chrY	13470745	.	T	A	4486.80	my_snp_filter	AC=13;AF=0.260;AN=50;BaseQ
26343	chrY	13470747	.	C	T	365.25	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26344	chrY	13470748	.	C	A,G	3142.74	my_snp_filter	AC=11,2;AF=0.212,0.038;AN=
26345	chrY	13470752	.	G	C	1706.71	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
26346	chrY	13470755	.	C	T	302.79	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26347	chrY	13470764	.	C	T	224.82	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26348	chrY	13470765	.	G	T	79.83	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26349	chrY	13470772	.	T	C	2182.87	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
26350	chrY	13470773	.	G	A	1935.46	my_snp_filter	AC=10;AF=0.161;AN=62;BaseQ
26351	chrY	13470777	.	C	G	151.58	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
26352	chrY	13470779	.	T	C	8118.24	PASS	AC=12;AF=0.231;AN=52;BaseQRankSum=
26353	chrY	13470781	.	G	T	680.48	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
26354	chrY	13470783	.	G	A	297.80	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
26355	chrY	13470785	.	C	T	128.44	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
26356	chrY	13470788	.	G	C	114.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26357	chrY	13470790	.	T	A	5390.04	PASS	AC=10;AF=0.147;AN=62;BaseQRankSum=
26358	chrY	13470797	.	T	A	184.36	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26359	chrY	13470805	.	G	A	8948.39	PASS	AC=16;AF=0.308;AN=52;BaseQRankSum=
26360	chrY	13470811	.	C	G	3068.65	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26361	chrY	13470813	.	C	T	790.09	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26362	chrY	13470814	.	G	A	1798.39	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
26363	chrY	13470822	.	A	T	856.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26364	chrY	13470823	.	G	A	944.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26365	chrY	13470830	.	C	T	1453.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26366	chrY	13470832	.	G	A	1968.66	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
26367	chrY	13470834	.	T	C	3117.45	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
26368	chrY	13470835	.	G	A	1596.19	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
26369	chrY	13470840	.	T	A	2072.42	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26370	chrY	13470844	.	G	A,T	3228.29	PASS	AC=10,2;AF=0.152,0.030;AN=66;BaseQ
26371	chrY	13470848	.	C	A	2370.84	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
26372	chrY	13470849	.	T	A	1020.26	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=

26373	chrY	13470854	.	T	C,G	4852.88	PASS	AC=16,5;AF=0.320,0.100;AN=50;BaseQ
26374	chrY	13470855	.	T	G,A	5918.59	PASS	AC=16,12;AF=0.296,0.222;AN=54;Bas
26375	chrY	13470860	.	A	T,C	2165.04	PASS	AC=9,8;AF=0.129,0.114;AN=70;BaseQ
26376	chrY	13470861	.	C	T	1080.97	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
26377	chrY	13470862	.	G	A	1606.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26378	chrY	13470865	.	G	C	1083.21	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
26379	chrY	13470867	.	C	A	32.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26380	chrY	13470869	.	G	T	1271.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26381	chrY	13470882	.	C	T,A	2726.94	PASS	AC=1,7;AF=0.015,0.103;AN=68;BaseQ
26382	chrY	13470888	.	C	G	627.65	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
26383	chrY	13470889	.	G	A	1132.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26384	chrY	13470893	.	C	A,T	2016.92	PASS	AC=8,8;AF=0.118,0.118;AN=68;BaseQ
26385	chrY	13470894	.	G	A	2365.76	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26386	chrY	13470897	.	G	T	1233.73	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26387	chrY	13470901	.	C	A	1053.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26388	chrY	13470902	.	C	T	4123.55	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum
26389	chrY	13470903	.	G	A	1119.65	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
26390	chrY	13470925	.	T	G	53.08	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26391	chrY	13470926	.	C	G	147.07	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
26392	chrY	13470927	.	T	C	808.11	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26393	chrY	13470942	.	T	G	4745.88	PASS	AC=18;AF=0.450;AN=40;BaseQRankSum
26394	chrY	13470965	.	T	C	1698.07	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
26395	chrY	13470989	.	G	C	491.49	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
26396	chrY	13471137	.	G	A	204.58	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
26397	chrY	13471145	.	T	C	275.47	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
26398	chrY	13471151	.	G	T	280.71	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
26399	chrY	13471160	.	A	G	336.14	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
26400	chrY	13471169	.	A	C	333.92	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
26401	chrY	13471170	.	G	A	124.72	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26402	chrY	13471188	.	G	A	194.63	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26403	chrY	13471196	.	T	G	297.66	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
26404	chrY	13471363	.	C	A	42.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26405	chrY	13471416	.	C	T	83.83	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
26406	chrY	13471418	.	C	T	83.55	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
26407	chrY	13471422	.	G	A	40.19	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
26408	chrY	13471428	.	A	C	42.05	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
26409	chrY	13471429	.	T	C	41.43	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26410	chrY	13471438	.	T	G	42.16	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
26411	chrY	13471439	.	C	T	53.30	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
26412	chrY	13471561	.	C	G	194.52	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
26413	chrY	13471570	.	T	A	278.52	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
26414	chrY	13471585	.	T	C	313.80	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
26415	chrY	13471598	.	G	C	371.70	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
26416	chrY	13471605	.	T	C	33.22	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
26417	chrY	13471628	.	G	A	414.38	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
26418	chrY	13471634	.	A	G	799.89	my_snp_filter	AC=10;AF=0.192;AN=52;Base
26419	chrY	13471640	.	G	A	818.83	my_snp_filter	AC=10;AF=0.192;AN=52;Base
26420	chrY	13471657	.	T	C	1206.13	my_snp_filter	AC=10;AF=0.185;AN=54;Base
26421	chrY	13471661	.	G	A	281.22	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26422	chrY	13471663	.	T	C	977.51	my_snp_filter	AC=10;AF=0.179;AN=56;Base
26423	chrY	13471669	.	A	G	280.30	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
26424	chrY	13471675	.	C	T	70.63	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26425	chrY	13471678	.	G	A	67.09	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26426	chrY	13471680	.	C	T	109.61	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26427	chrY	13471703	.	C	G	113.45	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
26428	chrY	13471707	.	A	C	230.11	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
26429	chrY	13471709	.	A	G	272.11	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
26430	chrY	13471723	.	G	T	337.69	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
26431	chrY	13471726	.	C	T	295.74	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
26432	chrY	13471727	.	G	A	59.84	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
26433	chrY	13471731	.	G	C	304.51	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
26434	chrY	13471750	.	C	T	358.39	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26435	chrY	13471757	.	T	A	198.54	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26436	chrY	13471764	.	G	T	39.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26437	chrY	13471765	.	A	G	32.97	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26438	chrY	13471767	.	A	T	324.20	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26439	chrY	13471768	.	T	C	580.61	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
26440	chrY	13471770	.	G	A	394.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26441	chrY	13471772	.	G	T	434.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26442	chrY	13471775	.	C	T	38.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26443	chrY	13471776	.	C	T	1401.16	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum
26444	chrY	13471777	.	C	T	685.50	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
26445	chrY	13471778	.	G	A	1877.61	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum
26446	chrY	13471780	.	G	C	936.33	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
26447	chrY	13471783	.	A	T	78.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26448	chrY	13471789	.	A	G	32.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

26449	chrY	13471792	.	C	T	197.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26450	chrY	13471796	.	G	C	434.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26451	chrY	13471797	.	G	C	645.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26452	chrY	13471801	.	A	G	75.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26453	chrY	13471802	.	G	A	343.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26454	chrY	13471805	.	C	T	141.83	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26455	chrY	13471806	.	A	G	4379.84	PASS	AC=22;AF=0.379;AN=58;BaseQRankSum=
26456	chrY	13471807	.	C	T	876.27	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
26457	chrY	13471810	.	T	C	716.01	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
26458	chrY	13471811	.	G	T,A	3016.77	PASS	AC=14,1;AF=0.206,0.015;AN=68;BaseQ
26459	chrY	13471815	.	G	A	68.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26460	chrY	13471820	.	A	C	57.62	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26461	chrY	13471821	.	C	A	83.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26462	chrY	13471823	.	C	T,A	887.60	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
26463	chrY	13471828	.	G	T	31.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26464	chrY	13471829	.	C	T	216.42	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26465	chrY	13471830	.	A	G,T	4837.27	PASS	AC=16,1;AF=0.296,0.019;AN=54;BaseQ
26466	chrY	13471833	.	G	C	257.76	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26467	chrY	13471836	.	G	C	132.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
26468	chrY	13471842	.	T	G,C,A	3062.91	PASS	AC=9,2,3;AF=0.161,0.036,0.054;AN=
26469	chrY	13471843	.	G	T	328.88	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26470	chrY	13471848	.	C	G	131.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26471	chrY	13471850	.	G	A	135.17	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26472	chrY	13471851	.	A	C	1916.46	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
26473	chrY	13471853	.	G	A,C	1344.25	PASS	AC=5,1;AF=0.074,0.015;AN=68;BaseQ
26474	chrY	13471854	.	G	A	113.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26475	chrY	13471864	.	G	C,*	318.22	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
26476	chrY	13471866	.	T	A,*	1953.23	PASS	AC=12,1;AF=0.182,0.015;AN=66;BaseQ
26477	chrY	13471867	.	C	T	157.87	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
26478	chrY	13471869	.	C	T	832.15	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
26479	chrY	13471871	.	C	C,A	249.95	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
26480	chrY	13471872	.	G	A	71.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26481	chrY	13471873	.	G	A,T	1051.86	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
26482	chrY	13471874	.	T	C	769.15	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26483	chrY	13471876	.	G	T	559.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26484	chrY	13471880	.	C	T,G	1616.60	PASS	AC=6,3;AF=0.091,0.045;AN=66;BaseQ
26485	chrY	13471881	.	G	A	568.86	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
26486	chrY	13471882	.	G	A	578.30	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
26487	chrY	13471883	.	T	G	8682.99	PASS	AC=24;AF=0.444;AN=54;BaseQRankSum=
26488	chrY	13471884	.	G	T	262.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26489	chrY	13471887	.	A	G	3616.37	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26490	chrY	13471891	.	C	T	337.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26491	chrY	13471894	.	G	C,T	182.12	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
26492	chrY	13471895	.	G	A	168.58	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26493	chrY	13471896	.	C	A	240.30	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26494	chrY	13471901	.	C	T,A	1689.26	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
26495	chrY	13471908	.	C	T	137.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26496	chrY	13471912	.	C	A	267.18	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26497	chrY	13471916	.	C	T	83.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26498	chrY	13471917	.	G	A	92.29	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
26499	chrY	13471918	.	T	C,A	14241.21	PASS	AC=28,2;AF=0.412,0.029;AN=
26500	chrY	13471921	.	G	A	223.17	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
26501	chrY	13471925	.	C	T	101.93	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26502	chrY	13471927	.	C	A	232.94	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
26503	chrY	13471930	.	T	G	17196.71	PASS	AC=31;AF=0.456;AN=68;BaseQ
26504	chrY	13471931	.	G	A	498.91	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26505	chrY	13471944	.	G	C	1192.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26506	chrY	13471947	.	C	T	685.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26507	chrY	13471948	.	G	A	970.09	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
26508	chrY	13471950	.	G	T	359.67	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
26509	chrY	13471952	.	C	T,G	616.98	PASS	AC=6,5;AF=0.086,0.071;AN=70;BaseQ
26510	chrY	13471953	.	T	A	121.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26511	chrY	13471957	.	A	C	4780.29	PASS	AC=23;AF=0.359;AN=64;BaseQRankSum=
26512	chrY	13471959	.	C	A,T	1904.89	PASS	AC=11,2;AF=0.162,0.029;AN=68;BaseQ
26513	chrY	13471960	.	C	A,T	2359.43	PASS	AC=6,6;AF=0.091,0.091;AN=66;BaseQ
26514	chrY	13471961	.	G	A	1392.66	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
26515	chrY	13471962	.	C	A	265.97	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26516	chrY	13471963	.	C	T	1383.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26517	chrY	13471964	.	C	A	4372.36	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
26518	chrY	13471968	.	C	T,G	1808.64	PASS	AC=9,2;AF=0.129,0.029;AN=70;BaseQ
26519	chrY	13471969	.	C	A	1497.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26520	chrY	13471972	.	T	C,A	7719.16	PASS	AC=22,2;AF=0.355,0.032;AN=62;BaseQ
26521	chrY	13471973	.	G	A	1384.44	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
26522	chrY	13471974	.	G	A	65.27	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26523	chrY	13471975	.	G	C,A	1852.99	PASS	AC=3,9;AF=0.043,0.129;AN=70;BaseQ
26524	chrY	13471978	.	G	C	44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

26525	chrY	13471981	.	C	T,A	1384.25	PASS	AC=8,4;AF=0.114,0.057;AN=70;BaseQ
26526	chrY	13471982	.	G	C	521.56	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26527	chrY	13471983	.	G	A	158.44	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26528	chrY	13471985	.	C	G	69.32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26529	chrY	13471987	.	G	A	90.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26530	chrY	13471993	.	C	G	536.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26531	chrY	13471997	.	C	T	444.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26532	chrY	13472003	.	T	A	3498.42	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
26533	chrY	13472005	.	G	A	502.38	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26534	chrY	13472006	.	T	A	37	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
26535	chrY	13472007	.	C	A	37.06	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
26536	chrY	13472008	.	T	C	1894.97	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
26537	chrY	13472014	.	C	T	296.77	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26538	chrY	13472015	.	G	A	109.42	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
26539	chrY	13472018	.	A	G	4309.53	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
26540	chrY	13472019	.	A	G	57.09	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
26541	chrY	13472021	.	A	G	1751.55	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
26542	chrY	13472024	.	A	C,G	3074.92	PASS	AC=5,5;AF=0.089,0.089;AN=56;BaseQ
26543	chrY	13472026	.	C	A	1783.48	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
26544	chrY	13472029	.	T	C	2471.91	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
26545	chrY	13472031	.	C	G	192.26	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
26546	chrY	13472035	.	A	T,G	482.21	PASS	AC=4,1;AF=0.077,0.019;AN=52;BaseQ
26547	chrY	13472064	.	T	C	1164.64	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
26548	chrY	13472066	.	G	A	184.40	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
26549	chrY	13472071	.	A	C	1095.81	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
26550	chrY	13472072	.	C	T	462.33	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
26551	chrY	13472076	.	A	T	33.37	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
26552	chrY	13472077	.	T	G	84.62	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
26553	chrY	13472080	.	G	A	1461.83	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
26554	chrY	13472082	.	C	G	490.47	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
26555	chrY	13472083	.	C	A	689.78	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
26556	chrY	13472091	.	A	C	2003.67	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
26557	chrY	13472093	.	A	G	2342.39	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
26558	chrY	13472100	.	G	C	512.48	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
26559	chrY	13472102	.	C	T	682.04	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
26560	chrY	13472107	.	C	T	2039.64	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
26561	chrY	13472113	.	G	A	96.88	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
26562	chrY	13472120	.	C	T,*	1986.27	PASS	AC=2,2;AF=0.048,0.048;AN=42;BaseQ
26563	chrY	13472121	.	A	G,*	2912.69	PASS	AC=4,2;AF=0.105,0.053;AN=38;BaseQ
26564	chrY	13472124	.	T	C	489.48	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
26565	chrY	13472128	.	T	C	895.82	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
26566	chrY	13472136	.	T	C	2365.67	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
26567	chrY	13472144	.	C	A	882.16	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
26568	chrY	13472166	.	G	A	116.31	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
26569	chrY	13472167	.	C	A	1352.58	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
26570	chrY	13472168	.	C	T	1289.19	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum=
26571	chrY	13472176	.	C	T	30.26	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
26572	chrY	13472182	.	A	C	39.03	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26573	chrY	13472184	.	C	T	43.57	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26574	chrY	13472185	.	A	T	55.31	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26575	chrY	13472186	.	C	T	1640.92	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
26576	chrY	13472191	.	C	A	1332.47	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
26577	chrY	13472194	.	C	A	794.92	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
26578	chrY	13472205	.	G	C	888.66	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
26579	chrY	13472206	.	A	C	1559.60	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
26580	chrY	13472208	.	C	A	362.82	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
26581	chrY	13472209	.	C	T	90.32	PASS	AC=2;AF=0.043;AN=46;DP=2211;FS=2.
26582	chrY	13472210	.	A	T	278.31	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
26583	chrY	13472213	.	C	G	98.21	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
26584	chrY	13472216	.	C	A,*	1092.05	PASS	AC=1,6;AF=0.019,0.111;AN=54;BaseQ
26585	chrY	13472222	.	C	A	1397.27	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
26586	chrY	13472223	.	C	A	1133.41	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
26587	chrY	13472224	.	C	A	717.15	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
26588	chrY	13472229	.	C	G	886.49	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26589	chrY	13472232	.	A	C	3123.63	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
26590	chrY	13472233	.	C	T	118.35	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
26591	chrY	13472236	.	A	G	51.24	PASS	AC=2;AF=0.038;AN=52;DP=1872;FS=0.
26592	chrY	13472239	.	A	T	173.04	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
26593	chrY	13472243	.	T	A	3640.69	PASS	AC=8;AF=0.250;AN=32;BaseQRankSum=
26594	chrY	13472249	.	C	A	42.98	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
26595	chrY	13472260	.	T	G	842.17	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
26596	chrY	13472261	.	T	C	2737.90	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
26597	chrY	13472267	.	A	C,*	2277.97	PASS	AC=2,4;AF=0.059,0.118;AN=34;BaseQ
26598	chrY	13472268	.	A	C,*	950.84	PASS	AC=2,1;AF=0.067,0.033;AN=30;BaseQ
26599	chrY	13472272	.	G	A	430.22	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
26600	chrY	13472276	.	A	C	3474.72	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=

26601	chrY	13472286	.	T	C	316.09	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
26602	chrY	13472287	.	G	A	289.48	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
26603	chrY	13472295	.	G	A	2842.27	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
26604	chrY	13472300	.	A	G	3012.91	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
26605	chrY	13472312	.	C	A	32.19	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
26606	chrY	13472314	.	G	C	4378.86	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
26607	chrY	13472321	.	G	A	466.65	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
26608	chrY	13472323	.	A	T	4221.11	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
26609	chrY	13472333	.	T	C	890.53	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
26610	chrY	13472334	.	G	A	915.96	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
26611	chrY	13472337	.	T	C	152.47	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26612	chrY	13472340	.	G	A	169.13	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
26613	chrY	13472341	.	C	T	478.11	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
26614	chrY	13472345	.	C	T	146.14	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
26615	chrY	13472346	.	A	G,C	678.08	PASS	AC=3,1;AF=0.100,0.033;AN=30;BaseQ
26616	chrY	13472354	.	G	A	210.14	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
26617	chrY	13472356	.	T	C	4700.97	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
26618	chrY	13472360	.	A	G	530.24	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
26619	chrY	13472367	.	G	C	6267.64	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
26620	chrY	13472368	.	T	C	6255.22	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
26621	chrY	13472373	.	C	A	6280.07	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
26622	chrY	13472374	.	T	C	6587.91	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
26623	chrY	13472386	.	T	C	8562.60	PASS	AC=13;AF=0.361;AN=36;BaseQRankSum=
26624	chrY	13472388	.	G	A	7823.25	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
26625	chrY	13472389	.	C	G	554.60	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
26626	chrY	13472397	.	A	G	179.02	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
26627	chrY	13472402	.	T	G	10449.15	PASS	AC=13;AF=0.382;AN=34;BaseQ
26628	chrY	13472403	.	A	T,C	10110.28	PASS	AC=4,9;AF=0.118,0.265;AN=
26629	chrY	13472411	.	G	A	11643.32	PASS	AC=13;AF=0.283;AN=46;BaseQ
26630	chrY	13472413	.	C	T	581.58	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26631	chrY	13472415	.	G	A	10169.26	PASS	AC=9;AF=0.129;AN=70;BaseQ
26632	chrY	13472420	.	C	A	479.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26633	chrY	13472442	.	G	A	10069.99	PASS	AC=24;AF=0.400;AN=60;BaseQ
26634	chrY	13472444	.	C	A	65.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26635	chrY	13472445	.	C	T,A	444.09	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
26636	chrY	13472450	.	G	T	4817.94	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
26637	chrY	13472452	.	C	A	206.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26638	chrY	13472461	.	C	A	211.26	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26639	chrY	13472462	.	G	A,T	9358.35	PASS	AC=19,10;AF=0.317,0.167;AN=60;Bas
26640	chrY	13472463	.	C	T	33.46	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26641	chrY	13472465	.	C	T,A	301.31	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
26642	chrY	13472470	.	C	G	346.83	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26643	chrY	13472471	.	A	G	1031.44	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26644	chrY	13472476	.	C	G	192.23	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
26645	chrY	13472477	.	T	C	9750.81	PASS	AC=21;AF=0.420;AN=50;BaseQRankSum=
26646	chrY	13472478	.	G	T	7740.39	PASS	AC=23;AF=0.479;AN=48;BaseQRankSum=
26647	chrY	13472481	.	T	A,*	219.32	PASS	AC=1,1;AF=0.020,0.020;AN=50;BaseQ
26648	chrY	13472484	.	T	C	21401.03	PASS	AC=24;AF=0.500;AN=48;BaseQ
26649	chrY	13472485	.	G	A	10234.27	PASS	AC=20;AF=0.400;AN=50;BaseQ
26650	chrY	13472488	.	C	A	71.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26651	chrY	13472495	.	C	G	8565.19	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
26652	chrY	13472496	.	C	T	8895.34	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
26653	chrY	13472497	.	C	A	11248.54	PASS	AC=21;AF=0.309;AN=68;BaseQ
26654	chrY	13472498	.	G	T	102.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26655	chrY	13472501	.	C	G	568.89	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
26656	chrY	13472502	.	G	T	39.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26657	chrY	13472510	.	G	T	36.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26658	chrY	13472519	.	T	A	12363.23	PASS	AC=21;AF=0.309;AN=68;BaseQ
26659	chrY	13472522	.	A	C	12570.23	PASS	AC=21;AF=0.309;AN=68;BaseQ
26660	chrY	13472525	.	T	C	63.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26661	chrY	13472526	.	G	C	71.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26662	chrY	13472532	.	T	C	33.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26663	chrY	13472534	.	C	T	6391.79	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
26664	chrY	13472544	.	T	C	282.90	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26665	chrY	13472549	.	C	A	72.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26666	chrY	13472556	.	A	C	24723.78	PASS	AC=29;AF=0.483;AN=60;BaseQ
26667	chrY	13472560	.	C	T	2693.86	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
26668	chrY	13472572	.	G	T	5293.30	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
26669	chrY	13472577	.	A	T	342.30	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
26670	chrY	13472579	.	T	C	12095.71	PASS	AC=22;AF=0.367;AN=60;BaseQ
26671	chrY	13472585	.	G	A	10646.05	PASS	AC=21;AF=0.328;AN=64;BaseQ
26672	chrY	13472589	.	G	A	11210.74	PASS	AC=20;AF=0.303;AN=66;BaseQ
26673	chrY	13472626	.	C	A	11204.81	my_snp_filter	AC=14;AF=0.219;AN=
26674	chrY	13472629	.	A	T	8896.56	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQ
26675	chrY	13472642	.	C	G	10001	my_snp_filter	AC=13;AF=0.210;AN=62;BaseQ
26676	chrY	13472643	.	C	T	112.09	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=

26677	chrY	13472644	.	G	A	236.40	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
26678	chrY	13472667	.	A	G	584.58	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
26679	chrY	13472681	.	C	G,A	6044.92	my_snp_filter	AC=10,3;AF=0.172,0.052;AN
26680	chrY	13472683	.	C	T	1246.51	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
26681	chrY	13472688	.	A	T	1772.94	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQ
26682	chrY	13472705	.	A	C,T	5938.06	my_snp_filter	AC=10,2;AF=0.208,0.042;AN
26683	chrY	13472732	.	C	A	1059.83	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
26684	chrY	13472739	.	T	A	1476.99	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
26685	chrY	13472741	.	G	A	1897.66	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
26686	chrY	13472744	.	G	T	1199.20	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
26687	chrY	13472748	.	A	G	43.88	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
26688	chrY	13472752	.	C	A	788.28	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26689	chrY	13472755	.	A	G	504.86	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26690	chrY	13472767	.	T	A	810.02	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26691	chrY	13472770	.	C	G	61.37	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26692	chrY	13472774	.	A	G	64.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26693	chrY	13472779	.	C	G	630.59	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26694	chrY	13472785	.	C	A	308.38	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
26695	chrY	13472799	.	A	C	176.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
26696	chrY	13472998	.	C	G	90.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26697	chrY	13473041	.	T	G	1052.78	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
26698	chrY	13473042	.	T	C	491.65	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
26699	chrY	13473044	.	T	C	326.78	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
26700	chrY	13473045	.	C	G	341.82	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
26701	chrY	13473050	.	A	T	66.01	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
26702	chrY	13473053	.	C	G	332.86	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
26703	chrY	13473059	.	A	C	1206.61	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
26704	chrY	13473064	.	C	T	430.79	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
26705	chrY	13473067	.	T	C	39.75	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
26706	chrY	13473096	.	A	T	102.76	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26707	chrY	13473097	.	G	A	106.78	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26708	chrY	13473126	.	C	A	95.89	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
26709	chrY	13473132	.	C	A	78.75	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
26710	chrY	13473148	.	A	T	415.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26711	chrY	13473166	.	A	T	257.42	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26712	chrY	13473172	.	C	G	234.86	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
26713	chrY	13473178	.	T	G	273.74	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
26714	chrY	13473188	.	A	G	264.13	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
26715	chrY	13473207	.	A	T	210.95	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26716	chrY	13473214	.	C	A	218.76	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26717	chrY	13473216	.	A	T	236.45	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26718	chrY	13473218	.	G	C	177.23	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26719	chrY	13473221	.	A	G	182.77	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
26720	chrY	13473375	.	A	G	863	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
26721	chrY	13473385	.	C	T	204.48	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
26722	chrY	13473390	.	T	A	141.40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26723	chrY	13473394	.	C	G	482.53	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
26724	chrY	13473398	.	G	T	200.57	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
26725	chrY	13473400	.	C	A	277.81	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
26726	chrY	13473401	.	T	C	524.61	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26727	chrY	13473408	.	C	G	702.86	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
26728	chrY	13473409	.	A	T	49.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26729	chrY	13473411	.	T	G	303.55	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26730	chrY	13473412	.	T	C	194.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26731	chrY	13473420	.	T	A	171.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26732	chrY	13473425	.	T	A	500.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26733	chrY	13473426	.	G	A	132.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26734	chrY	13473439	.	A	G	62.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26735	chrY	13473440	.	T	G	484.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26736	chrY	13473447	.	C	A	652.46	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
26737	chrY	13473457	.	G	A	34.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26738	chrY	13473460	.	G	A	35.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26739	chrY	13473465	.	A	G	392.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26740	chrY	13473468	.	T	A	78.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26741	chrY	13473479	.	T	C	240.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26742	chrY	13473480	.	C	T	30.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26743	chrY	13473489	.	G	C	48.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26744	chrY	13473496	.	C	G	57.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26745	chrY	13473498	.	G	C	78.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26746	chrY	13473507	.	G	T	362.02	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
26747	chrY	13473510	.	A	G	310.69	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26748	chrY	13473511	.	T	A	89.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26749	chrY	13473522	.	T	C	187.77	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
26750	chrY	13473535	.	G	A,C	179.60	PASS	AC=3,1;AF=0.047,0.016;AN=64;BaseQ
26751	chrY	13473565	.	G	C	127.30	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
26752	chrY	13473579	.	C	G	79.75	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=

26753	chrY	13473607	.	G	A	351.05	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
26754	chrY	13473618	.	G	A	1123.07	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
26755	chrY	13473626	.	T	G	31.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26756	chrY	13473632	.	A	T	291.81	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26757	chrY	13473654	.	A	C	200.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26758	chrY	13473658	.	T	A	108.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26759	chrY	13473659	.	C	G	125	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26760	chrY	13473673	.	C	A	101.35	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26761	chrY	13473679	.	C	A	1986.85	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
26762	chrY	13473684	.	C	G,A	2982.29	my_snp_filter	AC=8,3;AF=0.133,0.050;AN=
26763	chrY	13473685	.	T	G	1292.47	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
26764	chrY	13473687	.	A	T	1486.26	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
26765	chrY	13473693	.	C	A	45.29	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26766	chrY	13473699	.	T	A	123.80	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26767	chrY	13473703	.	C	A	51.15	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26768	chrY	13473704	.	A	C	118.84	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
26769	chrY	13473705	.	G	C	1702.97	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
26770	chrY	13473712	.	T	A	888.58	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
26771	chrY	13473716	.	A	T	6687.75	PASS	AC=12;AF=0.286;AN=42;BaseQRankSum=
26772	chrY	13473719	.	C	T	934.38	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
26773	chrY	13473728	.	C	T	129.04	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26774	chrY	13473729	.	C	A	76.83	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
26775	chrY	13473733	.	A	T	121.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26776	chrY	13473740	.	G	A	115.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26777	chrY	13473742	.	C	A	791.67	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
26778	chrY	13473744	.	A	G	139.43	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
26779	chrY	13473747	.	C	G,A	413.35	my_snp_filter	AC=2,1;AF=0.030,0.015;AN=
26780	chrY	13473751	.	A	G	119.10	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26781	chrY	13473756	.	C	A	109.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26782	chrY	13473760	.	A	T	112.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26783	chrY	13473762	.	C	T	124.39	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
26784	chrY	13473764	.	G	T	73.72	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26785	chrY	13473766	.	G	A	31.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26786	chrY	13473768	.	G	T	71.53	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26787	chrY	13473773	.	G	A	123.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26788	chrY	13473774	.	T	G	94.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26789	chrY	13473776	.	C	A	118.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26790	chrY	13473780	.	G	A	708.62	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
26791	chrY	13473781	.	A	G	36.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26792	chrY	13473784	.	T	C	205	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26793	chrY	13473788	.	A	C	92.12	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
26794	chrY	13473793	.	C	G	220.70	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
26795	chrY	13473794	.	C	T,G	924.18	PASS	AC=7,2;AF=0.109,0.031;AN=64;BaseQ
26796	chrY	13473797	.	C	A	128.90	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
26797	chrY	13473799	.	C	G,T	600.69	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
26798	chrY	13473801	.	A	T	268.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26799	chrY	13473802	.	G	T	288.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26800	chrY	13473806	.	G	T	282.15	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26801	chrY	13473809	.	T	C	45.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26802	chrY	13473811	.	T	C	273.53	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26803	chrY	13473815	.	G	A	73.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26804	chrY	13473819	.	A	G	712.93	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
26805	chrY	13473822	.	C	T	236.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26806	chrY	13473823	.	C	A	240.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26807	chrY	13473827	.	C	G,T	3168.14	PASS	AC=11,2;AF=0.157,0.029;AN=70;BaseQ
26808	chrY	13473828	.	A	C	34.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26809	chrY	13473832	.	G	A	35.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26810	chrY	13473833	.	G	C	82.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26811	chrY	13473834	.	G	A	612.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26812	chrY	13473835	.	T	A	2856.97	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
26813	chrY	13473839	.	C	G	100.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26814	chrY	13473840	.	A	C	40.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26815	chrY	13473842	.	T	C	32.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26816	chrY	13473845	.	A	G	35.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26817	chrY	13473848	.	G	T	134.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26818	chrY	13473852	.	T	A	71.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26819	chrY	13473862	.	C	A,*	1032.83	PASS	AC=4,3;AF=0.059,0.044;AN=68;BaseQ
26820	chrY	13473863	.	C	A	355.28	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
26821	chrY	13473864	.	C	T,A	2682.36	PASS	AC=7,1;AF=0.100,0.014;AN=70;BaseQ
26822	chrY	13473873	.	C	T	318.92	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
26823	chrY	13473874	.	A	G	35.65	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
26824	chrY	13473877	.	G	C	1601.59	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
26825	chrY	13473880	.	A	T	4753.21	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
26826	chrY	13473884	.	T	C	5903.55	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
26827	chrY	13473888	.	A	T	231.42	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
26828	chrY	13473892	.	A	T	315.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

26829	chrY	13473894	.	A	G	311.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26830	chrY	13473911	.	T	A	158.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26831	chrY	13473917	.	C	G	879.34	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
26832	chrY	13473925	.	A	T	52.44	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26833	chrY	13473943	.	G	A	136.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26834	chrY	13473963	.	T	C	102.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26835	chrY	13473975	.	C	T	549.78	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
26836	chrY	13473987	.	T	A	110.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26837	chrY	13474008	.	C	G	266.89	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
26838	chrY	13474011	.	A	T	257.74	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
26839	chrY	13474017	.	T	C	157.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26840	chrY	13474028	.	T	A	308.25	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
26841	chrY	13474044	.	T	C	150.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26842	chrY	13474046	.	A	T	241.92	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
26843	chrY	13474055	.	G	A	189.17	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
26844	chrY	13474067	.	G	T	126.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
26845	chrY	13474087	.	A	G	384.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26846	chrY	13474089	.	C	T	92.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26847	chrY	13474094	.	C	G	198.55	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
26848	chrY	13474259	.	G	A	63.43	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
26849	chrY	13474274	.	C	A	2981.74	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
26850	chrY	13474288	.	A	G	3519.47	PASS	AC=21;AF=0.404;AN=52;BaseQRankSum=
26851	chrY	13474291	.	T	A	238.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
26852	chrY	13474297	.	A	G	1098.69	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
26853	chrY	13474299	.	T	C	6234.80	PASS	AC=19;AF=0.317;AN=60;BaseQRankSum=
26854	chrY	13474300	.	G	C	40.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26855	chrY	13474301	.	T	C	2083.82	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
26856	chrY	13474309	.	C	G	893.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26857	chrY	13474310	.	A	T	141.19	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26858	chrY	13474314	.	G	C	992.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26859	chrY	13474331	.	A	C	177.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26860	chrY	13474336	.	A	G	1586.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26861	chrY	13474337	.	C	G	30.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26862	chrY	13474339	.	A	G	1638.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26863	chrY	13474342	.	C	G,*	1244.87	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
26864	chrY	13474343	.	C	T,G	386.23	my_snp_filter	AC=2,5;AF=0.029,0.071;AN=
26865	chrY	13474345	.	C	T	466.59	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26866	chrY	13474348	.	T	G	12427.07	PASS	AC=19;AF=0.271;AN=70;BaseQ
26867	chrY	13474350	.	G	C	12579.76	PASS	AC=19;AF=0.271;AN=70;BaseQ
26868	chrY	13474357	.	C	A	386.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26869	chrY	13474358	.	C	A	1316.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26870	chrY	13474361	.	G	A	370.91	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26871	chrY	13474363	.	C	G	46.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26872	chrY	13474366	.	G	A	278.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26873	chrY	13474367	.	A	G	16540.83	PASS	AC=20;AF=0.286;AN=70;BaseQ
26874	chrY	13474368	.	G	A	12846.87	PASS	AC=19;AF=0.271;AN=70;BaseQ
26875	chrY	13474374	.	C	A	73.60	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26876	chrY	13474376	.	C	G	13710.47	PASS	AC=18;AF=0.257;AN=70;BaseQ
26877	chrY	13474378	.	T	A,C	695.38	my_snp_filter	AC=3,3;AF=0.043,0.043;AN=
26878	chrY	13474380	.	G	A	437.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26879	chrY	13474381	.	G	T	16524.07	PASS	AC=16;AF=0.229;AN=70;BaseQ
26880	chrY	13474386	.	C	T,G	674.92	my_snp_filter	AC=4,2;AF=0.057,0.029;AN=
26881	chrY	13474388	.	G	A	438.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26882	chrY	13474389	.	T	C,A	374.16	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
26883	chrY	13474390	.	G	A	500.32	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
26884	chrY	13474391	.	T	C,A	89725.18	PASS	AC=30,3;AF=0.517,0.052;AN=
26885	chrY	13474396	.	A	T	9167.01	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
26886	chrY	13474398	.	A	T	67.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26887	chrY	13474399	.	T	C	182.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26888	chrY	13474400	.	G	A,T	819.73	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
26889	chrY	13474401	.	C	T	2402.19	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
26890	chrY	13474404	.	C	A	945.68	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
26891	chrY	13474405	.	A	C	10515.79	PASS	AC=12;AF=0.171;AN=70;BaseQ
26892	chrY	13474406	.	A	T	3403.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26893	chrY	13474410	.	C	T	623.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26894	chrY	13474411	.	G	A	257.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26895	chrY	13474417	.	A	G	221.40	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26896	chrY	13474424	.	T	C	521.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26897	chrY	13474427	.	A	G	2802.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26898	chrY	13474428	.	G	T	55.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26899	chrY	13474430	.	C	G	10487.19	PASS	AC=12;AF=0.171;AN=70;BaseQ
26900	chrY	13474434	.	A	T	6150.33	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
26901	chrY	13474435	.	G	A	6356.24	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
26902	chrY	13474443	.	A	T	137.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26903	chrY	13474446	.	T	C	151.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26904	chrY	13474448	.	C	T	12688.42	my_snp_filter	AC=8;AF=0.125;AN=

26905	chrY	13474449	.	G	C,T	313.66	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
26906	chrY	13474451	.	G	T	211.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26907	chrY	13474453	.	T	A	273.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26908	chrY	13474456	.	C	G	123.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26909	chrY	13474458	.	G	T	11818.97	my_snp_filter	AC=5;AF=0.076;AN=
26910	chrY	13474459	.	C	G,T	289.07	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
26911	chrY	13474460	.	A	G	60.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26912	chrY	13474461	.	G	A	119.17	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26913	chrY	13474463	.	G	A	40.41	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26914	chrY	13474464	.	A	T,G	318.84	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
26915	chrY	13474465	.	T	C	225.32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26916	chrY	13474467	.	T	A	144.50	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
26917	chrY	13474469	.	T	C	1740.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26918	chrY	13474472	.	C	A	16800.21	my_snp_filter	AC=7;AF=0.103;AN=
26919	chrY	13474477	.	C	T	32.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26920	chrY	13474478	.	C	A	872.07	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
26921	chrY	13474479	.	C	T	716.57	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26922	chrY	13474482	.	G	A	125.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26923	chrY	13474485	.	G	A	1147.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26924	chrY	13474487	.	C	T	537.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26925	chrY	13474488	.	A	T	111.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26926	chrY	13474489	.	G	T	118.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26927	chrY	13474500	.	A	G	181.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26928	chrY	13474502	.	A	T,G	3548.78	my_snp_filter	AC=5,4;AF=0.071,0.057;AN=
26929	chrY	13474503	.	G	T	360.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26930	chrY	13474506	.	C	T	3603.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26931	chrY	13474512	.	C	T	32.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26932	chrY	13474515	.	G	A	231.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26933	chrY	13474516	.	G	C	3727.68	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
26934	chrY	13474526	.	G	T	1961.72	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
26935	chrY	13474531	.	G	C	726.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26936	chrY	13474532	.	T	A	141.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26937	chrY	13474539	.	A	G	3105.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
26938	chrY	13474540	.	C	A	145.74	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26939	chrY	13474544	.	G	A	7508.43	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
26940	chrY	13474545	.	C	T	1829.59	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
26941	chrY	13474547	.	G	C	24667.08	PASS	AC=15;AF=0.469;AN=32;BaseQ
26942	chrY	13474549	.	C	T	793.26	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
26943	chrY	13474550	.	T	A	5397.74	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
26944	chrY	13474551	.	T	G	41.91	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
26945	chrY	13474555	.	G	A,T	463.37	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
26946	chrY	13474556	.	C	G	2138.83	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
26947	chrY	13474560	.	G	T	4396.33	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26948	chrY	13474561	.	C	T	524.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26949	chrY	13474567	.	C	A	218.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26950	chrY	13474570	.	G	T	13906.43	PASS	AC=9;AF=0.132;AN=68;BaseQ
26951	chrY	13474571	.	G	T	895	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26952	chrY	13474579	.	C	G	535.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26953	chrY	13474581	.	C	A	389.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26954	chrY	13474584	.	G	C	271.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
26955	chrY	13474587	.	T	A	436.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26956	chrY	13474588	.	G	T	559.86	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26957	chrY	13474596	.	C	A	6598.73	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
26958	chrY	13474603	.	A	G	32183.76	PASS	AC=10;AF=0.357;AN=28;BaseQ
26959	chrY	13474604	.	T	C	86.64	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
26960	chrY	13474605	.	G	T	1374.98	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
26961	chrY	13474610	.	A	G	3558.45	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
26962	chrY	13474613	.	C	A	136.90	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
26963	chrY	13474620	.	T	C	352.90	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
26964	chrY	13474623	.	C	A	1891.53	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
26965	chrY	13474624	.	C	A	373.62	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
26966	chrY	13474628	.	T	G,A	71231.62	PASS	AC=14,2;AF=0.636,0.091;AN=
26967	chrY	13474629	.	C	A	1247.34	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
26968	chrY	13474630	.	T	C,A	60049.79	PASS	AC=10,4;AF=0.500,0.200;AN=
26969	chrY	13474633	.	G	T,C	657.91	my_snp_filter	AC=1,1;AF=0.016,0.016;AN=
26970	chrY	13474634	.	A	T	2184.04	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
26971	chrY	13474635	.	C	T	1618.98	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
26972	chrY	13474638	.	G	T,*	801.35	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
26973	chrY	13474639	.	A	G,T	7535.55	PASS	AC=4,6;AF=0.059,0.088;AN=68;BaseQ
26974	chrY	13474641	.	T	A	46.04	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26975	chrY	13474659	.	C	A	367.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26976	chrY	13474661	.	G	C	156.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26977	chrY	13474668	.	G	A	271.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26978	chrY	13474669	.	A	T	35.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26979	chrY	13474673	.	G	T	247.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
26980	chrY	13474677	.	C	A	66.36	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

26981	chrY	13474682	.	T	C	493.03	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26982	chrY	13474683	.	C	T	43.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26983	chrY	13474688	.	T	C	783.54	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
26984	chrY	13474695	.	A	T	129.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
26985	chrY	13474697	.	C	G	63.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
26986	chrY	13474700	.	T	G,A	336.32	my_snp_filter	AC=3,5;AF=0.043,0.071;AN=
26987	chrY	13474703	.	C	G	1227.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26988	chrY	13474706	.	A	T	512.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
26989	chrY	13474710	.	G	T	225.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
26990	chrY	13474714	.	T	A	179.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26991	chrY	13474717	.	C	T	241.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
26992	chrY	13474720	.	G	A	246.12	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
26993	chrY	13474721	.	G	T	53.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
26994	chrY	13474722	.	G	A,T	686.50	PASS	AC=4,4;AF=0.057,0.057;AN=70;BaseQ
26995	chrY	13474726	.	T	C	515.59	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
26996	chrY	13474728	.	A	C	611.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
26997	chrY	13474730	.	T	C	591.59	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
26998	chrY	13474732	.	C	T	342.25	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
26999	chrY	13474733	.	A	G,T	6606.78	PASS	AC=21,2;AF=0.318,0.030;AN=66;Base
27000	chrY	13474736	.	G	T,A	712.85	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
27001	chrY	13474740	.	T	C	41.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27002	chrY	13474741	.	G	A	87.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27003	chrY	13474744	.	A	C	36.27	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27004	chrY	13474745	.	C	A,T	321.16	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
27005	chrY	13474747	.	A	G	649.94	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
27006	chrY	13474752	.	T	G	187.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27007	chrY	13474754	.	C	T	1241.58	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27008	chrY	13474755	.	A	T,C	510.49	PASS	AC=2,2;AF=0.029,0.029;AN=68;BaseQ
27009	chrY	13474756	.	G	C	60.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27010	chrY	13474757	.	T	C	85.64	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27011	chrY	13474760	.	G	A	102.08	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
27012	chrY	13474761	.	C	A	1198.71	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27013	chrY	13474766	.	T	C	7114.49	my_snp_filter	AC=17;AF=0.472;AN=36;Base
27014	chrY	13474767	.	C	A,G	1036.25	my_snp_filter	AC=2,4;AF=0.040,0.080;AN=
27015	chrY	13474769	.	G	A	7090.38	my_snp_filter	AC=14;AF=0.467;AN=30;Base
27016	chrY	13474772	.	C	G	838.23	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
27017	chrY	13474776	.	A	G	730.41	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
27018	chrY	13474777	.	G	A	132.39	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27019	chrY	13474781	.	C	A	166.76	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
27020	chrY	13474791	.	G	C	51.15	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
27021	chrY	13474798	.	A	G	405.44	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
27022	chrY	13474799	.	T	G	267.31	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
27023	chrY	13475215	.	C	G	517.79	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
27024	chrY	13475237	.	A	G	618.97	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
27025	chrY	13475257	.	T	A	44.31	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27026	chrY	13475260	.	C	A	760.26	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27027	chrY	13475269	.	G	A	5248.80	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
27028	chrY	13475270	.	G	A	5248.50	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=
27029	chrY	13475271	.	T	G	54.21	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27030	chrY	13475277	.	G	C	45.98	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27031	chrY	13475280	.	T	G	5420.82	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
27032	chrY	13475283	.	A	T	988.79	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27033	chrY	13475291	.	C	T	5688.65	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum=
27034	chrY	13475292	.	A	C	5781.30	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum=
27035	chrY	13475295	.	A	T	5898.91	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum=
27036	chrY	13475301	.	C	A,T	1354.28	PASS	AC=2,3;AF=0.032,0.048;AN=62;BaseQ
27037	chrY	13475303	.	T	C	963.71	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
27038	chrY	13475313	.	C	T	6040.26	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum=
27039	chrY	13475323	.	T	C	2921.20	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
27040	chrY	13475325	.	T	G	42.33	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
27041	chrY	13475340	.	T	A,G	5632.05	PASS	AC=15,3;AF=0.395,0.079;AN=38;Base
27042	chrY	13475358	.	T	C	53.89	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
27043	chrY	13475381	.	C	A	2199.04	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
27044	chrY	13475382	.	C	A	2068.64	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
27045	chrY	13475385	.	T	G	2190.69	my_snp_filter	AC=7;AF=0.175;AN=40;BaseQ
27046	chrY	13475395	.	C	T	1747.64	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
27047	chrY	13475396	.	G	A	1727.51	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQ
27048	chrY	13475408	.	A	G	1451.83	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
27049	chrY	13475438	.	G	T	1404.10	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
27050	chrY	13475445	.	A	C	1223.88	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
27051	chrY	13475457	.	A	G	2544.17	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
27052	chrY	13475483	.	C	G	263	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27053	chrY	13475484	.	A	G	262.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27054	chrY	13475487	.	G	T	370.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27055	chrY	13475488	.	A	T	459.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27056	chrY	13475506	.	G	A	202.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

27057	chrY	13475526	.	A	G,*	264.95	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
27058	chrY	13475530	.	C	A	892.76	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27059	chrY	13475556	.	G	A	160.09	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27060	chrY	13475632	.	G	A	51.34	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
27061	chrY	13475663	.	G	A	113.26	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27062	chrY	13475674	.	C	T	182.43	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27063	chrY	13475686	.	G	T	117.54	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27064	chrY	13475702	.	C	T	60.79	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
27065	chrY	13475703	.	G	A	158.63	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27066	chrY	13475713	.	T	G	47.71	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
27067	chrY	13475717	.	C	T	67.84	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
27068	chrY	13475733	.	G	C	35.52	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27069	chrY	13475738	.	A	G	39.60	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27070	chrY	13475742	.	C	A	38.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27071	chrY	13475744	.	T	A	38.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27072	chrY	13475767	.	A	T	497.11	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
27073	chrY	13475769	.	G	A	328.24	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
27074	chrY	13475831	.	T	G	213.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27075	chrY	13475841	.	T	A	165.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27076	chrY	13475843	.	C	A	206.68	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27077	chrY	13475844	.	C	A	81.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
27078	chrY	13475849	.	C	T	1767.01	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=
27079	chrY	13475859	.	C	A	96.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27080	chrY	13475866	.	A	G	108.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27081	chrY	13475869	.	G	C	220.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27082	chrY	13475878	.	A	C	1412.12	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
27083	chrY	13475884	.	G	T	96.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27084	chrY	13475887	.	C	A	44.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27085	chrY	13475896	.	A	C	119.55	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27086	chrY	13475909	.	T	G	217.42	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
27087	chrY	13475910	.	C	A	59.38	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
27088	chrY	13475916	.	A	G	272.19	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
27089	chrY	13475917	.	T	C	150.15	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
27090	chrY	13475919	.	A	G	136.33	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27091	chrY	13475930	.	T	G	165.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27092	chrY	13475937	.	A	G	120.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27093	chrY	13475961	.	A	C	292.38	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27094	chrY	13475965	.	G	A	208.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27095	chrY	13475970	.	T	G	209.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27096	chrY	13475995	.	G	A	41.04	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
27097	chrY	13476129	.	A	G	1296.96	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
27098	chrY	13476136	.	C	T	1378.16	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
27099	chrY	13476140	.	C	A	1466.57	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
27100	chrY	13476155	.	G	C,T	635.08	PASS	AC=4,7;AF=0.061,0.106;AN=66;BaseQ
27101	chrY	13476158	.	A	T	174.75	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27102	chrY	13476162	.	G	T	43.83	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27103	chrY	13476167	.	G	A	1051.18	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
27104	chrY	13476174	.	G	A	644.86	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
27105	chrY	13476178	.	C	A	63.37	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27106	chrY	13476180	.	A	T	43.94	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27107	chrY	13476181	.	A	T	31.84	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
27108	chrY	13476183	.	T	C	1064.99	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
27109	chrY	13476184	.	C	T	181.27	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27110	chrY	13476185	.	C	A	75.96	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27111	chrY	13476187	.	C	A	99.16	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27112	chrY	13476188	.	A	T,G	423.26	PASS	AC=4,2;AF=0.061,0.030;AN=66;BaseQ
27113	chrY	13476191	.	A	C,*	7228.82	PASS	AC=25,1;AF=0.391,0.016;AN=64;Base
27114	chrY	13476192	.	A	C	73.97	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27115	chrY	13476193	.	T	G,C	6927.47	PASS	AC=20,10;AF=0.333,0.167;AN=60;Bas
27116	chrY	13476195	.	G	C	471.95	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27117	chrY	13476198	.	C	G	95.95	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27118	chrY	13476200	.	T	C	171.87	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
27119	chrY	13476202	.	G	C	46.25	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27120	chrY	13476205	.	A	G	38.65	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27121	chrY	13476208	.	G	A	461.74	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
27122	chrY	13476210	.	T	C	171.77	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27123	chrY	13476213	.	C	A	50.77	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
27124	chrY	13476223	.	G	C	159.78	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27125	chrY	13476227	.	T	C	44.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27126	chrY	13476233	.	C	A	89.63	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27127	chrY	13476242	.	G	C	52.60	PASS	AC=2;AF=0.032;AN=62;DP=1755;FS=2.
27128	chrY	13476250	.	G	A	39.77	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27129	chrY	13476251	.	T	C	1103.30	PASS	AC=16;AF=0.421;AN=38;BaseQRankSum=
27130	chrY	13476252	.	C	A	42.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27131	chrY	13476253	.	C	T	55.36	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
27132	chrY	13476266	.	C	G	495.61	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=

27133	chrY	13476267	.	T	C	170.47	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
27134	chrY	13476277	.	G	A	477.54	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
27135	chrY	13476300	.	G	T	114.36	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
27136	chrY	13476405	.	G	A	501.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27137	chrY	13476410	.	C	G	1804.99	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=
27138	chrY	13476439	.	A	T	235.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27139	chrY	13476440	.	G	C	207.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27140	chrY	13476442	.	T	A	30.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27141	chrY	13476450	.	G	A	299.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27142	chrY	13476451	.	C	G	1156.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27143	chrY	13476453	.	G	C	3499.27	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
27144	chrY	13476457	.	G	C,T	1241.85	PASS	AC=9,3;AF=0.129,0.043;AN=70;BaseQ
27145	chrY	13476458	.	T	G	1278.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27146	chrY	13476459	.	T	G	619.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27147	chrY	13476460	.	T	C	3977.16	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
27148	chrY	13476461	.	T	A,G	20910.82	PASS	AC=7,22;AF=0.106,0.333;AN=
27149	chrY	13476462	.	C	T	1052.57	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27150	chrY	13476463	.	T	A	662.82	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
27151	chrY	13476466	.	C	T	4176.73	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
27152	chrY	13476467	.	G	A	5675.67	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
27153	chrY	13476468	.	G	T	2808.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27154	chrY	13476469	.	A	G	1480.65	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27155	chrY	13476472	.	T	C	479.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27156	chrY	13476473	.	C	G	1709.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27157	chrY	13476477	.	G	T,*	2315.39	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
27158	chrY	13476478	.	G	A	2582.40	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27159	chrY	13476480	.	C	A	310.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27160	chrY	13476483	.	C	A	959	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27161	chrY	13476485	.	G	A	6586.67	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
27162	chrY	13476489	.	A	T	2016.45	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27163	chrY	13476491	.	A	G	2088.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27164	chrY	13476494	.	A	C	26954.97	PASS	AC=32;AF=0.471;AN=68;BaseQ
27165	chrY	13476500	.	A	C,G	4734.54	PASS	AC=3,6;AF=0.043,0.086;AN=70;BaseQ
27166	chrY	13476501	.	G	T	2185.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27167	chrY	13476502	.	G	T	8600.75	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
27168	chrY	13476505	.	T	G,A	20073.10	PASS	AC=21,1;AF=0.309,0.015;AN=
27169	chrY	13476510	.	A	T	3377.89	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27170	chrY	13476512	.	C	A	2967.35	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27171	chrY	13476513	.	G	C	3715.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27172	chrY	13476519	.	G	C,T	4002.57	PASS	AC=7,1;AF=0.100,0.014;AN=70;BaseQ
27173	chrY	13476522	.	C	G	2301.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27174	chrY	13476525	.	T	A	3880.90	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27175	chrY	13476527	.	T	G,A	20085.97	PASS	AC=28,2;AF=0.424,0.030;AN=
27176	chrY	13476531	.	T	C	437.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27177	chrY	13476532	.	C	A	673.79	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27178	chrY	13476533	.	A	C,T	32969.58	PASS	AC=30,2;AF=0.455,0.030;AN=
27179	chrY	13476536	.	G	T	2862.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27180	chrY	13476539	.	A	G,C	3333.60	PASS	AC=10,4;AF=0.143,0.057;AN=70;BaseQ
27181	chrY	13476544	.	C	T,A	1954.35	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
27182	chrY	13476546	.	A	T	1704.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27183	chrY	13476549	.	C	T	2613.15	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27184	chrY	13476550	.	C	T	1305.87	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
27185	chrY	13476551	.	G	T	1295.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27186	chrY	13476552	.	G	A,C,T	3029.84	PASS	AC=9,5,1;AF=0.132,0.074,0.015;AN=
27187	chrY	13476553	.	T	C	39547.21	PASS	AC=31;AF=0.484;AN=64;BaseQ
27188	chrY	13476557	.	A	T	35.57	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27189	chrY	13476560	.	G	T	2662.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27190	chrY	13476563	.	G	T	2677.04	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27191	chrY	13476565	.	C	T	667.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27192	chrY	13476567	.	C	T	69.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27193	chrY	13476569	.	C	T	1057.73	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
27194	chrY	13476572	.	T	C,G	462.56	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
27195	chrY	13476573	.	G	A	2877.76	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27196	chrY	13476574	.	T	A	1130.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27197	chrY	13476575	.	T	A	108.16	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27198	chrY	13476578	.	C	A	687.80	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
27199	chrY	13476579	.	G	A	4844.62	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
27200	chrY	13476581	.	A	G	886.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27201	chrY	13476582	.	C	T	3962.47	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
27202	chrY	13476584	.	C	T	199.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27203	chrY	13476585	.	G	T,A	1907.49	PASS	AC=1,6;AF=0.014,0.086;AN=70;BaseQ
27204	chrY	13476586	.	G	A	585.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27205	chrY	13476590	.	T	A	78.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27206	chrY	13476592	.	C	T	54.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27207	chrY	13476593	.	A	G	1084.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27208	chrY	13476594	.	T	A,C	921.51	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ

27209	chrY	13476595	.	C	T,A	1362.56	PASS	AC=8,3;AF=0.114,0.043;AN=70;BaseQ
27210	chrY	13476596	.	G	A	6827.91	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27211	chrY	13476598	.	C	A	297.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27212	chrY	13476599	.	A	T	790.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27213	chrY	13476600	.	G	T	627.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27214	chrY	13476601	.	G	A	690.17	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27215	chrY	13476602	.	C	A	472.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27216	chrY	13476605	.	T	C	1297.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27217	chrY	13476606	.	C	G	515.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27218	chrY	13476608	.	C	T,A	878.73	PASS	AC=4,3;AF=0.059,0.044;AN=68;BaseQ
27219	chrY	13476611	.	C	T,G,*	3032.31	PASS	AC=4,3,6;AF=0.057,0.043,0.086;AN=
27220	chrY	13476612	.	G	T,A	794.38	my_snp_filter	AC=8,2;AF=0.114,0.029;AN=
27221	chrY	13476613	.	G	T	47.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27222	chrY	13476615	.	G	A,T	504.75	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
27223	chrY	13476618	.	G	A	742.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27224	chrY	13476625	.	C	T,G	406.58	my_snp_filter	AC=5,3;AF=0.071,0.043;AN=
27225	chrY	13476631	.	G	A	52.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27226	chrY	13476632	.	G	T	1171.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27227	chrY	13476633	.	G	C	182.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27228	chrY	13476634	.	G	A	277.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27229	chrY	13476637	.	T	C	668.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27230	chrY	13476638	.	C	G	38.89	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27231	chrY	13476639	.	C	G,T	10305.32	PASS	AC=24,1;AF=0.444,0.019;AN=
27232	chrY	13476643	.	T	A	62.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27233	chrY	13476644	.	G	T	1004.03	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27234	chrY	13476645	.	G	C	2151.84	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
27235	chrY	13476647	.	C	A,*	1022.97	PASS	AC=6,3;AF=0.088,0.044;AN=68;BaseQ
27236	chrY	13476653	.	C	T	1409.30	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
27237	chrY	13476654	.	G	A,T	1985.31	my_snp_filter	AC=1,5;AF=0.015,0.076;AN=
27238	chrY	13476655	.	T	G	136.78	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
27239	chrY	13476656	.	G	T,A	1688.34	PASS	AC=7,4;AF=0.103,0.059;AN=68;BaseQ
27240	chrY	13476657	.	G	A	1241.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27241	chrY	13476662	.	A	G,T	11762.29	PASS	AC=22,1;AF=0.393,0.018;AN=
27242	chrY	13476665	.	C	T	756.09	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
27243	chrY	13476666	.	C	G	9372.36	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
27244	chrY	13476668	.	G	C	1704.80	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27245	chrY	13476672	.	C	T	110.17	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27246	chrY	13476673	.	A	C	1794.16	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27247	chrY	13476676	.	A	C,*	5486.18	PASS	AC=17,2;AF=0.315,0.037;AN=54;Base
27248	chrY	13476678	.	C	A,*	2079.32	PASS	AC=9,2;AF=0.136,0.030;AN=66;BaseQ
27249	chrY	13476683	.	C	G,A	1897.20	PASS	AC=6,2;AF=0.100,0.033;AN=60;BaseQ
27250	chrY	13476686	.	T	A	604.50	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
27251	chrY	13476689	.	G	C	2462.36	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
27252	chrY	13476694	.	T	G	82.65	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27253	chrY	13476695	.	G	A	1957.83	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27254	chrY	13476698	.	C	T	1770.74	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
27255	chrY	13476700	.	G	A	624.97	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27256	chrY	13476701	.	G	C	204.47	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27257	chrY	13476705	.	T	C	730.14	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27258	chrY	13476707	.	G	C	378.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27259	chrY	13476708	.	C	T	61.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27260	chrY	13476709	.	G	T	2987.82	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
27261	chrY	13476713	.	G	C	8809.66	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=
27262	chrY	13476714	.	C	A	447.49	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
27263	chrY	13476723	.	C	T	1775.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27264	chrY	13476733	.	C	A	991.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27265	chrY	13476735	.	C	A	1028.09	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27266	chrY	13476736	.	G	A	1301.86	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27267	chrY	13476741	.	G	T	190	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27268	chrY	13476746	.	T	C	1639.07	my_snp_filter	AC=16;AF=0.267;AN=60;Base
27269	chrY	13476759	.	G	A	4313.32	my_snp_filter	AC=15;AF=0.288;AN=52;Base
27270	chrY	13476763	.	T	A	1138.98	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
27271	chrY	13476765	.	C	A	1051.62	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
27272	chrY	13476770	.	A	G	2770.59	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
27273	chrY	13476772	.	A	G	429.76	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
27274	chrY	13476776	.	C	T	862.77	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
27275	chrY	13476783	.	A	C	876.74	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
27276	chrY	13476787	.	T	G	180.58	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27277	chrY	13476793	.	C	G	2836.05	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
27278	chrY	13476794	.	C	A	484.79	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27279	chrY	13476797	.	C	A,*	1265.03	PASS	AC=1,1;AF=0.017,0.017;AN=60;BaseQ
27280	chrY	13476799	.	A	T	3194.87	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
27281	chrY	13476806	.	C	G	379.03	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27282	chrY	13476808	.	A	G	1782.40	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
27283	chrY	13476821	.	T	G	354.36	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
27284	chrY	13476828	.	T	A,G	5259.01	PASS	AC=5,8;AF=0.096,0.154;AN=52;BaseQ

27285	chrY	13476829	.	C	G	77.85	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27286	chrY	13476832	.	G	A	79.77	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
27287	chrY	13476835	.	A	G	999.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27288	chrY	13476836	.	G	A	71.75	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
27289	chrY	13476839	.	C	A	190.85	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27290	chrY	13476842	.	A	G	62.74	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
27291	chrY	13476847	.	G	A	247.65	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27292	chrY	13476853	.	C	G	1390.51	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
27293	chrY	13476856	.	T	A	1321.55	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
27294	chrY	13476860	.	T	C	3044.90	my_snp_filter	AC=17;AF=0.304;AN=56;Base
27295	chrY	13476863	.	T	G,C	3854.57	PASS	AC=16,1;AF=0.296,0.019;AN=54;Base
27296	chrY	13476866	.	A	G	1160.32	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27297	chrY	13476870	.	C	G	868.38	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27298	chrY	13476874	.	A	C	686.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27299	chrY	13476880	.	C	T	487.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27300	chrY	13476882	.	G	A	551.26	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
27301	chrY	13476892	.	C	G	206.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27302	chrY	13476895	.	C	T	572.55	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27303	chrY	13476897	.	A	G	5547.12	PASS	AC=19;AF=0.365;AN=52;BaseQRankSum=
27304	chrY	13476903	.	C	T	974.17	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
27305	chrY	13476910	.	T	C	733.44	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
27306	chrY	13476914	.	G	C	4065.46	my_snp_filter	AC=19;AF=0.365;AN=52;Base
27307	chrY	13476944	.	G	C	38.87	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
27308	chrY	13476946	.	C	A	115.14	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
27309	chrY	13476949	.	T	C	98.94	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
27310	chrY	13477124	.	T	G	355.45	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
27311	chrY	13477127	.	C	A	354.20	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
27312	chrY	13477151	.	A	C	60.76	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
27313	chrY	13477153	.	T	A	73.40	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
27314	chrY	13477154	.	C	G	73.56	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
27315	chrY	13477181	.	A	C	244.99	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
27316	chrY	13477183	.	A	G	225.31	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
27317	chrY	13477185	.	C	G	53.77	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27318	chrY	13477195	.	C	T	173.09	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
27319	chrY	13477196	.	C	T	208.43	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27320	chrY	13477197	.	A	G	257.25	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27321	chrY	13477206	.	C	T	303.45	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
27322	chrY	13477207	.	A	G	499.02	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
27323	chrY	13477213	.	T	C	411.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27324	chrY	13477220	.	T	C	163.07	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
27325	chrY	13477230	.	T	C	2111	PASS	AC=20;AF=0.370;AN=54;BaseQRankSum=
27326	chrY	13477231	.	G	A,T	716.10	PASS	AC=8,4;AF=0.148,0.074;AN=54;BaseQ
27327	chrY	13477233	.	G	A	128.15	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27328	chrY	13477239	.	C	T	107.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27329	chrY	13477240	.	C	T	834.05	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
27330	chrY	13477244	.	T	C	323.50	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
27331	chrY	13477247	.	C	A	484.77	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27332	chrY	13477249	.	A	C	727.26	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
27333	chrY	13477253	.	C	T	107.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27334	chrY	13477258	.	A	G	157.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27335	chrY	13477259	.	G	A	104.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27336	chrY	13477260	.	C	T	600.75	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
27337	chrY	13477263	.	C	A	152.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27338	chrY	13477264	.	C	A	115.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27339	chrY	13477268	.	C	A	31.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27340	chrY	13477269	.	C	A	503.97	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27341	chrY	13477271	.	C	A,T	1419.12	PASS	AC=3,14;AF=0.043,0.200;AN=70;Base
27342	chrY	13477276	.	G	A	1432.25	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
27343	chrY	13477278	.	C	T	37.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27344	chrY	13477279	.	C	T	279.01	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27345	chrY	13477280	.	G	A,T	281.34	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
27346	chrY	13477281	.	G	C	37.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27347	chrY	13477283	.	G	A,T	1664.65	PASS	AC=3,16;AF=0.044,0.235;AN=68;Base
27348	chrY	13477285	.	C	G	140.33	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27349	chrY	13477286	.	G	C	65.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27350	chrY	13477288	.	G	T	369.34	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27351	chrY	13477291	.	C	T	439.65	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27352	chrY	13477294	.	C	T	154.08	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27353	chrY	13477295	.	A	G	1058.72	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
27354	chrY	13477298	.	G	T	65.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27355	chrY	13477301	.	G	T	75.11	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27356	chrY	13477306	.	G	C	69.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27357	chrY	13477311	.	G	A	141.76	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27358	chrY	13477319	.	G	C,*	616.57	PASS	AC=3,3;AF=0.050,0.050;AN=60;BaseQ
27359	chrY	13477321	.	C	T	420.67	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
27360	chrY	13477324	.	A	C	42.72	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=

27361	chrY	13477326	.	G	C	513.67	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
27362	chrY	13477327	.	G	A	334.15	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
27363	chrY	13477330	.	G	A	284.18	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
27364	chrY	13477333	.	C	A	298.48	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
27365	chrY	13477334	.	T	G	188.43	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
27366	chrY	13477336	.	C	A	201.23	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
27367	chrY	13477340	.	G	C	389.70	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
27368	chrY	13477344	.	C	T	49.45	my_snp_filter	AC=2;AF=0.032;AN=62;DP=40
27369	chrY	13477351	.	A	C	154.26	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
27370	chrY	13477362	.	T	C	41.30	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27371	chrY	13477416	.	C	A	65.33	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27372	chrY	13477420	.	G	A	65.35	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27373	chrY	13477422	.	C	A	65.68	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27374	chrY	13477424	.	C	A	67.20	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27375	chrY	13478021	.	C	T	121.14	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27376	chrY	13478025	.	C	T	80.01	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27377	chrY	13478033	.	G	A,T	535.14	PASS	AC=3,4;AF=0.050,0.067;AN=60;BaseQ
27378	chrY	13478034	.	A	G	186.42	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
27379	chrY	13478037	.	G	A	138.80	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27380	chrY	13478040	.	C	A,T	429.62	PASS	AC=1,6;AF=0.016,0.094;AN=64;BaseQ
27381	chrY	13478041	.	T	C	365.36	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
27382	chrY	13478049	.	G	A	44.29	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27383	chrY	13478053	.	A	C	1004.01	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
27384	chrY	13478054	.	G	A	181.12	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27385	chrY	13478064	.	G	A	135.02	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
27386	chrY	13478065	.	C	A	141.88	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27387	chrY	13478066	.	C	T	42.07	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27388	chrY	13478067	.	G	A	635.33	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
27389	chrY	13478071	.	C	T	143.03	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
27390	chrY	13478076	.	T	C	895.64	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
27391	chrY	13478086	.	C	G	64.06	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27392	chrY	13478090	.	C	G	496.36	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27393	chrY	13478092	.	G	C	486.72	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27394	chrY	13478097	.	C	T	570.95	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
27395	chrY	13478098	.	G	A	459.73	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
27396	chrY	13478099	.	C	G	207.87	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
27397	chrY	13478101	.	C	G	496.09	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27398	chrY	13478105	.	C	T	1011.86	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
27399	chrY	13478106	.	G	T	94.33	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27400	chrY	13478109	.	G	T	72.94	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
27401	chrY	13478110	.	C	A	512.47	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
27402	chrY	13478115	.	A	G	4807.55	my_snp_filter	AC=15;AF=0.326;AN=46;BaseQ
27403	chrY	13478117	.	G	A	767.77	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
27404	chrY	13478118	.	C	A	163.58	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27405	chrY	13478122	.	G	T,C	691.56	PASS	AC=3,1;AF=0.058,0.019;AN=52;BaseQ
27406	chrY	13478123	.	G	C	61.59	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
27407	chrY	13478125	.	G	A	74.17	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
27408	chrY	13478128	.	C	A	945.41	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
27409	chrY	13478132	.	C	T	845.09	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
27410	chrY	13478133	.	A	G	3749.33	my_snp_filter	AC=7;AF=0.146;AN=48;BaseQ
27411	chrY	13478134	.	T	C	4055.82	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
27412	chrY	13478135	.	C	A	1034.09	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
27413	chrY	13478137	.	C	A	476.42	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
27414	chrY	13478139	.	T	C	4350.36	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
27415	chrY	13478140	.	G	A,T	739.81	PASS	AC=2,1;AF=0.040,0.020;AN=50;BaseQ
27416	chrY	13478141	.	C	T	1089.08	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
27417	chrY	13478142	.	G	A	177.72	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
27418	chrY	13478144	.	C	A	543.35	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
27419	chrY	13478145	.	C	G	486.87	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
27420	chrY	13478146	.	C	A	93.03	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
27421	chrY	13478148	.	G	A,*	822.02	PASS	AC=1,7;AF=0.019,0.135;AN=52;BaseQ
27422	chrY	13478149	.	G	A	73.13	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
27423	chrY	13478150	.	G	T,A	447.80	PASS	AC=1,1;AF=0.020,0.020;AN=50;BaseQ
27424	chrY	13478153	.	G	T	946.48	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
27425	chrY	13478156	.	C	G	350.64	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
27426	chrY	13478157	.	G	A	1466.92	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
27427	chrY	13478158	.	C	T	4867.38	my_snp_filter	AC=14;AF=0.304;AN=46;BaseQ
27428	chrY	13478159	.	G	A	220.60	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
27429	chrY	13478163	.	G	C	625.99	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
27430	chrY	13478164	.	C	A,T	727.98	PASS	AC=3,2;AF=0.065,0.043;AN=46;BaseQ
27431	chrY	13478165	.	G	T,A	346.61	PASS	AC=1,1;AF=0.022,0.022;AN=46;BaseQ
27432	chrY	13478169	.	G	T	1297	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
27433	chrY	13478170	.	T	G	6560.53	my_snp_filter	AC=14;AF=0.333;AN=42;BaseQ
27434	chrY	13478172	.	C	A	1020.64	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
27435	chrY	13478173	.	C	A,T	1281.84	PASS	AC=9,2;AF=0.167,0.037;AN=54;BaseQ
27436	chrY	13478174	.	G	A	741.65	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=

27437	chrY	13478175	.	G	T	365.55	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
27438	chrY	13478179	.	C	T	887.17	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
27439	chrY	13478182	.	C	G	1081.94	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
27440	chrY	13478187	.	C	G	752.66	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
27441	chrY	13478188	.	A	G	4721.06	PASS	AC=14;AF=0.350;AN=40;BaseQRankSum=
27442	chrY	13478190	.	C	T	1318.48	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
27443	chrY	13478191	.	G	T	912.03	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
27444	chrY	13478192	.	G	T	367.19	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
27445	chrY	13478193	.	G	T	943.52	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
27446	chrY	13478194	.	G	A	138.14	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
27447	chrY	13478195	.	C	A,T	1040.87	PASS	AC=5,4;AF=0.086,0.069;AN=58;BaseQ
27448	chrY	13478197	.	G	T	464.75	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
27449	chrY	13478198	.	C	T	572.11	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
27450	chrY	13478199	.	G	A	1224.79	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
27451	chrY	13478208	.	C	A	1074.09	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
27452	chrY	13478210	.	A	T	290.01	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
27453	chrY	13478211	.	C	A	7773.80	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum=
27454	chrY	13478212	.	G	T	51.68	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
27455	chrY	13478213	.	C	A	204.41	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
27456	chrY	13478214	.	C	T	2235.16	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
27457	chrY	13478215	.	G	A,C	1760.27	PASS	AC=6,1;AF=0.103,0.017;AN=58;BaseQ
27458	chrY	13478217	.	G	A	673.60	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
27459	chrY	13478218	.	G	A	698.45	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
27460	chrY	13478219	.	T	C	7922.58	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
27461	chrY	13478221	.	G	A	256.90	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
27462	chrY	13478222	.	C	T,G	695.73	PASS	AC=4,1;AF=0.069,0.017;AN=58;BaseQ
27463	chrY	13478224	.	C	G,A	1100.39	PASS	AC=3,3;AF=0.052,0.052;AN=58;BaseQ
27464	chrY	13478225	.	C	A	200.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27465	chrY	13478227	.	C	T	729.05	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
27466	chrY	13478228	.	C	T	78.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27467	chrY	13478231	.	G	C	351.90	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27468	chrY	13478232	.	C	A	38.92	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
27469	chrY	13478235	.	G	A	2087.80	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27470	chrY	13478238	.	C	A,T	1112.96	PASS	AC=1,2;AF=0.016,0.032;AN=62;BaseQ
27471	chrY	13478239	.	G	A	218.80	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27472	chrY	13478240	.	C	T	2729.44	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27473	chrY	13478241	.	G	C	1761.02	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
27474	chrY	13478242	.	C	G	2149.88	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
27475	chrY	13478244	.	C	T	356.33	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27476	chrY	13478245	.	C	T,G	632.38	PASS	AC=2,2;AF=0.032,0.032;AN=62;BaseQ
27477	chrY	13478246	.	C	T	4645.78	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
27478	chrY	13478247	.	G	A	664.84	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27479	chrY	13478248	.	G	A	42.50	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
27480	chrY	13478252	.	C	A	50.32	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
27481	chrY	13478256	.	C	T	336.20	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
27482	chrY	13478257	.	G	A	1057.41	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
27483	chrY	13478258	.	A	C	13417.25	PASS	AC=13;AF=0.433;AN=30;BaseQ
27484	chrY	13478259	.	G	C	615.68	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
27485	chrY	13478260	.	T	C,G	1383.36	PASS	AC=3,1;AF=0.068,0.023;AN=44;BaseQ
27486	chrY	13478262	.	G	A	1070.55	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27487	chrY	13478265	.	G	A	1168.30	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
27488	chrY	13478271	.	G	A	235.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27489	chrY	13478275	.	C	A	1515	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27490	chrY	13478278	.	G	T	607.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27491	chrY	13478281	.	A	C	1458.62	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
27492	chrY	13478285	.	G	C,T	6825.78	PASS	AC=10,6;AF=0.294,0.176;AN=34;BaseQ
27493	chrY	13478286	.	G	A	159.34	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
27494	chrY	13478287	.	G	T	171.43	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27495	chrY	13478292	.	T	C	5478.83	PASS	AC=16;AF=0.471;AN=34;BaseQRankSum=
27496	chrY	13478297	.	A	T	62.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27497	chrY	13478298	.	G	T	5007.66	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27498	chrY	13478301	.	G	A	2014.86	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
27499	chrY	13478309	.	A	G	5571.31	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
27500	chrY	13478310	.	G	C	1905.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27501	chrY	13478311	.	C	A	7695.85	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
27502	chrY	13478312	.	C	T,A	2428.55	PASS	AC=8,1;AF=0.118,0.015;AN=68;BaseQ
27503	chrY	13478313	.	G	A	1312.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27504	chrY	13478317	.	C	T	4665.19	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
27505	chrY	13478319	.	C	A	51.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27506	chrY	13478322	.	G	A	61.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27507	chrY	13478324	.	C	G	1736.84	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27508	chrY	13478328	.	A	C	46.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27509	chrY	13478330	.	T	A	538.38	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27510	chrY	13478331	.	C	T	4851.37	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
27511	chrY	13478334	.	C	A,G	1953.56	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQ
27512	chrY	13478337	.	C	T	4661.16	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=

27513	chrY	13478338	.	G	A	2711.01	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
27514	chrY	13478342	.	T	G	1675.10	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
27515	chrY	13478347	.	C	A,*	917.62	PASS	AC=3,2;AF=0.047,0.031;AN=64;BaseQ
27516	chrY	13478348	.	A	T	12931.97	PASS	AC=28;AF=0.583;AN=48;BaseQ
27517	chrY	13478349	.	G	T	374.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27518	chrY	13478350	.	G	A	1038.96	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27519	chrY	13478355	.	G	A	2329.55	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
27520	chrY	13478356	.	C	T	89.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27521	chrY	13478359	.	C	A	40.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27522	chrY	13478362	.	G	A,C	1955.56	PASS	AC=3,4;AF=0.044,0.059;AN=68;BaseQ
27523	chrY	13478363	.	C	A,T	3698.97	PASS	AC=11,4;AF=0.172,0.063;AN=64;BaseQ
27524	chrY	13478364	.	G	A	154.77	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
27525	chrY	13478367	.	C	T	1517.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27526	chrY	13478369	.	C	T,A	1920.20	PASS	AC=5,3;AF=0.081,0.048;AN=62;BaseQ
27527	chrY	13478370	.	G	A,T	3510.94	PASS	AC=5,3;AF=0.078,0.047;AN=64;BaseQ
27528	chrY	13478371	.	G	A	2122.57	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
27529	chrY	13478374	.	T	A	164.71	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
27530	chrY	13478378	.	T	G,A	246.58	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
27531	chrY	13478379	.	G	A	67.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27532	chrY	13478380	.	C	A	1847.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27533	chrY	13478382	.	G	A	104	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27534	chrY	13478384	.	A	G	72.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27535	chrY	13478387	.	A	T,C	10806.62	PASS	AC=18,10;AF=0.375,0.208;A
27536	chrY	13478388	.	G	A	74.13	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27537	chrY	13478389	.	C	A	1232.91	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
27538	chrY	13478391	.	A	T	3668.32	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27539	chrY	13478392	.	C	T,A	2379.51	PASS	AC=13,2;AF=0.191,0.029;AN=68;BaseQ
27540	chrY	13478393	.	C	A	624.50	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
27541	chrY	13478400	.	A	G	103.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27542	chrY	13478404	.	A	C	40.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27543	chrY	13478405	.	C	T	226.98	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27544	chrY	13478409	.	G	A	104.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27545	chrY	13478410	.	G	A	174.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27546	chrY	13478411	.	C	A	211.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27547	chrY	13478412	.	C	T,A	3285.96	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
27548	chrY	13478414	.	C	T	2776.53	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27549	chrY	13478415	.	G	A,T	1488.48	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
27550	chrY	13478417	.	G	A	2257.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27551	chrY	13478418	.	G	C	276.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27552	chrY	13478419	.	G	C,T	373.12	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
27553	chrY	13478422	.	C	A	155.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27554	chrY	13478427	.	G	T	238.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27555	chrY	13478429	.	C	A,T	2967.87	PASS	AC=9,1;AF=0.129,0.014;AN=70;BaseQ
27556	chrY	13478430	.	C	T	81.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27557	chrY	13478431	.	T	G	200.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27558	chrY	13478433	.	G	T	60.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27559	chrY	13478434	.	G	A	93.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27560	chrY	13478436	.	A	C	473.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27561	chrY	13478438	.	A	G	225.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27562	chrY	13478439	.	G	C	347.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27563	chrY	13478442	.	C	T	5872.54	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
27564	chrY	13478443	.	G	A	821.10	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
27565	chrY	13478444	.	C	A,T	1298.14	PASS	AC=5,4;AF=0.078,0.063;AN=64;BaseQ
27566	chrY	13478445	.	G	C,A	9401.57	PASS	AC=22,1;AF=0.379,0.017;AN=58;BaseQ
27567	chrY	13478446	.	T	A	463.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27568	chrY	13478448	.	G	A	1436.47	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
27569	chrY	13478449	.	C	A	113.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27570	chrY	13478455	.	G	T,C	540.93	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
27571	chrY	13478456	.	C	T	124.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27572	chrY	13478457	.	A	T	91.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27573	chrY	13478460	.	C	G	99.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27574	chrY	13478462	.	T	A	217.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27575	chrY	13478463	.	C	G	287.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27576	chrY	13478465	.	G	T	37.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27577	chrY	13478466	.	C	T	1509.12	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27578	chrY	13478467	.	A	G	3331.61	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
27579	chrY	13478468	.	A	G	316.94	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27580	chrY	13478470	.	G	A	548.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27581	chrY	13478473	.	G	T	229.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27582	chrY	13478477	.	A	T	66.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27583	chrY	13478479	.	C	T	525.33	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
27584	chrY	13478480	.	A	G	2510.41	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
27585	chrY	13478483	.	T	C	3466.74	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQ
27586	chrY	13478487	.	G	C	892.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27587	chrY	13478488	.	C	A	53.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27588	chrY	13478497	.	C	T,A	437.99	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ

27589	chrY	13478505	.	T	A,C	1637.04	PASS	AC=4,5;AF=0.074,0.093;AN=54;BaseQ
27590	chrY	13478509	.	T	G	1939.73	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
27591	chrY	13478517	.	A	T	82.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27592	chrY	13478518	.	C	T	1062.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27593	chrY	13478519	.	G	T	508.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27594	chrY	13478520	.	G	T	209.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27595	chrY	13478521	.	G	T	524.91	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27596	chrY	13478524	.	C	T	811.33	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27597	chrY	13478526	.	G	T	174.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27598	chrY	13478527	.	G	T	169.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27599	chrY	13478530	.	G	A	1130.88	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27600	chrY	13478532	.	G	T	471.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27601	chrY	13478534	.	C	T	40.83	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27602	chrY	13478536	.	A	G	2851.88	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
27603	chrY	13478537	.	T	G,A	2188.33	PASS	AC=6,2;AF=0.097,0.032;AN=62;BaseQ
27604	chrY	13478539	.	C	T	202.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27605	chrY	13478544	.	G	A	69.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27606	chrY	13478549	.	T	C	517.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27607	chrY	13478550	.	C	A	162.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27608	chrY	13478556	.	T	C	1133.18	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
27609	chrY	13478569	.	T	G	8900.19	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
27610	chrY	13478573	.	G	T	391.57	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27611	chrY	13478574	.	C	T	94.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27612	chrY	13478582	.	G	T	372.11	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27613	chrY	13478583	.	T	G	8258.53	PASS	AC=24;AF=0.400;AN=60;BaseQRankSum=
27614	chrY	13478586	.	G	T	392.47	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27615	chrY	13478589	.	T	G	282.83	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27616	chrY	13478595	.	C	A	202.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27617	chrY	13478598	.	C	A	1219.13	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27618	chrY	13478599	.	A	G	2054.97	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27619	chrY	13478602	.	C	A	288.66	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27620	chrY	13478603	.	C	T	68.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27621	chrY	13478606	.	C	T	119.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27622	chrY	13478610	.	C	G	197.86	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
27623	chrY	13478611	.	A	G	915.67	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
27624	chrY	13478613	.	A	G	5296.39	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=
27625	chrY	13478614	.	C	G	390.40	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27626	chrY	13478616	.	G	C	133.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27627	chrY	13478619	.	T	C,A	734.72	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
27628	chrY	13478620	.	G	A	50.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27629	chrY	13478635	.	T	C	4397.05	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
27630	chrY	13478636	.	C	T,A	296.13	PASS	AC=2,2;AF=0.030,0.030;AN=66;BaseQ
27631	chrY	13478642	.	T	G	6214.05	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
27632	chrY	13478653	.	G	A	1051.46	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27633	chrY	13478661	.	A	G	2411.06	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
27634	chrY	13478662	.	C	A	1800.75	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
27635	chrY	13478667	.	A	C	3787.57	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=
27636	chrY	13478672	.	C	T	657.16	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
27637	chrY	13478673	.	G	A	444.52	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
27638	chrY	13478687	.	C	T	1377.74	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
27639	chrY	13478701	.	C	T	46.95	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
27640	chrY	13478702	.	T	C	914.02	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
27641	chrY	13478703	.	G	A	38.12	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
27642	chrY	13478711	.	C	A	45.29	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27643	chrY	13478715	.	G	C	80.63	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27644	chrY	13478718	.	G	A	90.73	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
27645	chrY	13478723	.	C	A	707.42	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
27646	chrY	13478734	.	G	T	309.38	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
27647	chrY	13478735	.	C	G	424.86	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
27648	chrY	13478744	.	A	C	502.35	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
27649	chrY	13478754	.	T	A	333.29	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
27650	chrY	13478758	.	C	T	368.53	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27651	chrY	13478767	.	G	A	159.84	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27652	chrY	13478774	.	C	T	337.68	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
27653	chrY	13478796	.	T	C	297.87	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
27654	chrY	13478797	.	A	G	411.50	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
27655	chrY	13478800	.	C	T	148.59	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27656	chrY	13478802	.	G	C	231.43	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27657	chrY	13478804	.	G	C	158.71	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27658	chrY	13478805	.	C	A	245.41	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27659	chrY	13478813	.	C	A	54.14	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27660	chrY	13478821	.	C	A	307.65	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27661	chrY	13478826	.	A	C	661.36	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
27662	chrY	13478830	.	A	C	406.37	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
27663	chrY	13478838	.	G	A	53.57	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
27664	chrY	13478841	.	C	A	266.98	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=

27665	chrY	13478861	.	C	A	217.54	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
27666	chrY	13478863	.	G	C,A	901.34	PASS	AC=4,2;AF=0.091,0.045;AN=44;BaseQ
27667	chrY	13478868	.	A	C	523.66	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
27668	chrY	13478869	.	C	T	744.76	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
27669	chrY	13478880	.	C	T	65.58	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27670	chrY	13478881	.	G	A	104.44	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
27671	chrY	13478883	.	C	G	223.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27672	chrY	13478884	.	C	T	226.94	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27673	chrY	13478887	.	C	T	39.20	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
27674	chrY	13478889	.	A	C	1667.66	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
27675	chrY	13478892	.	T	G	1426.12	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
27676	chrY	13478893	.	G	T	631.63	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
27677	chrY	13478895	.	T	A	284.55	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27678	chrY	13478897	.	G	A	43.47	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27679	chrY	13478901	.	G	C	81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27680	chrY	13478903	.	G	T	96.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27681	chrY	13478904	.	A	T	66.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27682	chrY	13478907	.	A	C	614.05	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
27683	chrY	13478909	.	C	T	116.30	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
27684	chrY	13478910	.	G	T	351.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
27685	chrY	13478911	.	T	C,A	620.28	PASS	AC=3,1;AF=0.050,0.017;AN=60;BaseQ
27686	chrY	13478916	.	C	T	123.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27687	chrY	13478917	.	G	A	68.13	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27688	chrY	13478924	.	C	T	50.53	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27689	chrY	13478929	.	C	A	279.39	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
27690	chrY	13478930	.	T	C,*	1369.69	PASS	AC=7,1;AF=0.152,0.022;AN=46;BaseQ
27691	chrY	13478932	.	T	C	228.60	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
27692	chrY	13478938	.	G	A	62.05	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27693	chrY	13478939	.	T	C	46.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27694	chrY	13478949	.	A	G	513.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27695	chrY	13478950	.	C	A	144.57	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27696	chrY	13478953	.	C	A	76.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27697	chrY	13478955	.	C	A	72.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27698	chrY	13478958	.	C	T	682.73	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
27699	chrY	13478959	.	A	G	1112.69	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
27700	chrY	13478961	.	C	T	591.85	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
27701	chrY	13478962	.	T	G,A	2037.22	PASS	AC=6,8;AF=0.120,0.160;AN=50;BaseQ
27702	chrY	13478964	.	C	T	464.75	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27703	chrY	13478966	.	C	T	443.36	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27704	chrY	13478967	.	G	A	128.08	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27705	chrY	13478969	.	T	C	2816.78	PASS	AC=13;AF=0.283;AN=46;BaseQRankSum=
27706	chrY	13478970	.	T	C	67.69	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27707	chrY	13478971	.	C	A	121.74	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27708	chrY	13478975	.	T	C	55.15	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
27709	chrY	13478976	.	G	T	99.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27710	chrY	13478977	.	C	T	1743.76	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
27711	chrY	13478978	.	G	A	146.22	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27712	chrY	13478979	.	C	T	624.05	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27713	chrY	13478983	.	C	T,A	699.43	PASS	AC=2,3;AF=0.030,0.045;AN=66;BaseQ
27714	chrY	13478984	.	G	A,T	816.61	PASS	AC=3,3;AF=0.044,0.044;AN=68;BaseQ
27715	chrY	13478985	.	C	T	702.47	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27716	chrY	13478986	.	G	A	187.66	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27717	chrY	13478987	.	C	A	386.72	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27718	chrY	13478988	.	C	A	228.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27719	chrY	13478990	.	C	G	136.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27720	chrY	13478991	.	C	A	447.22	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27721	chrY	13478992	.	G	A	191.09	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
27722	chrY	13478995	.	G	A,*	354.82	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
27723	chrY	13478998	.	G	A,T	306.65	PASS	AC=1,1;AF=0.021,0.021;AN=48;BaseQ
27724	chrY	13479000	.	C	G	123.80	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27725	chrY	13479002	.	C	T	257.01	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
27726	chrY	13479003	.	G	A,T	769.87	PASS	AC=3,1;AF=0.050,0.017;AN=60;BaseQ
27727	chrY	13479004	.	C	T	203.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27728	chrY	13479005	.	C	G	140.35	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27729	chrY	13479007	.	G	A,C	433.05	PASS	AC=3,1;AF=0.044,0.015;AN=68;BaseQ
27730	chrY	13479012	.	C	A	182.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27731	chrY	13479014	.	T	C	45.57	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
27732	chrY	13479016	.	G	C,A	3669.41	PASS	AC=10,1;AF=0.357,0.036;AN=28;Base
27733	chrY	13479018	.	G	A	122.78	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
27734	chrY	13479023	.	C	A	222.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27735	chrY	13479027	.	C	A	122.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27736	chrY	13479028	.	T	C	122.46	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
27737	chrY	13479029	.	C	G	4563.07	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum=
27738	chrY	13479031	.	C	G	231.04	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27739	chrY	13479040	.	G	A	826.93	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27740	chrY	13479041	.	T	C	2942.49	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=

27741	chrY	13479042	.	G	C	223.66	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
27742	chrY	13479043	.	C	G	398.09	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
27743	chrY	13479044	.	C	A	365.52	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
27744	chrY	13479048	.	A	C,G	5425.78	PASS	AC=10,1;AF=0.357,0.036;AN=28;BaseQ
27745	chrY	13479049	.	G	A	123.02	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
27746	chrY	13479051	.	C	T	217.57	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
27747	chrY	13479052	.	A	G	3350.69	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
27748	chrY	13479053	.	G	A	45.86	PASS	AC=2;AF=0.029;AN=68;DP=3837;FS=0.
27749	chrY	13479056	.	C	T	1546.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27750	chrY	13479057	.	G	A,T	356.78	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
27751	chrY	13479058	.	C	G	243.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27752	chrY	13479062	.	C	A	1369.04	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27753	chrY	13479063	.	C	T,A,G	1349.30	PASS	AC=4,2,2;AF=0.057,0.029,0.029;AN=
27754	chrY	13479064	.	T	G	131.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27755	chrY	13479068	.	G	C,T	1747.96	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
27756	chrY	13479070	.	T	C	431.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27757	chrY	13479071	.	C	T,G	496.07	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
27758	chrY	13479073	.	C	A	886.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27759	chrY	13479077	.	G	C	85.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27760	chrY	13479079	.	C	T	2543.11	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27761	chrY	13479080	.	G	A	1739.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
27762	chrY	13479081	.	G	T,A	826.34	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
27763	chrY	13479082	.	C	A,T	851.60	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
27764	chrY	13479083	.	C	T	269.09	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27765	chrY	13479085	.	C	T	396.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27766	chrY	13479090	.	C	T,G	1606.02	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
27767	chrY	13479093	.	G	T	33.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27768	chrY	13479094	.	A	T	43.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27769	chrY	13479095	.	C	T	3671.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27770	chrY	13479098	.	G	T	837.38	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27771	chrY	13479099	.	C	T	177.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27772	chrY	13479100	.	G	A,C	784.93	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
27773	chrY	13479101	.	C	T	543.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27774	chrY	13479102	.	T	C,A,G	936.23	PASS	AC=2,4,1;AF=0.029,0.057,0.014;AN=
27775	chrY	13479103	.	C	T	195.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27776	chrY	13479108	.	C	A,G	6605.04	PASS	AC=21,3;AF=0.300,0.043;AN=70;BaseQ
27777	chrY	13479109	.	G	A	331.45	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27778	chrY	13479111	.	A	T	57.73	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
27779	chrY	13479112	.	C	T	3047.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27780	chrY	13479113	.	C	T	90.39	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
27781	chrY	13479114	.	A	C	17582.55	PASS	AC=26;AF=0.448;AN=58;BaseQ
27782	chrY	13479115	.	C	T	790.99	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
27783	chrY	13479116	.	G	A	407.06	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
27784	chrY	13479117	.	G	A	63.67	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
27785	chrY	13479120	.	A	G	7806.92	PASS	AC=19;AF=0.396;AN=48;BaseQRankSum=
27786	chrY	13479121	.	T	A	13190.79	PASS	AC=29;AF=0.500;AN=58;BaseQ
27787	chrY	13479125	.	G	T	3073.08	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27788	chrY	13479126	.	C	A,T	486.09	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
27789	chrY	13479129	.	G	A	63.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27790	chrY	13479136	.	T	C,*	2690.13	PASS	AC=12,1;AF=0.273,0.023;AN=44;BaseQ
27791	chrY	13479137	.	G	A	1524.02	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
27792	chrY	13479138	.	C	A,G	3517.92	PASS	AC=5,7;AF=0.081,0.113;AN=62;BaseQ
27793	chrY	13479142	.	A	C	21351.33	PASS	AC=28;AF=0.483;AN=58;BaseQ
27794	chrY	13479144	.	T	C	10702.84	PASS	AC=27;AF=0.386;AN=70;BaseQ
27795	chrY	13479155	.	T	C	10132.20	PASS	AC=25;AF=0.357;AN=70;BaseQ
27796	chrY	13479157	.	G	C,A	2821.54	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
27797	chrY	13479159	.	C	A	678.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27798	chrY	13479161	.	A	G	299.97	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27799	chrY	13479162	.	T	A	1282.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27800	chrY	13479164	.	C	A	65.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27801	chrY	13479165	.	G	A	284.79	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27802	chrY	13479166	.	T	G,A	279.27	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
27803	chrY	13479168	.	A	G	111.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27804	chrY	13479174	.	C	T	1345.30	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27805	chrY	13479175	.	A	G	15002.64	PASS	AC=30;AF=0.429;AN=70;BaseQ
27806	chrY	13479176	.	G	C	1829.67	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27807	chrY	13479188	.	C	G	215.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27808	chrY	13479189	.	C	A	62.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
27809	chrY	13479192	.	C	T	95.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27810	chrY	13479193	.	A	T	168.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27811	chrY	13479195	.	C	T	1126.19	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
27812	chrY	13479198	.	C	G	130.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
27813	chrY	13479199	.	C	T	217.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27814	chrY	13479200	.	G	A	7816.70	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
27815	chrY	13479202	.	C	A	917.58	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
27816	chrY	13479203	.	G	T	499.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

27817	chrY	13479208	.	G	T	13996.75	PASS	AC=29;AF=0.453;AN=64;BaseQRankSum=
27818	chrY	13479209	.	T	C	7357.54	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
27819	chrY	13479210	.	A	C	350.59	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
27820	chrY	13479211	.	G	C,A	7213.43	PASS	AC=14,5;AF=0.206,0.074;AN=68;BaseQRankSum=
27821	chrY	13479215	.	G	A	8918.53	PASS	AC=23;AF=0.383;AN=60;BaseQRankSum=
27822	chrY	13479217	.	G	A	36.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27823	chrY	13479218	.	C	A	1207.81	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
27824	chrY	13479219	.	C	T	42.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27825	chrY	13479222	.	G	C	674.84	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27826	chrY	13479233	.	T	C	5851.02	my_snp_filter	AC=13;AF=0.232;AN=56;BaseQRankSum=
27827	chrY	13479234	.	A	T	170.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27828	chrY	13479249	.	G	A	3395.89	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
27829	chrY	13479250	.	G	A	32.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27830	chrY	13479256	.	G	A	4219.85	my_snp_filter	AC=13;AF=0.260;AN=50;BaseQRankSum=
27831	chrY	13479259	.	T	C	408.49	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27832	chrY	13479262	.	A	G,C	486.52	PASS	AC=2,1;AF=0.043,0.022;AN=46;BaseQRankSum=
27833	chrY	13479266	.	A	C	3822.13	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQRankSum=
27834	chrY	13479274	.	G	C	3810.64	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQRankSum=
27835	chrY	13479281	.	G	T	159.96	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
27836	chrY	13479286	.	G	A	37.85	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
27837	chrY	13479296	.	G	T	1914.79	my_snp_filter	AC=7;AF=0.117;AN=60;BaseQRankSum=
27838	chrY	13479314	.	T	G	9876.76	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQRankSum=
27839	chrY	13479316	.	C	T	9340.97	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQRankSum=
27840	chrY	13479322	.	C	A	143.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27841	chrY	13479365	.	G	T	51.60	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27842	chrY	13479378	.	T	A	47.65	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27843	chrY	13479379	.	A	C,T	3887.70	my_snp_filter	AC=11,2;AF=0.196,0.036;AN=66;BaseQRankSum=
27844	chrY	13479380	.	G	A	39.15	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQRankSum=
27845	chrY	13479388	.	G	C	153.88	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
27846	chrY	13479389	.	T	C	326.93	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27847	chrY	13479393	.	T	C	248.33	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
27848	chrY	13479395	.	G	T	299.11	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27849	chrY	13479402	.	C	G	155.54	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27850	chrY	13479406	.	A	T	400.67	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27851	chrY	13479410	.	C	G	171.17	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
27852	chrY	13479411	.	C	A	379.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
27853	chrY	13479414	.	G	A	529.04	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
27854	chrY	13479421	.	A	G	3667.83	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
27855	chrY	13479425	.	A	C	2486.69	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQRankSum=
27856	chrY	13479428	.	G	T	207.92	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27857	chrY	13479434	.	G	T	304.16	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27858	chrY	13479435	.	G	A	119.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27859	chrY	13479440	.	A	G	84.93	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27860	chrY	13479441	.	T	C	48.15	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
27861	chrY	13479451	.	G	T	330.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27862	chrY	13479452	.	C	A	1944.50	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
27863	chrY	13479456	.	G	T	335.80	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
27864	chrY	13479459	.	T	G	37.93	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
27865	chrY	13479463	.	G	A	304.18	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27866	chrY	13479464	.	A	G	240.83	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27867	chrY	13479468	.	T	G	760.30	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
27868	chrY	13479472	.	A	C	218.08	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27869	chrY	13479476	.	T	A	219.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27870	chrY	13479489	.	C	G	217.52	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
27871	chrY	13479515	.	A	T	122.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27872	chrY	13479518	.	G	A	128.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27873	chrY	13479520	.	C	T	1051.15	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
27874	chrY	13479523	.	G	A	57.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27875	chrY	13479524	.	T	C	80.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27876	chrY	13479527	.	A	C	66.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27877	chrY	13479529	.	G	T,C	216.63	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQRankSum=
27878	chrY	13479531	.	T	A,G	1291.51	PASS	AC=6,5;AF=0.091,0.076;AN=66;BaseQRankSum=
27879	chrY	13479535	.	G	T	35.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
27880	chrY	13479536	.	T	A	82.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
27881	chrY	13479538	.	G	A	65.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27882	chrY	13479540	.	A	G	82.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27883	chrY	13479544	.	C	T	374.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27884	chrY	13479546	.	T	A	77.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
27885	chrY	13479547	.	C	T	92.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
27886	chrY	13479550	.	C	G,T	1307.44	PASS	AC=7,7;AF=0.113,0.113;AN=62;BaseQRankSum=
27887	chrY	13479553	.	G	T	249.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27888	chrY	13479554	.	G	A	61.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
27889	chrY	13479557	.	G	T	54.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
27890	chrY	13479560	.	T	A	55.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
27891	chrY	13479562	.	T	C	248.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27892	chrY	13479565	.	A	T	241.88	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

27893	chrY	13479574	.	T	C	245.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27894	chrY	13479579	.	C	A,*	266.35	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
27895	chrY	13479580	.	T	C,A	3887.62	PASS	AC=22,3;AF=0.314,0.043;AN=70;Base
27896	chrY	13479582	.	G	A	127.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27897	chrY	13479584	.	G	C	31.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27898	chrY	13479585	.	G	T	235.63	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27899	chrY	13479587	.	G	A	271.74	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27900	chrY	13479590	.	C	G	37.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27901	chrY	13479592	.	G	C	34.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27902	chrY	13479593	.	T	A,G	425.18	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQ
27903	chrY	13479595	.	C	A,T	1112.02	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQ
27904	chrY	13479596	.	A	G	256.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27905	chrY	13479604	.	G	C	33.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27906	chrY	13479607	.	A	T	223.13	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27907	chrY	13479608	.	C	T	127.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27908	chrY	13479612	.	G	T	79.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27909	chrY	13479613	.	C	A	121.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27910	chrY	13479615	.	C	A	281.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27911	chrY	13479617	.	T	A,C	349.26	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
27912	chrY	13479618	.	G	A	64.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27913	chrY	13479619	.	T	C	101.94	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27914	chrY	13479620	.	A	C	132.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
27915	chrY	13479621	.	A	G	53.23	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
27916	chrY	13479623	.	C	G	32.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27917	chrY	13479628	.	C	G	320.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27918	chrY	13479632	.	G	C	44.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27919	chrY	13479634	.	C	A	146.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27920	chrY	13479638	.	G	T	61.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27921	chrY	13479663	.	G	C	474.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27922	chrY	13479675	.	A	C	429.12	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
27923	chrY	13479681	.	T	C,*	759.04	PASS	AC=1,3;AF=0.021,0.063;AN=48;BaseQ
27924	chrY	13480066	.	A	G	4172.56	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
27925	chrY	13480082	.	C	A	802.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
27926	chrY	13480087	.	C	A	193.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27927	chrY	13480088	.	C	G	351.08	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27928	chrY	13480091	.	C	T	47.67	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
27929	chrY	13480097	.	C	T	167.04	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
27930	chrY	13480103	.	C	T	52.06	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
27931	chrY	13480106	.	A	G	9884.13	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
27932	chrY	13480108	.	C	G	307.97	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27933	chrY	13480125	.	G	T	329.03	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27934	chrY	13480128	.	T	C	103.71	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27935	chrY	13480133	.	A	C	328.82	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
27936	chrY	13480141	.	G	T,C	841.92	PASS	AC=2,1;AF=0.034,0.017;AN=58;BaseQ
27937	chrY	13480142	.	A	C	116.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
27938	chrY	13480152	.	A	T	135.84	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
27939	chrY	13480155	.	C	A	65.37	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
27940	chrY	13480156	.	C	T	204.61	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
27941	chrY	13480157	.	C	A	128.54	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
27942	chrY	13480158	.	C	T,A	555.37	PASS	AC=2,1;AF=0.053,0.026;AN=38;BaseQ
27943	chrY	13480159	.	G	C	16762.58	my_snp_filter	AC=22;AF=0.688;AN
27944	chrY	13480161	.	C	G,A	2473.17	PASS	AC=13,2;AF=0.310,0.048;AN=42;Base
27945	chrY	13480165	.	G	T,A	411.26	PASS	AC=1,1;AF=0.017,0.017;AN=60;BaseQ
27946	chrY	13480171	.	T	A	76.77	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
27947	chrY	13480172	.	A	G	96.82	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27948	chrY	13480175	.	G	T	52.42	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27949	chrY	13480176	.	A	G	120.07	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27950	chrY	13480183	.	T	A	31.32	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27951	chrY	13480184	.	C	A	180.59	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27952	chrY	13480193	.	T	A	155.57	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27953	chrY	13480196	.	G	A	614.14	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
27954	chrY	13480199	.	A	G	143.27	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27955	chrY	13480209	.	A	T	1607.20	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
27956	chrY	13480210	.	G	T	379.31	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
27957	chrY	13480222	.	T	A	1579.82	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
27958	chrY	13480228	.	T	C,*	13712.88	my_snp_filter	AC=11,2;AF=0.306,
27959	chrY	13480230	.	G	A	262.80	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
27960	chrY	13480233	.	G	C	636.80	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
27961	chrY	13480234	.	G	A	135.77	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
27962	chrY	13480237	.	G	A	81.80	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
27963	chrY	13480240	.	A	T	1454.95	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
27964	chrY	13480242	.	T	G	1128.75	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
27965	chrY	13480246	.	C	G	637.51	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
27966	chrY	13480262	.	T	C	1836.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27967	chrY	13480263	.	A	T	1084	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27968	chrY	13480282	.	G	A,T	1581.09	PASS	AC=14,2;AF=0.500,0.071;AN=28;Base

27969	chrY	13480290	.	A	G	212.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27970	chrY	13480295	.	C	T	186.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27971	chrY	13480310	.	T	A	37.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27972	chrY	13480312	.	G	C	165.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27973	chrY	13480327	.	A	T	95.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27974	chrY	13480341	.	T	C	176.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27975	chrY	13480347	.	G	C	164.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27976	chrY	13480349	.	T	C	58.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27977	chrY	13480351	.	T	C,G	1674.48	PASS	AC=10,2;AF=0.238,0.048;AN=42;Base
27978	chrY	13480352	.	G	C	77.18	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27979	chrY	13480356	.	C	A	375.34	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
27980	chrY	13480361	.	C	A,*	1037.96	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
27981	chrY	13480362	.	C	A	718.81	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
27982	chrY	13480363	.	C	T	139.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27983	chrY	13480364	.	C	T	80.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
27984	chrY	13480368	.	T	C	271.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27985	chrY	13480371	.	G	A	144.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27986	chrY	13480373	.	G	A	187.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27987	chrY	13480376	.	G	A,C	946.43	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
27988	chrY	13480377	.	C	A	803.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
27989	chrY	13480378	.	C	G	57.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
27990	chrY	13480382	.	A	G	119.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
27991	chrY	13480383	.	C	G	127.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27992	chrY	13480385	.	A	T	333.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27993	chrY	13480388	.	G	C	179.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
27994	chrY	13480392	.	C	T	167.81	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
27995	chrY	13480396	.	A	T	58.52	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27996	chrY	13480397	.	C	A	290.55	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
27997	chrY	13480399	.	T	C	55.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
27998	chrY	13480408	.	A	T	53.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
27999	chrY	13480409	.	G	C	59.18	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28000	chrY	13480411	.	G	A	267.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28001	chrY	13480413	.	A	G	46.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28002	chrY	13480414	.	G	C	52.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28003	chrY	13480416	.	G	C	271.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28004	chrY	13480418	.	T	C	974.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28005	chrY	13480420	.	T	C	62.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28006	chrY	13480429	.	G	A,*	251.15	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
28007	chrY	13480432	.	C	G	925.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28008	chrY	13480438	.	G	C	61.27	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28009	chrY	13480439	.	A	G	2971.02	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
28010	chrY	13480440	.	C	G	1020	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
28011	chrY	13480441	.	A	G	275.32	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
28012	chrY	13480442	.	G	T	295.62	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
28013	chrY	13480451	.	C	A	706.87	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28014	chrY	13480452	.	A	T	656.12	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28015	chrY	13480455	.	G	T,A	1482.20	PASS	AC=1,4;AF=0.042,0.167;AN=24;BaseQ
28016	chrY	13480460	.	C	A	991.70	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28017	chrY	13480461	.	A	G	989.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28018	chrY	13480464	.	A	T	572.64	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28019	chrY	13480475	.	C	G	436.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28020	chrY	13480487	.	C	A	2859.95	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
28021	chrY	13480498	.	T	C	3205.15	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
28022	chrY	13480510	.	G	A	225.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28023	chrY	13480528	.	T	C	1608.10	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
28024	chrY	13480536	.	G	T	1178.30	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
28025	chrY	13480545	.	G	T	1105.16	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28026	chrY	13480557	.	A	G	886.10	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
28027	chrY	13480608	.	A	G	69.97	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28028	chrY	13480614	.	T	G	94.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28029	chrY	13480616	.	G	A	571.33	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28030	chrY	13480627	.	C	T	123	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28031	chrY	13480632	.	T	C	3718.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28032	chrY	13480636	.	T	C	4347.38	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
28033	chrY	13480641	.	T	A	7713.40	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
28034	chrY	13480643	.	C	G,A,*	6302.71	PASS	AC=13,4,2;AF=0.217,0.067,0.033;AN
28035	chrY	13480645	.	G	A	380.10	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28036	chrY	13480646	.	C	T	357.43	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28037	chrY	13480654	.	A	T	655.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28038	chrY	13480659	.	C	A	85.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28039	chrY	13480660	.	A	G	4115.05	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
28040	chrY	13480662	.	T	A	2248.82	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
28041	chrY	13480676	.	G	C,A	2270.67	PASS	AC=12,1;AF=0.176,0.015;AN=68;Base
28042	chrY	13480681	.	G	C	864.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28043	chrY	13480685	.	A	C	105.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28044	chrY	13480688	.	G	C	100.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

28045	chrY	13480689	.	A	T	100.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28046	chrY	13480690	.	T	C	1744.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
28047	chrY	13480691	.	A	G	1249.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28048	chrY	13480693	.	G	T	259.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28049	chrY	13480694	.	T	A,C	442.97	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
28050	chrY	13480701	.	G	A	1079.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28051	chrY	13480707	.	A	G	59.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28052	chrY	13480708	.	T	C	139.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28053	chrY	13480711	.	T	G	10322.98	PASS	AC=11;AF=0.190;AN=58;BaseQ
28054	chrY	13480712	.	C	A	801.54	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
28055	chrY	13480717	.	C	T	107.14	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28056	chrY	13480718	.	C	T	174.49	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28057	chrY	13480723	.	C	T	586.83	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28058	chrY	13480731	.	C	T	824.90	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28059	chrY	13480737	.	C	A	445.90	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
28060	chrY	13480739	.	G	A	177.91	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
28061	chrY	13480740	.	A	G,T	8465.76	PASS	AC=7,1;AF=0.167,0.024;AN=42;BaseQ
28062	chrY	13480741	.	G	T	311.25	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28063	chrY	13480744	.	A	C	308.82	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28064	chrY	13480745	.	T	C	834.55	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
28065	chrY	13480746	.	C	G	1058.28	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28066	chrY	13480748	.	G	C	307.80	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28067	chrY	13480752	.	A	T	782.37	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
28068	chrY	13480761	.	C	T	174.64	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
28069	chrY	13480767	.	T	C	827.26	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
28070	chrY	13480768	.	G	T	961.36	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
28071	chrY	13480769	.	C	A	373.21	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
28072	chrY	13480771	.	G	A	980.92	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
28073	chrY	13480773	.	C	T	1354.43	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
28074	chrY	13480774	.	A	C	308.96	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
28075	chrY	13480775	.	A	G	7223.35	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
28076	chrY	13480777	.	A	G	311.77	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28077	chrY	13480780	.	C	T	708.32	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
28078	chrY	13480782	.	G	C	630.10	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28079	chrY	13480785	.	A	G	308.33	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28080	chrY	13480787	.	A	G	565.75	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
28081	chrY	13480788	.	G	A	316.64	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
28082	chrY	13480790	.	C	A	247.34	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
28083	chrY	13480793	.	G	C	265.27	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
28084	chrY	13480796	.	T	C	1487.93	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
28085	chrY	13480798	.	A	G,T	916.22	my_snp_filter	AC=2,2;AF=0.037,0.037;AN=
28086	chrY	13480801	.	T	C	221.34	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
28087	chrY	13480802	.	C	A	742.37	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
28088	chrY	13480804	.	C	A	1509.59	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
28089	chrY	13480805	.	C	T	196.96	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
28090	chrY	13480807	.	G	C	1665.64	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
28091	chrY	13480808	.	C	T	187.30	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
28092	chrY	13480810	.	T	C	309.29	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28093	chrY	13480813	.	T	C	309.38	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28094	chrY	13480816	.	C	T	263.36	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
28095	chrY	13480821	.	G	A	308.31	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28096	chrY	13480822	.	A	T	308.93	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
28097	chrY	13480826	.	A	G	309.11	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28098	chrY	13480827	.	T	A	307.83	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28099	chrY	13480830	.	C	A	1203.74	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
28100	chrY	13480831	.	A	G	703.25	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
28101	chrY	13480832	.	C	A	228.24	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
28102	chrY	13480837	.	C	A	779.04	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
28103	chrY	13480838	.	C	T	1667.21	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
28104	chrY	13480840	.	C	A	313.49	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
28105	chrY	13480842	.	G	T,C	1025.12	my_snp_filter	AC=3,1;AF=0.050,0.017;AN=
28106	chrY	13480844	.	A	G	585.11	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
28107	chrY	13480845	.	G	C	94.48	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28108	chrY	13480851	.	G	A	143.49	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
28109	chrY	13480855	.	A	C	810.63	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
28110	chrY	13480856	.	G	A	692.92	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
28111	chrY	13480858	.	C	A	217.63	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
28112	chrY	13480859	.	A	T	1144.32	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
28113	chrY	13480861	.	G	A	387.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28114	chrY	13480862	.	A	T,G	280.51	my_snp_filter	AC=2,1;AF=0.032,0.016;AN=
28115	chrY	13480863	.	G	T	157.17	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
28116	chrY	13480866	.	C	T	83.91	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28117	chrY	13480867	.	C	T	110.30	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28118	chrY	13480871	.	A	G	304.88	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28119	chrY	13480872	.	C	A	1027.41	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
28120	chrY	13480874	.	T	A	865.63	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ

28121	chrY	13480875	.	G	A	804.72	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
28122	chrY	13480876	.	G	T	113.37	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28123	chrY	13480879	.	G	T	926.91	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
28124	chrY	13480881	.	T	A	41.42	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
28125	chrY	13480882	.	C	G	41.18	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28126	chrY	13480890	.	A	G	862.29	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
28127	chrY	13480891	.	G	A,T	1022.11	my_snp_filter	AC=2,2;AF=0.033,0.033;AN=
28128	chrY	13480895	.	T	C	62.63	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28129	chrY	13480900	.	C	T	906.44	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28130	chrY	13480905	.	C	T	2674.66	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
28131	chrY	13480906	.	C	T	427.79	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28132	chrY	13480907	.	C	A	343.07	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28133	chrY	13480908	.	C	T	1515.67	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28134	chrY	13480911	.	T	G	246.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28135	chrY	13480913	.	T	A	267.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28136	chrY	13480916	.	C	A	1169.31	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
28137	chrY	13480921	.	G	C,A,T	12322.17	PASS	AC=7,1,1;AF=0.152,0.022,0
28138	chrY	13480925	.	G	A,T	375.82	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
28139	chrY	13480927	.	C	T,A	2769.81	PASS	AC=2,6;AF=0.030,0.091;AN=66;BaseQ
28140	chrY	13480930	.	G	A,T	1341.03	PASS	AC=3,2;AF=0.047,0.031;AN=64;BaseQ
28141	chrY	13480931	.	G	A	222.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28142	chrY	13480932	.	G	C,A	227.82	my_snp_filter	AC=2,1;AF=0.029,0.015;AN=
28143	chrY	13480936	.	C	A,T	563.27	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQ
28144	chrY	13480939	.	C	G	654.25	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28145	chrY	13480949	.	A	C,*	246.81	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
28146	chrY	13480951	.	C	A	236.24	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28147	chrY	13480953	.	G	C	89.17	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
28148	chrY	13480955	.	G	A	34.66	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
28149	chrY	13480959	.	A	G	106.37	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
28150	chrY	13480961	.	A	T,*	198.90	PASS	AC=1,1;AF=0.017,0.017;AN=60;BaseQ
28151	chrY	13480965	.	C	G	6739.14	PASS	AC=12;AF=0.261;AN=46;BaseQRankSum=
28152	chrY	13480967	.	C	T	169.47	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28153	chrY	13480972	.	G	A	475.20	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28154	chrY	13480974	.	C	T	206.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28155	chrY	13480977	.	C	T	390.91	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28156	chrY	13480979	.	A	G,T	6644.81	PASS	AC=9,1;AF=0.141,0.016;AN=64;BaseQ
28157	chrY	13480983	.	C	A	418.21	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
28158	chrY	13480984	.	C	T	66.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28159	chrY	13480986	.	G	C	145.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28160	chrY	13480987	.	A	G,*	429.29	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
28161	chrY	13480989	.	T	C	6895.92	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
28162	chrY	13480990	.	C	A,T	292.91	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
28163	chrY	13480991	.	T	C	95.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28164	chrY	13480992	.	A	T	81.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28165	chrY	13480993	.	G	C	301.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28166	chrY	13480994	.	A	T,G	259.74	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
28167	chrY	13480995	.	C	G,T	690.75	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
28168	chrY	13480999	.	A	T,G	1071.56	PASS	AC=3,2;AF=0.044,0.029;AN=68;BaseQ
28169	chrY	13481000	.	G	T	145.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28170	chrY	13481001	.	T	A	90.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28171	chrY	13481003	.	A	T	93.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28172	chrY	13481004	.	C	T	95.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28173	chrY	13481005	.	A	C	78.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28174	chrY	13481007	.	C	G	301.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28175	chrY	13481009	.	G	A	508.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28176	chrY	13481016	.	G	T	141.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28177	chrY	13481021	.	G	T	75.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28178	chrY	13481041	.	G	A	927.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28179	chrY	13481060	.	T	G	298.06	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28180	chrY	13481073	.	T	A	2102.18	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
28181	chrY	13481074	.	T	A	77.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28182	chrY	13481079	.	A	T	1768.48	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
28183	chrY	13481082	.	T	G,A	1154.77	PASS	AC=3,4;AF=0.045,0.061;AN=66;BaseQ
28184	chrY	13481084	.	G	A	45.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28185	chrY	13481089	.	T	G	1703.72	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
28186	chrY	13481092	.	T	A	120.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28187	chrY	13481121	.	C	G	158.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28188	chrY	13481135	.	A	G	416.51	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
28189	chrY	13481138	.	T	A	44.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28190	chrY	13481139	.	T	C	45.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28191	chrY	13481142	.	A	G	34.83	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28192	chrY	13481156	.	G	C	274.73	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
28193	chrY	13481161	.	C	A	46.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28194	chrY	13481164	.	G	T	173.21	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
28195	chrY	13481166	.	A	G	91.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28196	chrY	13481179	.	C	T	74.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

28197	chrY	13481181	.	C	T	92.44	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28198	chrY	13481184	.	G	T	241.22	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
28199	chrY	13481201	.	C	G	125.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28200	chrY	13481218	.	C	A	36.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28201	chrY	13481227	.	A	G	92.49	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
28202	chrY	13481250	.	C	T	42.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28203	chrY	13481308	.	G	T	601.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
28204	chrY	13481312	.	A	T	95.33	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28205	chrY	13481313	.	A	T	105.05	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
28206	chrY	13481342	.	T	A	1260.53	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
28207	chrY	13481355	.	G	T	735.54	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
28208	chrY	13481362	.	C	A	119.86	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28209	chrY	13481363	.	C	A	938.42	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
28210	chrY	13481366	.	G	T	181.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28211	chrY	13481386	.	A	T,C	688.04	PASS	AC=5,1;AF=0.156,0.031;AN=32;BaseQ
28212	chrY	13481395	.	G	T	337.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28213	chrY	13481402	.	C	A	225.68	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28214	chrY	13481403	.	T	A	151.53	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
28215	chrY	13481407	.	A	C	272.87	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
28216	chrY	13481410	.	G	C	60.66	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28217	chrY	13481418	.	T	A	149.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28218	chrY	13481421	.	C	T	40.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28219	chrY	13481423	.	T	A	163.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28220	chrY	13481425	.	G	C	297	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
28221	chrY	13481427	.	T	A	245.03	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
28222	chrY	13481429	.	A	G	40.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28223	chrY	13481431	.	C	A	245.95	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
28224	chrY	13481435	.	G	A	41.75	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28225	chrY	13481438	.	G	A	54.22	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28226	chrY	13481445	.	G	C	41.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28227	chrY	13481449	.	T	C	41.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28228	chrY	13481453	.	C	T	2474.57	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
28229	chrY	13481455	.	C	T	371.15	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
28230	chrY	13481459	.	T	A,*	554.55	PASS	AC=1,1;AF=0.056,0.056;AN=18;BaseQ
28231	chrY	13481461	.	T	A,*	554.55	PASS	AC=1,1;AF=0.056,0.056;AN=18;BaseQ
28232	chrY	13481467	.	A	G	43.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28233	chrY	13481499	.	T	G	4079.96	my_snp_filter	AC=16;AF=0.400;AN=40;BaseQ
28234	chrY	13481504	.	G	A	4115.35	my_snp_filter	AC=15;AF=0.288;AN=52;BaseQ
28235	chrY	13481505	.	C	A	30.96	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28236	chrY	13481507	.	G	A	60.78	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28237	chrY	13481508	.	T	G	4371.50	my_snp_filter	AC=14;AF=0.368;AN=38;BaseQ
28238	chrY	13481514	.	C	T	4287.98	my_snp_filter	AC=15;AF=0.375;AN=40;BaseQ
28239	chrY	13481516	.	C	A	71.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28240	chrY	13481529	.	T	C	45.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28241	chrY	13481556	.	C	G,A	2388.92	my_snp_filter	AC=12,2;AF=0.194,0.032;AN
28242	chrY	13481562	.	G	C	31.05	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28243	chrY	13481573	.	T	C	1927.36	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
28244	chrY	13481577	.	G	A	37.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28245	chrY	13481583	.	T	A	298.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28246	chrY	13481584	.	C	A	446.39	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
28247	chrY	13481585	.	A	C	342.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28248	chrY	13481591	.	C	G	119.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28249	chrY	13481592	.	C	A	40.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28250	chrY	13481593	.	C	T	771.88	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
28251	chrY	13481595	.	T	C	714.79	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
28252	chrY	13481596	.	A	G	679.68	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
28253	chrY	13481603	.	G	C	258.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28254	chrY	13481605	.	G	A	91.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28255	chrY	13481607	.	A	C	524.99	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
28256	chrY	13481613	.	C	A	514.15	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
28257	chrY	13481620	.	A	T	135.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28258	chrY	13481626	.	T	C	718.76	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
28259	chrY	13481630	.	G	A	425.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28260	chrY	13481638	.	C	A	576.07	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
28261	chrY	13481642	.	G	A	209.55	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28262	chrY	13481644	.	A	T	352.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28263	chrY	13481645	.	G	C	130.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28264	chrY	13481650	.	T	G	846.18	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28265	chrY	13481651	.	T	C	302.85	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28266	chrY	13481657	.	C	T	72.40	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28267	chrY	13481665	.	G	T	51.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28268	chrY	13481670	.	C	G	49.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28269	chrY	13481717	.	A	G	96.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28270	chrY	13481723	.	A	C	114.19	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28271	chrY	13481728	.	C	T	111.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28272	chrY	13481732	.	G	C	120.38	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=

28273	chrY	13481835	.	T	C	313.98	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
28274	chrY	13481853	.	A	C	219.39	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
28275	chrY	13481856	.	G	T	285.52	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
28276	chrY	13481860	.	T	A	212.49	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
28277	chrY	13481861	.	C	A	183.20	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
28278	chrY	13481864	.	T	A	174.84	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
28279	chrY	13481892	.	A	G	35.18	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
28280	chrY	13481900	.	G	C	39.48	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
28281	chrY	13481926	.	G	T	43.87	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28282	chrY	13482053	.	C	T	300.78	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28283	chrY	13482085	.	C	A	8476.97	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
28284	chrY	13482100	.	C	T	42.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28285	chrY	13482112	.	G	T	63.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28286	chrY	13482120	.	C	A	334.74	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
28287	chrY	13482125	.	A	T	332.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28288	chrY	13482137	.	G	A	56.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28289	chrY	13482138	.	C	G	699.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28290	chrY	13482139	.	T	G	3687.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28291	chrY	13482140	.	C	A	1750.83	my_snp_filter	AC=11;AF=0.157;AN=70;Base
28292	chrY	13482143	.	G	T	3917.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28293	chrY	13482144	.	T	G	434.36	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
28294	chrY	13482148	.	C	A	538.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28295	chrY	13482149	.	A	C	3823.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28296	chrY	13482150	.	G	A	1993.80	my_snp_filter	AC=11;AF=0.157;AN=70;Base
28297	chrY	13482153	.	C	T	638.60	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
28298	chrY	13482154	.	T	A	1197.16	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28299	chrY	13482161	.	A	T	3633.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28300	chrY	13482163	.	C	T	13125.73	PASS	AC=11;AF=0.157;AN=70;Base
28301	chrY	13482167	.	A	T	113.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28302	chrY	13482171	.	C	A	2484.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
28303	chrY	13482172	.	C	A	5899.76	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
28304	chrY	13482173	.	T	G	976.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28305	chrY	13482175	.	G	C	2968.70	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
28306	chrY	13482176	.	G	A	47.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28307	chrY	13482178	.	G	C	1252.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28308	chrY	13482190	.	T	G	5164.22	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
28309	chrY	13482191	.	G	T	2048.04	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
28310	chrY	13482199	.	A	C	6116	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
28311	chrY	13482204	.	T	C,G	7669.87	PASS	AC=11,3;AF=0.172,0.047;AN=64;Base
28312	chrY	13482205	.	C	A	1118.95	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
28313	chrY	13482207	.	C	A	124.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28314	chrY	13482211	.	A	T	7394.11	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
28315	chrY	13482223	.	A	T	864.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28316	chrY	13482224	.	G	C	82.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28317	chrY	13482226	.	G	C,T	9975.90	PASS	AC=9,3;AF=0.132,0.044;AN=68;BaseQ
28318	chrY	13482227	.	T	A	9882.71	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
28319	chrY	13482231	.	G	C	3620.21	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
28320	chrY	13482235	.	C	G	106.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28321	chrY	13482240	.	C	A	35.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28322	chrY	13482241	.	T	A	74.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28323	chrY	13482242	.	T	C	214.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28324	chrY	13482243	.	G	C	1280.14	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28325	chrY	13482255	.	C	G,A	12180.65	PASS	AC=8,3;AF=0.129,0.048;AN=
28326	chrY	13482257	.	G	A	69.93	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28327	chrY	13482268	.	C	T	930.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
28328	chrY	13482270	.	A	T	1038.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28329	chrY	13482276	.	C	A	709.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28330	chrY	13482286	.	A	G	166.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28331	chrY	13482288	.	C	G	232.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28332	chrY	13482292	.	T	C	207.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28333	chrY	13482297	.	C	T	84.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28334	chrY	13482298	.	A	T	565.77	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28335	chrY	13482308	.	C	A	53.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28336	chrY	13482312	.	G	A	1412.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28337	chrY	13482317	.	T	C	112.23	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28338	chrY	13482319	.	A	C	126.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28339	chrY	13482320	.	G	A	214.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28340	chrY	13482322	.	G	A	100.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28341	chrY	13482323	.	C	T	116.34	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28342	chrY	13482327	.	G	C	2252.43	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
28343	chrY	13482328	.	A	G	1653.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28344	chrY	13482335	.	A	C	78.31	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28345	chrY	13482338	.	A	T	136.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28346	chrY	13482342	.	C	T	196.75	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28347	chrY	13482343	.	C	T	157.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28348	chrY	13482344	.	A	T,C	13369.01	PASS	AC=10,11;AF=0.161,0.177;A

28349	chrY	13482347	.	T	C	201.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28350	chrY	13482351	.	C	T	3479.50	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum
28351	chrY	13482353	.	A	G	17529.52	PASS	AC=20;AF=0.345;AN=58;BaseQ
28352	chrY	13482355	.	T	C	2279.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
28353	chrY	13482357	.	C	A	40.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
28354	chrY	13482360	.	G	T,C	426.43	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
28355	chrY	13482371	.	G	A	747.72	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
28356	chrY	13482373	.	A	C	17545.84	PASS	AC=20;AF=0.333;AN=60;BaseQ
28357	chrY	13482374	.	A	C	171.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28358	chrY	13482375	.	C	G	158.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28359	chrY	13482379	.	G	A	198.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
28360	chrY	13482380	.	G	C	138.93	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28361	chrY	13482384	.	T	G,C	957.03	my_snp_filter	AC=3,5;AF=0.043,0.071;AN=
28362	chrY	13482388	.	T	A	1547.77	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
28363	chrY	13482394	.	G	T	90.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28364	chrY	13482395	.	A	C	119.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28365	chrY	13482396	.	T	A	684.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
28366	chrY	13482401	.	G	C	401.57	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28367	chrY	13482406	.	T	A	819.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
28368	chrY	13482410	.	C	G,T	365.89	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
28369	chrY	13482411	.	G	A	435.11	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28370	chrY	13482412	.	T	C	125.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28371	chrY	13482413	.	G	A	735.06	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
28372	chrY	13482416	.	G	A	138.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28373	chrY	13482417	.	A	G	5874.86	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
28374	chrY	13482420	.	G	A	108.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28375	chrY	13482426	.	A	G,C	471.74	PASS	AC=3,1;AF=0.044,0.015;AN=68;BaseQ
28376	chrY	13482429	.	G	C	3584.92	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
28377	chrY	13482436	.	A	T	9660.65	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
28378	chrY	13482437	.	A	G	167.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
28379	chrY	13482441	.	A	C	6872.55	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
28380	chrY	13482444	.	A	C	6007.91	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
28381	chrY	13482450	.	T	C	114.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
28382	chrY	13482459	.	A	C	119.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
28383	chrY	13482460	.	G	A	73.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28384	chrY	13482461	.	G	C	169.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
28385	chrY	13482463	.	A	G	122.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
28386	chrY	13482467	.	G	A	171.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
28387	chrY	13482476	.	C	A	192.93	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28388	chrY	13482477	.	C	A	235.87	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
28389	chrY	13482482	.	G	A	190.71	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28390	chrY	13482483	.	T	C	54.31	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28391	chrY	13482489	.	G	A	93.84	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
28392	chrY	13482493	.	G	A	359.21	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
28393	chrY	13482495	.	A	C	61.63	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28394	chrY	13482496	.	G	A	74.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
28395	chrY	13482498	.	C	A	77.99	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28396	chrY	13482502	.	A	G	354.81	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
28397	chrY	13482505	.	T	A	140.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
28398	chrY	13482511	.	A	C	5466.15	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum
28399	chrY	13482516	.	G	A	66.83	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
28400	chrY	13482519	.	G	T	194.41	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
28401	chrY	13482520	.	A	T	139.58	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
28402	chrY	13482521	.	A	T	3533.71	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
28403	chrY	13482530	.	A	G	191.02	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
28404	chrY	13482533	.	T	G	107.43	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
28405	chrY	13482536	.	G	T	105.43	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
28406	chrY	13482538	.	C	G	243.45	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
28407	chrY	13482539	.	A	G	2134.15	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
28408	chrY	13482553	.	G	A	74.28	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
28409	chrY	13482562	.	A	G	194.08	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
28410	chrY	13482571	.	T	A	384.06	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum
28411	chrY	13482576	.	T	A	57.06	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum
28412	chrY	13482583	.	G	C	77.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
28413	chrY	13482591	.	G	A	69.32	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum
28414	chrY	13482605	.	G	C	2742.55	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
28415	chrY	13482607	.	C	A	160.83	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
28416	chrY	13482627	.	C	A	68.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
28417	chrY	13482634	.	A	C	68.52	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
28418	chrY	13482646	.	C	T	38.05	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
28419	chrY	13482654	.	T	A	1605.31	my_snp_filter	AC=10;AF=0.172;AN=58;BaseQ
28420	chrY	13482667	.	T	G	108.16	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum
28421	chrY	13482668	.	A	G	83.67	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
28422	chrY	13482670	.	G	A	45.29	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum
28423	chrY	13482671	.	T	C	76.14	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum
28424	chrY	13482674	.	C	G	107.64	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum

28425	chrY	13482677	.	T	C	136.34	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
28426	chrY	13482679	.	C	T	133.37	PASS	AC=1;AF=0.083;AN=12;BaseQRankSum=
28427	chrY	13482688	.	G	C	35.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28428	chrY	13482690	.	A	C	38.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28429	chrY	13482700	.	C	G	39.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28430	chrY	13482723	.	A	T	2225.27	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
28431	chrY	13482734	.	G	T,A	1059.89	PASS	AC=3,5;AF=0.047,0.078;AN=64;BaseQ
28432	chrY	13482742	.	C	T	1020.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28433	chrY	13482744	.	A	T	279.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28434	chrY	13482746	.	G	C	204.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28435	chrY	13482753	.	G	A	596.41	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28436	chrY	13482754	.	T	A	201.20	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28437	chrY	13482756	.	G	T	588.47	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
28438	chrY	13482758	.	T	C,A	2622.44	PASS	AC=9,3;AF=0.136,0.045;AN=66;BaseQ
28439	chrY	13482770	.	A	G	75.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28440	chrY	13482783	.	C	G	421.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28441	chrY	13482786	.	A	C	349.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28442	chrY	13482796	.	T	G	165.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28443	chrY	13482801	.	T	G	466.63	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28444	chrY	13482802	.	G	C	142.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28445	chrY	13482804	.	T	C	58.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28446	chrY	13482806	.	A	C,T	2385.94	PASS	AC=9,7;AF=0.132,0.103;AN=68;BaseQ
28447	chrY	13482808	.	T	G	58.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28448	chrY	13482809	.	C	G	143.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28449	chrY	13482818	.	A	C	3063.85	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
28450	chrY	13482820	.	C	T	52.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28451	chrY	13482823	.	T	G	140.12	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
28452	chrY	13482824	.	G	A	2789.41	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
28453	chrY	13482825	.	G	T	190	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
28454	chrY	13482830	.	A	G	523.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28455	chrY	13482831	.	G	A	524.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28456	chrY	13482838	.	A	G	300.37	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
28457	chrY	13482841	.	G	T	76.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28458	chrY	13482852	.	C	T	543.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28459	chrY	13482862	.	C	A	41.73	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28460	chrY	13482864	.	G	C	31.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28461	chrY	13482865	.	T	G	31.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28462	chrY	13482881	.	A	G	33.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28463	chrY	13482882	.	C	A	227.44	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
28464	chrY	13482887	.	C	T	94.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28465	chrY	13482899	.	G	T	94.89	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28466	chrY	13482926	.	C	T	73.51	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
28467	chrY	13482927	.	A	T	73.11	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
28468	chrY	13482937	.	G	C	68.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28469	chrY	13482939	.	T	A	73.92	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
28470	chrY	13482954	.	C	G	75.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28471	chrY	13482992	.	G	A	189.93	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
28472	chrY	13482993	.	G	A	47.12	PASS	AC=2;AF=0.029;AN=70;DP=2502;FS=0.
28473	chrY	13482994	.	G	A	113.99	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28474	chrY	13482997	.	A	C	105.94	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28475	chrY	13483002	.	T	G	43.40	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28476	chrY	13483012	.	T	G	110.19	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
28477	chrY	13483013	.	T	G	173.59	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28478	chrY	13483023	.	C	A	114.77	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28479	chrY	13483025	.	C	A	173.17	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
28480	chrY	13483028	.	G	A	170.07	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
28481	chrY	13483035	.	G	C	146.03	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28482	chrY	13483037	.	G	C	38.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28483	chrY	13483038	.	A	G	145.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28484	chrY	13483041	.	G	A	143.63	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28485	chrY	13483042	.	G	A	168.72	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
28486	chrY	13483044	.	C	T	144.56	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28487	chrY	13483053	.	C	G	175.14	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28488	chrY	13483054	.	A	T	82.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28489	chrY	13483059	.	T	A,G	647.82	my_snp_filter	AC=2,3;AF=0.034,0.052;AN=
28490	chrY	13483063	.	G	T	467.24	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
28491	chrY	13483070	.	G	C	158.73	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28492	chrY	13483072	.	G	A	397.08	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28493	chrY	13483081	.	A	T	2348.57	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
28494	chrY	13483084	.	T	C	2271.70	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
28495	chrY	13483095	.	T	A	155.78	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
28496	chrY	13483096	.	G	T,A	531.67	PASS	AC=3,3;AF=0.047,0.047;AN=64;BaseQ
28497	chrY	13483101	.	C	T	379.37	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28498	chrY	13483104	.	G	A	720.36	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
28499	chrY	13483109	.	A	G	406.35	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
28500	chrY	13483111	.	A	G	489.38	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=

28501	chrY	13483112	.	T	A	499.58	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
28502	chrY	13483131	.	C	G	794.07	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
28503	chrY	13483139	.	A	G	302.76	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
28504	chrY	13483148	.	A	T	49.08	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28505	chrY	13483159	.	C	A	49.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28506	chrY	13483160	.	A	C	63.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28507	chrY	13483164	.	T	A	44.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28508	chrY	13483175	.	A	T	96.78	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
28509	chrY	13483248	.	C	G	202.84	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
28510	chrY	13483282	.	A	G	61.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28511	chrY	13483283	.	G	T	119.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28512	chrY	13483291	.	A	G	34.20	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28513	chrY	13483292	.	C	G	80.14	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28514	chrY	13483300	.	C	A	1575.33	my_snp_filter	AC=13;AF=0.186;AN=70;Base
28515	chrY	13483301	.	C	T,A	536.47	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
28516	chrY	13483302	.	T	A	97.09	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28517	chrY	13483303	.	G	A	494.44	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28518	chrY	13483304	.	T	C	7098.27	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
28519	chrY	13483305	.	A	G	199.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28520	chrY	13483310	.	A	T	7941.51	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
28521	chrY	13483311	.	A	T	68.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28522	chrY	13483312	.	T	C	151.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28523	chrY	13483313	.	C	A,G	566.45	my_snp_filter	AC=3,4;AF=0.043,0.057;AN=
28524	chrY	13483320	.	A	T	103.46	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28525	chrY	13483322	.	T	C	1194.70	my_snp_filter	AC=11;AF=0.157;AN=70;Base
28526	chrY	13483324	.	G	C	280.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28527	chrY	13483325	.	T	G,A	11562.55	PASS	AC=17,10;AF=0.243,0.143;A
28528	chrY	13483328	.	C	A	89.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28529	chrY	13483329	.	A	C	235.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28530	chrY	13483336	.	G	C	167.03	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28531	chrY	13483338	.	G	C	347.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28532	chrY	13483339	.	T	C,G	10730.65	PASS	AC=18,8;AF=0.257,0.114;AN
28533	chrY	13483340	.	G	T	45.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28534	chrY	13483341	.	A	G	257.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28535	chrY	13483343	.	C	T	80.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28536	chrY	13483344	.	A	C,G	949.46	my_snp_filter	AC=4,2;AF=0.057,0.029;AN=
28537	chrY	13483345	.	G	C,A	9083.14	PASS	AC=26,2;AF=0.371,0.029;AN=70;Base
28538	chrY	13483346	.	T	C	50.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28539	chrY	13483349	.	A	C	357.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28540	chrY	13483351	.	A	T,G	2786.58	my_snp_filter	AC=11,10;AF=0.157,0.143;A
28541	chrY	13483352	.	T	C	135.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28542	chrY	13483354	.	T	C	75.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28543	chrY	13483359	.	C	T	173.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28544	chrY	13483360	.	A	C,G	391.48	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
28545	chrY	13483366	.	C	A	335.01	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28546	chrY	13483369	.	C	T,A	3121.70	my_snp_filter	AC=10,8;AF=0.143,0.114;AN
28547	chrY	13483371	.	T	C,A	1047.18	my_snp_filter	AC=10,1;AF=0.143,0.014;AN
28548	chrY	13483375	.	G	A	2986.54	my_snp_filter	AC=11;AF=0.157;AN=70;Base
28549	chrY	13483376	.	C	T,A	1636.61	my_snp_filter	AC=7,1;AF=0.100,0.014;AN=
28550	chrY	13483378	.	C	A	594.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28551	chrY	13483383	.	T	A	53.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28552	chrY	13483390	.	G	A,*	658.48	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
28553	chrY	13483392	.	G	A	1479.37	my_snp_filter	AC=12;AF=0.171;AN=70;Base
28554	chrY	13483396	.	C	A,T	212.63	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
28555	chrY	13483423	.	A	C	239.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28556	chrY	13483424	.	T	A	376.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28557	chrY	13483431	.	A	G	58.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28558	chrY	13483433	.	G	T	176.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28559	chrY	13483434	.	C	G,T	853.25	PASS	AC=3,6;AF=0.044,0.088;AN=68;BaseQ
28560	chrY	13483436	.	G	C	4164.36	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
28561	chrY	13483437	.	C	T	363.70	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28562	chrY	13483438	.	C	T	80.73	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28563	chrY	13483439	.	A	G	47.81	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28564	chrY	13483440	.	T	C	354.59	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
28565	chrY	13483441	.	A	G	156.54	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28566	chrY	13483444	.	C	A	209.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
28567	chrY	13483445	.	A	T	126.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28568	chrY	13483450	.	C	A	256.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28569	chrY	13483467	.	T	A	481.93	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
28570	chrY	13483472	.	A	G	183.72	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
28571	chrY	13483674	.	C	A	126.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28572	chrY	13483695	.	C	G	11103.19	PASS	AC=12;AF=0.182;AN=66;Base
28573	chrY	13483698	.	T	A	39.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28574	chrY	13483699	.	C	T	42.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28575	chrY	13483704	.	G	A,C	1152.79	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
28576	chrY	13483705	.	C	A,G	1772.67	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ

28577	chrY	13483708	.	C	T	613.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28578	chrY	13483709	.	A	C,G	9640.92	PASS	AC=6,3;AF=0.088,0.044;AN=68;BaseQ
28579	chrY	13483716	.	C	A	83.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28580	chrY	13483717	.	A	G	945.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28581	chrY	13483720	.	G	A	82.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28582	chrY	13483721	.	C	T	86.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28583	chrY	13483722	.	C	A	97.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28584	chrY	13483728	.	A	T	550.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28585	chrY	13483730	.	G	C	86.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28586	chrY	13483731	.	A	T	1319.70	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28587	chrY	13483732	.	G	C	106.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28588	chrY	13483735	.	A	T	415.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28589	chrY	13483756	.	C	A	77.12	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28590	chrY	13483759	.	T	A	1000.21	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
28591	chrY	13483762	.	C	G	922.06	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28592	chrY	13483763	.	T	A	2589.50	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
28593	chrY	13483788	.	A	C	946.06	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28594	chrY	13483789	.	T	C	41.73	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28595	chrY	13483792	.	T	C	139.02	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28596	chrY	13483794	.	C	T	1153.73	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
28597	chrY	13483796	.	G	C	958.44	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28598	chrY	13483811	.	A	C	842.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28599	chrY	13483842	.	A	T	246.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28600	chrY	13483845	.	T	C,A	384.73	my_snp_filter	AC=1,3;AF=0.015,0.044;AN=
28601	chrY	13483854	.	G	C	332.03	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
28602	chrY	13483860	.	A	G	9931.25	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
28603	chrY	13483861	.	C	A	33.03	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28604	chrY	13483862	.	C	A	311.36	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
28605	chrY	13483871	.	A	G	234.79	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
28606	chrY	13483872	.	G	A	300.47	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
28607	chrY	13483878	.	T	G	215.91	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
28608	chrY	13483879	.	T	C	13285.19	PASS	AC=8;AF=0.125;AN=64;BaseQ
28609	chrY	13483886	.	G	A	846.43	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
28610	chrY	13483893	.	G	A	67.61	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28611	chrY	13483896	.	C	A	65.78	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28612	chrY	13483899	.	A	G	127.31	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
28613	chrY	13483904	.	T	C	104.29	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28614	chrY	13483908	.	A	T	220.75	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
28615	chrY	13483917	.	C	A	130.13	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
28616	chrY	13483918	.	G	C	3768.57	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
28617	chrY	13483921	.	A	T	4683.12	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
28618	chrY	13483924	.	G	A	103.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28619	chrY	13483935	.	A	T	92.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28620	chrY	13483936	.	C	G	122.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28621	chrY	13483941	.	G	T	74.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28622	chrY	13483942	.	T	C	78.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28623	chrY	13483953	.	T	C	2246.99	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
28624	chrY	13483954	.	G	A	725.24	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
28625	chrY	13483963	.	T	G	126.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28626	chrY	13483965	.	C	G	690.64	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28627	chrY	13483967	.	G	C	172.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28628	chrY	13483969	.	G	C,T	182.54	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
28629	chrY	13483970	.	A	G	98.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28630	chrY	13483973	.	T	C	768.76	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28631	chrY	13483991	.	C	T	122.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28632	chrY	13483992	.	A	G	256.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28633	chrY	13483994	.	C	T	86.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28634	chrY	13483995	.	G	A	1200.55	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
28635	chrY	13484003	.	A	T	2891.63	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
28636	chrY	13484007	.	C	A	2924.43	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
28637	chrY	13484008	.	G	A	1332.82	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
28638	chrY	13484017	.	T	C,A	3778.87	PASS	AC=7,3;AF=0.206,0.088;AN=34;BaseQ
28639	chrY	13484024	.	G	T	2049.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28640	chrY	13484029	.	C	T	419.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28641	chrY	13484045	.	G	T	319.37	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
28642	chrY	13484057	.	G	A	2316.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28643	chrY	13484062	.	C	A	65.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28644	chrY	13484067	.	C	A,G	1267.61	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
28645	chrY	13484068	.	C	T	254.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28646	chrY	13484069	.	T	G,C	1339.53	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
28647	chrY	13484073	.	C	G	2539.85	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28648	chrY	13484077	.	A	G	106.63	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28649	chrY	13484079	.	T	C	1153.61	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28650	chrY	13484085	.	T	C,A	16594.61	PASS	AC=15,4;AF=0.288,0.077;AN=
28651	chrY	13484086	.	A	T	417.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28652	chrY	13484087	.	C	A	2721.41	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

28653	chrY	13484089	.	T	G	870.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28654	chrY	13484091	.	G	C	915.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28655	chrY	13484092	.	G	C	135.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28656	chrY	13484095	.	A	G	1239.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28657	chrY	13484102	.	C	T	180.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28658	chrY	13484105	.	A	C	87.76	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28659	chrY	13484106	.	C	G	24677.23	PASS	AC=28;AF=0.483;AN=58;Base
28660	chrY	13484107	.	A	G	1251.90	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28661	chrY	13484109	.	A	G	4935.05	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
28662	chrY	13484111	.	T	C	24958.65	PASS	AC=29;AF=0.483;AN=60;Base
28663	chrY	13484115	.	C	T	7405.41	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
28664	chrY	13484116	.	A	G	7127.69	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
28665	chrY	13484117	.	A	G	7415.02	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
28666	chrY	13484121	.	C	A,G	2205.48	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
28667	chrY	13484122	.	C	A,T	664.06	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
28668	chrY	13484124	.	C	G	221.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28669	chrY	13484133	.	G	A	195.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28670	chrY	13484137	.	C	A	568.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28671	chrY	13484138	.	T	A	321.38	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28672	chrY	13484139	.	A	G	117.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28673	chrY	13484140	.	G	T	162.44	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28674	chrY	13484144	.	A	C	1024.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28675	chrY	13484145	.	G	T	1239.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
28676	chrY	13484160	.	G	C	244.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28677	chrY	13484162	.	T	A	325.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28678	chrY	13484163	.	G	A	66.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28679	chrY	13484166	.	C	A	267.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28680	chrY	13484188	.	T	A	474.19	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
28681	chrY	13484189	.	C	T	782.08	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
28682	chrY	13484190	.	C	T	103.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28683	chrY	13484194	.	T	A	77.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28684	chrY	13484195	.	G	A	419.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28685	chrY	13484204	.	G	T	604.93	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28686	chrY	13484207	.	T	A	621.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28687	chrY	13484214	.	G	C,T	1295.66	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
28688	chrY	13484226	.	A	C,G	3677.10	PASS	AC=9,1;AF=0.132,0.015;AN=68;BaseQ
28689	chrY	13484232	.	G	A	716.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28690	chrY	13484233	.	G	A	4409.46	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
28691	chrY	13484234	.	T	C	89.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28692	chrY	13484235	.	C	T	183.19	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
28693	chrY	13484240	.	C	A	447.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28694	chrY	13484242	.	A	G	3036.87	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
28695	chrY	13484243	.	A	G	579.85	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
28696	chrY	13484247	.	A	G	61.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28697	chrY	13484259	.	T	C,G	467.66	PASS	AC=3,2;AF=0.048,0.032;AN=62;BaseQ
28698	chrY	13484270	.	G	T	152.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28699	chrY	13484277	.	T	G	285.98	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
28700	chrY	13484279	.	C	A	73.16	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
28701	chrY	13484282	.	T	G	217.30	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
28702	chrY	13484382	.	A	G	72.81	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
28703	chrY	13484392	.	T	C	213.63	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
28704	chrY	13484410	.	C	A	1085.63	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
28705	chrY	13484411	.	C	A	103.41	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28706	chrY	13484430	.	C	T	38.60	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28707	chrY	13484433	.	G	T	84.41	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28708	chrY	13484443	.	A	T	1280.65	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
28709	chrY	13484458	.	T	C	329.60	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
28710	chrY	13484591	.	T	G	96.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28711	chrY	13484640	.	T	G	75.17	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
28712	chrY	13484643	.	G	T	31.30	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28713	chrY	13484662	.	C	A	32.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28714	chrY	13484666	.	G	A	100.10	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28715	chrY	13484675	.	C	T	38.57	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28716	chrY	13484778	.	C	T	235.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28717	chrY	13484787	.	A	T	78.55	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
28718	chrY	13484790	.	A	T	248.31	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28719	chrY	13484795	.	T	C	185.46	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
28720	chrY	13484817	.	G	T	93.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28721	chrY	13484827	.	T	G	195.19	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28722	chrY	13484837	.	A	C	367.02	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28723	chrY	13484841	.	T	G	463.48	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
28724	chrY	13484842	.	G	T	259.74	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
28725	chrY	13484846	.	A	T	39.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28726	chrY	13484859	.	C	T	876.70	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
28727	chrY	13484868	.	A	G	105.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28728	chrY	13484873	.	C	A	40.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

28729	chrY	13484877	.	T	A	40.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28730	chrY	13484879	.	G	T	118.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28731	chrY	13484885	.	G	C	71.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28732	chrY	13484886	.	C	G	414.48	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28733	chrY	13484887	.	T	C	93.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28734	chrY	13484890	.	T	G,C	484.07	PASS	AC=1,1;AF=0.016,0.016;AN=64;BaseQ
28735	chrY	13484895	.	C	G	160.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28736	chrY	13484896	.	A	T	327.57	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
28737	chrY	13484897	.	G	T	109.23	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28738	chrY	13484907	.	C	A	93.79	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28739	chrY	13484908	.	T	A	92.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28740	chrY	13484911	.	G	A	51.17	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28741	chrY	13484912	.	C	T	2507.85	PASS	AC=15;AF=0.395;AN=38;BaseQRankSum=
28742	chrY	13484928	.	A	T	507.18	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
28743	chrY	13484932	.	C	A	252.62	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28744	chrY	13484933	.	A	T	142.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28745	chrY	13484935	.	A	G	127.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28746	chrY	13484940	.	C	T	51.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
28747	chrY	13484944	.	A	T	85.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28748	chrY	13484951	.	G	A	205.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28749	chrY	13484955	.	G,8	A,C	1613.64	PASS	AC=6,8;AF=0.125,0.167;AN=48;BaseQ
28750	chrY	13484960	.	C	T,G	774.56	PASS	AC=4,3;AF=0.059,0.044;AN=68;BaseQ
28751	chrY	13484963	.	G	T	241.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28752	chrY	13484964	.	A	T	238.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28753	chrY	13484967	.	C	T	557.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28754	chrY	13484968	.	T	C	573.83	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28755	chrY	13484970	.	T	C	603.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28756	chrY	13484985	.	G	A	977.80	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
28757	chrY	13484992	.	A	C	94.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28758	chrY	13485200	.	C	A	50.58	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28759	chrY	13485208	.	T	A	50.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28760	chrY	13485212	.	C	A	53.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28761	chrY	13485228	.	T	A	93.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28762	chrY	13485254	.	C	T	735.62	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
28763	chrY	13485262	.	T	G	1001.12	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28764	chrY	13485263	.	T	G	1008.65	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
28765	chrY	13485284	.	A	G	931.67	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
28766	chrY	13485327	.	T	G	484.73	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
28767	chrY	13485334	.	T	A	586.07	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
28768	chrY	13485346	.	C	A	540.77	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
28769	chrY	13485358	.	G	C	502.68	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
28770	chrY	13485372	.	G	T	762.43	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28771	chrY	13485376	.	T	C	73.40	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28772	chrY	13485378	.	A	T,G	850.85	PASS	AC=3,2;AF=0.075,0.050;AN=40;BaseQ
28773	chrY	13485416	.	G	A	313.37	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
28774	chrY	13485418	.	A	G	4481.93	my_snp_filter	AC=22;AF=0.579;AN=38;BaseQ
28775	chrY	13485426	.	A	T	218.12	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
28776	chrY	13485436	.	A	T	41.96	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28777	chrY	13485439	.	G	T	45.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28778	chrY	13485442	.	A	G	292.04	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28779	chrY	13485444	.	A	T	81.87	PASS	AC=4;AF=0.069;AN=58;DP=4623;FS=0.
28780	chrY	13485450	.	T	A	77.96	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28781	chrY	13485458	.	A	C	34848.10	my_snp_filter	AC=14;AF=0.412;AN=
28782	chrY	13485460	.	G	C	49.23	PASS	AC=2;AF=0.038;AN=52;DP=3993;FS=0.
28783	chrY	13485461	.	T	A	463.41	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
28784	chrY	13485463	.	C	T	383.42	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
28785	chrY	13485468	.	A	C	441.51	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
28786	chrY	13485477	.	A	C	165.20	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
28787	chrY	13485478	.	A	T	46.68	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
28788	chrY	13485479	.	A	T	22763.04	my_snp_filter	AC=9;AF=0.281;AN=
28789	chrY	13485484	.	C	A	1028.74	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
28790	chrY	13485485	.	C	T	320.64	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
28791	chrY	13485503	.	T	C	12913.38	my_snp_filter	AC=6;AF=0.231;AN=
28792	chrY	13485506	.	G	C	2875.16	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
28793	chrY	13485517	.	T	C	16173.01	PASS	AC=20;AF=0.556;AN=36;BaseQ
28794	chrY	13485521	.	G	A	201.37	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28795	chrY	13485557	.	G	T	59.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28796	chrY	13485566	.	T	A	67.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28797	chrY	13485569	.	A	G	126.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28798	chrY	13485574	.	A	G	197.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28799	chrY	13485577	.	T	G	106.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28800	chrY	13485579	.	C	A	50724.73	PASS	AC=24;AF=0.387;AN=62;BaseQ
28801	chrY	13485586	.	T	C	188.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28802	chrY	13485588	.	G	T,A	254.35	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
28803	chrY	13485589	.	T	A,G	15391.50	PASS	AC=1,18;AF=0.016,0.281;AN=
28804	chrY	13485599	.	C	T	131.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

28805	chrY	13485603	.	G	T,C	446.41	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
28806	chrY	13485607	.	T	G	515.93	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28807	chrY	13485608	.	G	T	361.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28808	chrY	13485613	.	A	G,T	70990.50	PASS	AC=22,1;AF=0.355,0.016;AN
28809	chrY	13485616	.	G	T	80045.21	PASS	AC=21;AF=0.339;AN=62;Base
28810	chrY	13485617	.	C	G	134.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
28811	chrY	13485619	.	C	T	19574.62	PASS	AC=21;AF=0.300;AN=70;Base
28812	chrY	13485624	.	A	T	235.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28813	chrY	13485626	.	G	T	242.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28814	chrY	13485628	.	A	C	77506.52	PASS	AC=22;AF=0.344;AN=64;Base
28815	chrY	13485629	.	G	T	203.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28816	chrY	13485631	.	G	A	765.23	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
28817	chrY	13485637	.	A	C	9513.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
28818	chrY	13485638	.	C	A	13181.29	PASS	AC=7;AF=0.100;AN=70;BaseQ
28819	chrY	13485639	.	A	C	826.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28820	chrY	13485641	.	G	C	587.48	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
28821	chrY	13485646	.	A	T,*	1008.31	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
28822	chrY	13485647	.	C	A,*	713.33	my_snp_filter	AC=1,3;AF=0.014,0.043;AN=
28823	chrY	13485648	.	A	C	342.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28824	chrY	13485649	.	T	A	546.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28825	chrY	13485654	.	T	G,A,*	82185.25	PASS	AC=5,20,1;AF=0.081,0.323,
28826	chrY	13485658	.	T	G,*	647.13	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
28827	chrY	13485663	.	A	C,*	1506.90	PASS	AC=5,5;AF=0.071,0.071;AN=70;BaseQ
28828	chrY	13485664	.	G	A	1487.24	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
28829	chrY	13485665	.	T	C	2230.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28830	chrY	13485666	.	G	A,*	1174.57	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
28831	chrY	13485670	.	A	G,*	1487.37	PASS	AC=9,4;AF=0.129,0.057;AN=70;BaseQ
28832	chrY	13485671	.	T	G	47158.99	PASS	AC=31;AF=0.456;AN=68;Base
28833	chrY	13485675	.	T	A,*	1240.70	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQ
28834	chrY	13485678	.	C	A,*	749.74	PASS	AC=1,6;AF=0.014,0.086;AN=70;BaseQ
28835	chrY	13485685	.	C	T,A,*	59188.62	PASS	AC=19,4,1;AF=0.279,0.059,
28836	chrY	13485686	.	C	G	56524.40	PASS	AC=19;AF=0.306;AN=62;Base
28837	chrY	13485687	.	C	A,*	1017.77	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
28838	chrY	13485688	.	C	T,*	338.87	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
28839	chrY	13485689	.	C	A,T,G	5638.88	PASS	AC=3,3,4;AF=0.043,0.043,0.057;AN=
28840	chrY	13485690	.	T	A	173.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28841	chrY	13485691	.	G	T	126.83	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28842	chrY	13485693	.	A	T,*	1154.33	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
28843	chrY	13485695	.	G	T,*	1333.47	PASS	AC=5,3;AF=0.071,0.043;AN=70;BaseQ
28844	chrY	13485700	.	G	T,A,*	1524.88	PASS	AC=2,4,6;AF=0.029,0.057,0.086;AN=
28845	chrY	13485701	.	C	G,*	6028.26	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQ
28846	chrY	13485707	.	C	G,*	341.69	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
28847	chrY	13485708	.	A	C,*	328.81	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
28848	chrY	13485710	.	G	T,*	1076.28	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
28849	chrY	13485711	.	A	G,*	421.30	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
28850	chrY	13485713	.	T	A,*	487.16	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQ
28851	chrY	13485726	.	G	A	85.98	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28852	chrY	13485733	.	G	A	925.65	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
28853	chrY	13485736	.	C	T	50.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28854	chrY	13485739	.	A	G	749.92	my_snp_filter	AC=10;AF=0.143;AN=70;Base
28855	chrY	13485742	.	T	C	336.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28856	chrY	13485744	.	T	A	49.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28857	chrY	13485756	.	C	T	52.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28858	chrY	13485760	.	T	G	2847.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28859	chrY	13485768	.	A	G	3100.24	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
28860	chrY	13485779	.	T	A	903.99	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
28861	chrY	13485780	.	G	C	201.33	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28862	chrY	13485804	.	C	G	197.92	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
28863	chrY	13485813	.	G	C	176.59	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
28864	chrY	13485817	.	A	C	2112.21	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
28865	chrY	13485819	.	A	G	2031.36	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
28866	chrY	13485843	.	T	C	1021.56	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
28867	chrY	13485845	.	A	T	1002.46	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
28868	chrY	13485854	.	C	T	600.88	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
28869	chrY	13485856	.	G	A	482.67	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
28870	chrY	13485890	.	C	A	170.25	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
28871	chrY	13485893	.	A	C	5153.72	PASS	AC=22;AF=0.579;AN=38;BaseQRankSum=
28872	chrY	13485907	.	C	A	30.31	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28873	chrY	13485908	.	T	A	129.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28874	chrY	13485912	.	C	G	525.51	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
28875	chrY	13485918	.	T	G	36.80	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
28876	chrY	13485927	.	C	A	106.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28877	chrY	13485928	.	T	A	128.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
28878	chrY	13485930	.	G	C	128.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28879	chrY	13485932	.	T	A	130.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28880	chrY	13485934	.	A	T	162.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

28881	chrY	13485936	.	C	A	134.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28882	chrY	13485938	.	G	T	53.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28883	chrY	13485945	.	G	T	90.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28884	chrY	13485960	.	C	T	178.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28885	chrY	13485963	.	C	A	86.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28886	chrY	13485964	.	T	A	200.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28887	chrY	13485966	.	T	A	156.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28888	chrY	13485975	.	C	T	88.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28889	chrY	13485977	.	T	C	44.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28890	chrY	13485984	.	G	C	64.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
28891	chrY	13485996	.	C	T	43.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28892	chrY	13486002	.	G	C,*	239.75	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
28893	chrY	13486004	.	A	T	3179.51	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
28894	chrY	13486005	.	A	C	4269.41	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
28895	chrY	13486013	.	A	G	142.33	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28896	chrY	13486017	.	A	G	180.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28897	chrY	13486018	.	T	C	89.63	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
28898	chrY	13486019	.	A	T,G	1410.33	PASS	AC=3,2;AF=0.075,0.050;AN=40;BaseQ
28899	chrY	13486023	.	C	G	60.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28900	chrY	13486038	.	C	A	155.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28901	chrY	13486048	.	C	A	524.34	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
28902	chrY	13486051	.	A	G	1230.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28903	chrY	13486089	.	C	A	54.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28904	chrY	13486093	.	C	A	401.55	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
28905	chrY	13486117	.	G	C	171.11	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
28906	chrY	13486126	.	T	C	118.98	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
28907	chrY	13486129	.	G	A	73.50	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28908	chrY	13486132	.	T	C	75.68	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28909	chrY	13486155	.	A	G	46.78	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
28910	chrY	13486303	.	T	C	1454.69	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
28911	chrY	13486304	.	C	A	514.25	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
28912	chrY	13486308	.	T	G	120.55	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28913	chrY	13486322	.	A	G	573.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28914	chrY	13486331	.	C	A	76.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28915	chrY	13486332	.	C	A	154.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28916	chrY	13486338	.	G	C	3084.69	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
28917	chrY	13486348	.	G	A	3564.33	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
28918	chrY	13486386	.	A	G	402.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28919	chrY	13486396	.	T	G	4254.84	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQ
28920	chrY	13486398	.	T	C	49.37	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28921	chrY	13486404	.	A	T	523.57	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28922	chrY	13486406	.	C	T	492.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28923	chrY	13486410	.	T	A	4036.31	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
28924	chrY	13486415	.	T	C	4491.31	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
28925	chrY	13486438	.	C	A	342.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28926	chrY	13486442	.	C	T	117.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28927	chrY	13486448	.	G	T	158.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28928	chrY	13486453	.	T	G	2348.36	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
28929	chrY	13486458	.	G	C	90.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28930	chrY	13486460	.	C	G,T	981.39	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
28931	chrY	13486463	.	G	A	331.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28932	chrY	13486465	.	G	T	40.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28933	chrY	13486471	.	T	A	321.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28934	chrY	13486478	.	G	A	53.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28935	chrY	13486479	.	G	T	34.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28936	chrY	13486489	.	C	A	324.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28937	chrY	13486494	.	A	G	290.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28938	chrY	13486498	.	G	A	280.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28939	chrY	13486502	.	T	C	1677.38	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
28940	chrY	13486503	.	T	C	818.36	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
28941	chrY	13486505	.	T	A	80.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28942	chrY	13486511	.	G	A	278.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
28943	chrY	13486515	.	A	G	2438.77	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
28944	chrY	13486530	.	G	A	325.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28945	chrY	13486531	.	C	T	277.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28946	chrY	13486532	.	G	A	215.67	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28947	chrY	13486533	.	T	A	292.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28948	chrY	13486545	.	T	G	1275.11	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
28949	chrY	13486549	.	A	T	192.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28950	chrY	13486555	.	G	T	62.41	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
28951	chrY	13486557	.	G	A	4651.91	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
28952	chrY	13486559	.	A	T	1798.07	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
28953	chrY	13486561	.	A	C	245.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28954	chrY	13486573	.	G	T	327.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28955	chrY	13486574	.	C	T	101.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28956	chrY	13486577	.	C	A	42.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

28957	chrY	13486578	.	C	G	95.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28958	chrY	13486582	.	C	A	1124.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
28959	chrY	13486583	.	A	G	437.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28960	chrY	13486589	.	C	G,T	819.33	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
28961	chrY	13486590	.	C	G	68.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28962	chrY	13486591	.	T	C	754.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28963	chrY	13486593	.	G	C	1296.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
28964	chrY	13486598	.	G	A	973.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28965	chrY	13486599	.	T	A	164.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28966	chrY	13486601	.	T	C	249.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28967	chrY	13486610	.	C	T	238.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28968	chrY	13486612	.	A	G	5333.44	PASS	AC=6;AF=0.375;AN=16;BaseQRankSum=
28969	chrY	13486614	.	G	T	377.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28970	chrY	13486615	.	T	A	626.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
28971	chrY	13486624	.	C	A	94.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28972	chrY	13486627	.	A	C	510.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28973	chrY	13486628	.	A	T	514.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
28974	chrY	13486629	.	A	G	98.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28975	chrY	13486637	.	C	A	217.57	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28976	chrY	13486638	.	A	T	539.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
28977	chrY	13486852	.	A	G	140.53	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
28978	chrY	13486855	.	C	A	154.20	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
28979	chrY	13486856	.	A	C	283.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
28980	chrY	13486866	.	C	A	412.59	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
28981	chrY	13486870	.	A	T	146.95	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
28982	chrY	13486875	.	C	T	111.84	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
28983	chrY	13486876	.	A	G	36.97	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
28984	chrY	13486888	.	T	A	42.86	PASS	AC=1;AF=0.500;AN=2;BaseQRankSum=-
28985	chrY	13487241	.	G	C	618.23	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
28986	chrY	13487243	.	C	G	785.49	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
28987	chrY	13487252	.	G	A	31.27	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
28988	chrY	13487256	.	A	G	32.32	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
28989	chrY	13487258	.	T	C	1474.71	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
28990	chrY	13487272	.	C	G	2359.30	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
28991	chrY	13487273	.	T	G	762.86	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
28992	chrY	13487277	.	G	T	1673.81	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
28993	chrY	13487284	.	C	A	2344.61	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
28994	chrY	13487287	.	T	C	2862.16	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
28995	chrY	13487289	.	G	T	220.58	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
28996	chrY	13487302	.	G	A	170.12	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28997	chrY	13487310	.	T	G	165.02	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
28998	chrY	13487320	.	C	T	31.26	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
28999	chrY	13487321	.	A	G	442.81	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
29000	chrY	13487324	.	C	A	571.30	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
29001	chrY	13487325	.	C	T	579.06	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
29002	chrY	13487326	.	G	A	113.04	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
29003	chrY	13487329	.	C	T	1718.87	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
29004	chrY	13487330	.	A	T	1725.41	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
29005	chrY	13487332	.	A	T	870.47	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
29006	chrY	13487337	.	A	T	31.21	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
29007	chrY	13487340	.	C	T	131.31	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29008	chrY	13487341	.	T	A	99.28	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
29009	chrY	13487342	.	C	T	56.49	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29010	chrY	13487344	.	C	A,T	291.79	PASS	AC=2,1;AF=0.031,0.016;AN=64;BaseQ
29011	chrY	13487347	.	A	T	7495.16	PASS	AC=22;AF=0.367;AN=60;BaseQRankSum=
29012	chrY	13487354	.	G	C	1455.86	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
29013	chrY	13487357	.	T	C	7078.58	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
29014	chrY	13487358	.	A	C	66.55	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
29015	chrY	13487359	.	A	C	6571.55	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
29016	chrY	13487361	.	G	C	40.31	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29017	chrY	13487364	.	A	T	269.05	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29018	chrY	13487367	.	C	T	31.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29019	chrY	13487369	.	T	A	1125.42	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
29020	chrY	13487370	.	C	G	103.86	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29021	chrY	13487371	.	G	A	871.51	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29022	chrY	13487373	.	C	A	2884.83	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
29023	chrY	13487375	.	G	T	277.14	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29024	chrY	13487381	.	C	G	34.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29025	chrY	13487383	.	C	T	50.14	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29026	chrY	13487384	.	G	C	148.72	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29027	chrY	13487386	.	C	T	347.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29028	chrY	13487387	.	G	A	4975.24	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
29029	chrY	13487389	.	A	G	3075.73	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
29030	chrY	13487394	.	C	T	424.93	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29031	chrY	13487398	.	T	A	34.28	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29032	chrY	13487400	.	C	G	444.21	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=

29033	chrY	13487408	.	G	C	496.69	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
29034	chrY	13487413	.	C	T	114.64	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29035	chrY	13487415	.	G	C	5888.22	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
29036	chrY	13487423	.	T	A	3933.08	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
29037	chrY	13487428	.	C	T	66.24	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
29038	chrY	13487429	.	T	G	612.75	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
29039	chrY	13487431	.	A	G	4932	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
29040	chrY	13487440	.	C	T	149.68	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
29041	chrY	13487445	.	G	C	3155.57	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
29042	chrY	13487451	.	C	T	194.42	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
29043	chrY	13487458	.	G	C	105.36	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29044	chrY	13487462	.	T	C,G	2275.19	PASS	AC=7,2;AF=0.113,0.032;AN=62;BaseQ
29045	chrY	13487464	.	C	G	2359.65	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
29046	chrY	13487469	.	A	T	2508.98	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
29047	chrY	13487474	.	C	T	125.39	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29048	chrY	13487475	.	G	A,T	1605.08	PASS	AC=7,1;AF=0.106,0.015;AN=66;BaseQ
29049	chrY	13487488	.	C	T	161.11	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29050	chrY	13487492	.	C	G	722.31	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
29051	chrY	13487494	.	G	A	140.11	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
29052	chrY	13487504	.	T	C	1652.77	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
29053	chrY	13487510	.	T	C	1057.01	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
29054	chrY	13487523	.	G	T	303.53	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
29055	chrY	13487535	.	G	C	395.64	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29056	chrY	13487536	.	A	G	398.77	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29057	chrY	13487537	.	A	C	418.17	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29058	chrY	13487543	.	T	C	213.22	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29059	chrY	13487549	.	T	G	366.68	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29060	chrY	13487561	.	C	G	366.85	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29061	chrY	13487566	.	C	T	328.08	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
29062	chrY	13487572	.	C	T	279.31	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29063	chrY	13487574	.	A	T	814.18	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
29064	chrY	13487578	.	A	T	335.61	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29065	chrY	13487579	.	G	T	364.83	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29066	chrY	13487583	.	A	G	827.55	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
29067	chrY	13487589	.	G	T	872.85	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
29068	chrY	13487605	.	C	G	827.21	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
29069	chrY	13487606	.	T	A	150.49	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29070	chrY	13487612	.	A	C	498.20	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29071	chrY	13487613	.	T	C	71.21	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29072	chrY	13487618	.	G	T	63.29	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
29073	chrY	13487621	.	C	T	240.57	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
29074	chrY	13487628	.	C	T	65.84	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
29075	chrY	13487629	.	A	C	287.97	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
29076	chrY	13487641	.	A	T	414.82	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
29077	chrY	13487677	.	C	G	294.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29078	chrY	13487678	.	C	A	598.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29079	chrY	13487682	.	C	T	259.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29080	chrY	13487683	.	C	A,T	381.60	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
29081	chrY	13487688	.	C	A	828.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29082	chrY	13487689	.	G	T	235.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29083	chrY	13487703	.	A	A,T	281.95	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
29084	chrY	13487704	.	G	A	2728.75	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
29085	chrY	13487705	.	T	A	519.70	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
29086	chrY	13487706	.	C	G	243.06	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29087	chrY	13487710	.	C	A	2323.71	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
29088	chrY	13487712	.	G	A	4328.54	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
29089	chrY	13487714	.	C	T	50.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29090	chrY	13487716	.	C	A	1985.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
29091	chrY	13487717	.	C	A	2683.54	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
29092	chrY	13487719	.	C	A	99.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29093	chrY	13487720	.	C	A	1803.90	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
29094	chrY	13487724	.	A	G,*	804.66	PASS	AC=4,4;AF=0.100,0.100;AN=40;BaseQ
29095	chrY	13487725	.	G	C,T	8996.54	PASS	AC=15,5;AF=0.395,0.132;AN=38;BaseQ
29096	chrY	13487731	.	C	T	106.54	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29097	chrY	13487732	.	C	T	685.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29098	chrY	13487734	.	C	A,T	1176.83	PASS	AC=10,1;AF=0.147,0.015;AN=68;BaseQ
29099	chrY	13487735	.	G	A,T	529.02	PASS	AC=3,2;AF=0.044,0.029;AN=68;BaseQ
29100	chrY	13487738	.	C	G	3360.80	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
29101	chrY	13487743	.	T	C	10374.02	PASS	AC=20;AF=0.526;AN=38;BaseQ
29102	chrY	13487746	.	C	A	294.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29103	chrY	13487750	.	C	A	1052.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29104	chrY	13487752	.	C	A	810.19	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29105	chrY	13487756	.	A	T,*	3119.66	PASS	AC=3,8;AF=0.056,0.148;AN=54;BaseQ
29106	chrY	13487757	.	C	A,*	764.70	PASS	AC=7,1;AF=0.113,0.016;AN=62;BaseQ
29107	chrY	13487758	.	C	T,*	321.36	my_snp_filter	AC=4,1;AF=0.063,0.016;AN=
29108	chrY	13487759	.	C	A,T,*	2530.76	PASS	AC=10,4,2;AF=0.172,0.069,0.034;AN=

29109	chrY	13487761	.	C	T,*	1812.31	PASS	AC=8,2;AF=0.125,0.031;AN=64;BaseQ
29110	chrY	13487762	.	C	G	165.03	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29111	chrY	13487767	.	A	G	3572.41	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
29112	chrY	13487768	.	C	A	87.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29113	chrY	13487771	.	G	A	292.72	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29114	chrY	13487772	.	C	A	200.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29115	chrY	13487773	.	C	T	92.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29116	chrY	13487776	.	G	T,A	2693.60	PASS	AC=7,2;AF=0.100,0.029;AN=70;BaseQ
29117	chrY	13487778	.	C	T	3509.48	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum
29118	chrY	13487779	.	G	C	1714.14	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
29119	chrY	13487780	.	C	A,T	221.06	my_snp_filter	AC=1,1;AF=0.014,0.014;AN
29120	chrY	13487782	.	C	G	183.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29121	chrY	13487788	.	C	A	68.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29122	chrY	13487789	.	C	A	2153.68	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
29123	chrY	13487790	.	C	A	764.93	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29124	chrY	13487791	.	T	C	163.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29125	chrY	13487792	.	T	A	90.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29126	chrY	13487794	.	C	T	5274.93	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
29127	chrY	13487795	.	G	A	1412.36	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
29128	chrY	13487797	.	G	T	1074.53	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
29129	chrY	13487801	.	G	T	346.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29130	chrY	13487802	.	G	A	1105.33	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29131	chrY	13487803	.	G	A	66.32	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29132	chrY	13487804	.	C	T	1514.66	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
29133	chrY	13487805	.	T	G	17427.30	PASS	AC=19;AF=0.452;AN=42;Base
29134	chrY	13487806	.	G	T	1135.30	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
29135	chrY	13487807	.	G	T	201.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29136	chrY	13487808	.	C	T	215.52	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29137	chrY	13487809	.	T	A	403.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29138	chrY	13487814	.	C	T	4345.21	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
29139	chrY	13487815	.	A	T	370.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29140	chrY	13487816	.	G	A	847.80	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29141	chrY	13487817	.	G	T	1543.59	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29142	chrY	13487818	.	G	T	169.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29143	chrY	13487819	.	C	T	773.39	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29144	chrY	13487824	.	A	A,G	1063	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
29145	chrY	13487825	.	G	A	1977.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29146	chrY	13487826	.	C	A	326.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29147	chrY	13487828	.	A	G	84.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29148	chrY	13487831	.	C	A	85.95	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29149	chrY	13487833	.	T	A	1529.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29150	chrY	13487835	.	A	C	271.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29151	chrY	13487838	.	G	T,A	491.67	PASS	AC=4,1;AF=0.061,0.015;AN=66;BaseQ
29152	chrY	13487839	.	G	T,C	967.23	PASS	AC=4,1;AF=0.061,0.015;AN=66;BaseQ
29153	chrY	13487845	.	G	A	1851.73	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29154	chrY	13487846	.	C	A,T	1799.55	PASS	AC=5,4;AF=0.074,0.059;AN=68;BaseQ
29155	chrY	13487849	.	G	T	60.92	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
29156	chrY	13487850	.	T	C	16528.33	PASS	AC=15;AF=0.357;AN=42;Base
29157	chrY	13487853	.	G	A,T	2874.75	PASS	AC=7,1;AF=0.106,0.015;AN=66;BaseQ
29158	chrY	13487855	.	C	A	1063.97	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
29159	chrY	13487857	.	G	C	940.55	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
29160	chrY	13487858	.	T	C	4675.75	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
29161	chrY	13487859	.	G	C	625.01	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29162	chrY	13487867	.	A	G	84.94	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
29163	chrY	13487870	.	G	C,A	7260.26	PASS	AC=2,8;AF=0.037,0.148;AN=54;BaseQ
29164	chrY	13487874	.	C	A	2323.44	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
29165	chrY	13487875	.	T	C	9394.21	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum
29166	chrY	13487876	.	G	A	442.43	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
29167	chrY	13487880	.	G	A	1084.03	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
29168	chrY	13487881	.	C	G	35.13	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
29169	chrY	13487885	.	C	G	2276.26	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
29170	chrY	13487887	.	G	T	2650.71	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
29171	chrY	13487889	.	C	A	352.02	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
29172	chrY	13487890	.	T	C	5574.86	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum
29173	chrY	13487891	.	G	A	364.81	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29174	chrY	13487892	.	G	C	1138.61	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
29175	chrY	13487898	.	C	T	638.55	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29176	chrY	13487902	.	C	G	263.87	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
29177	chrY	13487903	.	T	A	69.83	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
29178	chrY	13487904	.	G	T	259.01	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
29179	chrY	13487906	.	G	C	10864.92	PASS	AC=15;AF=0.341;AN=44;Base
29180	chrY	13487914	.	G	C	637.30	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29181	chrY	13487916	.	C	T	484.90	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29182	chrY	13487917	.	G	T,A	1662.70	PASS	AC=7,2;AF=0.109,0.031;AN=64;BaseQ
29183	chrY	13487918	.	C	G	574.09	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29184	chrY	13487920	.	G	C	1451.43	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=

29185	chrY	13487921	.	T	G	974.36	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
29186	chrY	13487927	.	G	T	1688.96	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29187	chrY	13487929	.	C	A	210.11	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29188	chrY	13487931	.	G	A,C	1776.99	PASS	AC=2,5;AF=0.030,0.076;AN=66;BaseQ
29189	chrY	13487932	.	G	C	1354.68	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29190	chrY	13487935	.	G	A	221.77	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29191	chrY	13487941	.	C	A	1567.40	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29192	chrY	13487943	.	C	T	1611.09	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
29193	chrY	13487948	.	G	A	207.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29194	chrY	13487949	.	C	A	170.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29195	chrY	13487952	.	G	T	247.32	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29196	chrY	13487954	.	C	T	1249.03	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29197	chrY	13487956	.	G	A,C,*	632.10	PASS	AC=2,1,1;AF=0.030,0.015,0.015;AN=
29198	chrY	13487958	.	C	G	634.71	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
29199	chrY	13487959	.	C	T	6802.93	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
29200	chrY	13487960	.	C	T	119.13	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
29201	chrY	13487963	.	T	C	61.84	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
29202	chrY	13487968	.	A	T,C	3781.54	PASS	AC=2,8;AF=0.050,0.200;AN=40;BaseQ
29203	chrY	13487969	.	C	T	565.51	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
29204	chrY	13487971	.	C	T	3504.30	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=
29205	chrY	13487974	.	C	T	81.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29206	chrY	13487975	.	C	T	345.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29207	chrY	13487979	.	C	T,*	2066.99	PASS	AC=7,1;AF=0.152,0.022;AN=46;BaseQ
29208	chrY	13487980	.	A	G	2894.44	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
29209	chrY	13487984	.	A	T	165.19	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29210	chrY	13487989	.	C	T	593.09	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29211	chrY	13487990	.	G	A	1029.71	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29212	chrY	13487992	.	C	T	495.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29213	chrY	13487993	.	T	C	268.85	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29214	chrY	13487994	.	G	A	141.23	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29215	chrY	13487995	.	G	A	141.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29216	chrY	13488000	.	C	T	1074.62	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29217	chrY	13488001	.	C	A	606.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29218	chrY	13488002	.	C	G	145.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29219	chrY	13488004	.	G	T	361.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29220	chrY	13488006	.	G	A	226.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29221	chrY	13488010	.	G	T	660.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29222	chrY	13488013	.	T	C	2159.56	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
29223	chrY	13488017	.	C	T	1460.14	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
29224	chrY	13488019	.	A	T	938.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29225	chrY	13488020	.	C	A	1084.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29226	chrY	13488022	.	A	C	2152.43	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
29227	chrY	13488030	.	C	G,*	1587.28	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
29228	chrY	13488033	.	C	T	1289.88	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
29229	chrY	13488036	.	C	A	135.16	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29230	chrY	13488037	.	C	A	142.13	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29231	chrY	13488041	.	C	T	1110.90	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
29232	chrY	13488042	.	C	G,T	2006.91	my_snp_filter	AC=3,5;AF=0.052,0.086;AN=
29233	chrY	13488043	.	A	G	5445.57	my_snp_filter	AC=13;AF=0.283;AN=46;BaseQ
29234	chrY	13488044	.	C	T,A	2198.60	my_snp_filter	AC=5,5;AF=0.100,0.100;AN=
29235	chrY	13488049	.	G	A,T	1730.51	PASS	AC=8,5;AF=0.121,0.076;AN=66;BaseQ
29236	chrY	13488051	.	C	T	127.38	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
29237	chrY	13488052	.	T	C,A	3272.81	my_snp_filter	AC=10,3;AF=0.192,0.058;AN=
29238	chrY	13488054	.	G	C	125.60	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
29239	chrY	13488056	.	G	T	642.47	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
29240	chrY	13488058	.	C	T	98.79	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
29241	chrY	13488062	.	G	T,A	1467.81	my_snp_filter	AC=3,4;AF=0.044,0.059;AN=
29242	chrY	13488063	.	A	T	99.65	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
29243	chrY	13488068	.	G	A	665.56	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
29244	chrY	13488069	.	G	A	4320.83	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQ
29245	chrY	13488074	.	C	G	3921.36	my_snp_filter	AC=9;AF=0.205;AN=44;BaseQ
29246	chrY	13488079	.	G	A	450.77	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
29247	chrY	13488080	.	T	G	406.99	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
29248	chrY	13488084	.	G	A	178.89	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
29249	chrY	13488085	.	A	T	112.61	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29250	chrY	13488086	.	C	G	139.68	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
29251	chrY	13488088	.	C	T	1441.90	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
29252	chrY	13488094	.	C	G	131.13	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29253	chrY	13488095	.	A	C	142.20	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29254	chrY	13488098	.	G	A	1389.20	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
29255	chrY	13488099	.	C	T	187.93	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29256	chrY	13488100	.	C	G,A	1684.14	my_snp_filter	AC=3,6;AF=0.068,0.136;AN=
29257	chrY	13488103	.	G	A,T	311.97	PASS	AC=3,2;AF=0.058,0.038;AN=52;BaseQ
29258	chrY	13488106	.	C	A	53.28	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
29259	chrY	13488109	.	C	G	259.41	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
29260	chrY	13488112	.	G	T	1249.09	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=

29261	chrY	13488115	.	T	A	160.10	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29262	chrY	13488117	.	C	T	70.12	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
29263	chrY	13488118	.	T	G	160.32	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29264	chrY	13488124	.	C	T,A	385.74	PASS	AC=1,2;AF=0.016,0.032;AN=62;BaseQ
29265	chrY	13488125	.	G	A	398.49	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
29266	chrY	13488130	.	C	A	255.93	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
29267	chrY	13488131	.	C	A	111.04	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
29268	chrY	13488132	.	G	A	505.81	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
29269	chrY	13488134	.	A	T,G	1213.35	PASS	AC=7,1;AF=0.113,0.016;AN=62;BaseQ
29270	chrY	13488137	.	C	T,A	477.24	PASS	AC=3,1;AF=0.048,0.016;AN=62;BaseQ
29271	chrY	13488148	.	A	G	775.91	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
29272	chrY	13488153	.	A	G	260.17	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29273	chrY	13488154	.	G	T	198.45	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29274	chrY	13488156	.	A	T	119.89	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29275	chrY	13488157	.	C	T,G	433.08	PASS	AC=2,1;AF=0.036,0.018;AN=56;BaseQ
29276	chrY	13488158	.	G	T,A	332.08	PASS	AC=4,1;AF=0.071,0.018;AN=56;BaseQ
29277	chrY	13488159	.	G	C	60.05	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29278	chrY	13488163	.	G	A	290.03	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29279	chrY	13488165	.	C	A	271.46	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29280	chrY	13488167	.	A	G,T	425.70	PASS	AC=2,2;AF=0.037,0.037;AN=54;BaseQ
29281	chrY	13488168	.	C	C,T	316.72	PASS	AC=2,2;AF=0.040,0.040;AN=50;BaseQ
29282	chrY	13488169	.	G	A	1306.31	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
29283	chrY	13488170	.	C	A	1500.74	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
29284	chrY	13488172	.	A	G	39.16	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
29285	chrY	13488174	.	C	T	2090.04	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
29286	chrY	13488176	.	A	T,G	1976.34	my_snp_filter	AC=2,6;AF=0.053,0.158;AN=
29287	chrY	13488178	.	A	T	351.55	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
29288	chrY	13488183	.	G	A	570.13	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
29289	chrY	13488186	.	G	T	1584.76	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
29290	chrY	13488187	.	C	T,A	1800.35	PASS	AC=6,1;AF=0.130,0.022;AN=46;BaseQ
29291	chrY	13488188	.	C	G	197.68	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
29292	chrY	13488191	.	G	T	350.41	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
29293	chrY	13488192	.	A	G	1059.89	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQ
29294	chrY	13488202	.	T	C	217.51	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
29295	chrY	13488203	.	G	T	1565.74	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
29296	chrY	13488204	.	G	T	410.88	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
29297	chrY	13488215	.	C	A,G	3622.46	PASS	AC=5,5;AF=0.156,0.156;AN=32;BaseQ
29298	chrY	13488223	.	C	T	543.90	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
29299	chrY	13488224	.	G	A	288.79	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
29300	chrY	13488226	.	C	A	111.50	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
29301	chrY	13488229	.	C	A	289.22	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
29302	chrY	13488235	.	C	G	90.52	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
29303	chrY	13488237	.	G	A	82.47	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
29304	chrY	13488241	.	C	T	218.14	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
29305	chrY	13488242	.	G	A	470.56	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
29306	chrY	13488243	.	G	C	251.66	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
29307	chrY	13488244	.	C	A	513.53	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
29308	chrY	13488245	.	G	C	587.24	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
29309	chrY	13488246	.	G	T,A	592.38	PASS	AC=3,2;AF=0.052,0.034;AN=58;BaseQ
29310	chrY	13488254	.	G	A	1904.18	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
29311	chrY	13488258	.	C	T	76.38	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
29312	chrY	13488259	.	T	C	854.71	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
29313	chrY	13488262	.	C	A	39.50	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
29314	chrY	13488263	.	C	T	34.50	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
29315	chrY	13488264	.	C	T	189.72	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
29316	chrY	13488265	.	G	T,A	868.96	PASS	AC=4,1;AF=0.074,0.019;AN=54;BaseQ
29317	chrY	13488267	.	A	G	3477.74	PASS	AC=10;AF=0.294;AN=34;BaseQRankSum=
29318	chrY	13488271	.	C	T	72.63	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
29319	chrY	13488272	.	G	A	330.94	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
29320	chrY	13488273	.	C	T	329.74	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
29321	chrY	13488274	.	G	A	181.67	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29322	chrY	13488279	.	G	A,T	1144.25	PASS	AC=3,4;AF=0.047,0.063;AN=64;BaseQ
29323	chrY	13488282	.	A	G	426.41	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29324	chrY	13488286	.	G	T	1076.54	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
29325	chrY	13488288	.	C	T	81.61	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
29326	chrY	13488293	.	G	A	271.81	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
29327	chrY	13488297	.	G	A	144.86	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
29328	chrY	13488298	.	C	T	762.10	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
29329	chrY	13488303	.	C	T,*	580.54	PASS	AC=2,1;AF=0.034,0.017;AN=58;BaseQ
29330	chrY	13488304	.	G	A,*	615.69	PASS	AC=3,1;AF=0.052,0.017;AN=58;BaseQ
29331	chrY	13488306	.	G	C,T	1209.44	PASS	AC=8,7;AF=0.174,0.152;AN=46;BaseQ
29332	chrY	13488307	.	G	A	80.91	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
29333	chrY	13488312	.	C	T,A	1520.22	my_snp_filter	AC=7,4;AF=0.113,0.065;AN=
29334	chrY	13488313	.	G	A	70.01	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
29335	chrY	13488330	.	A	G,C	3445.31	PASS	AC=13,1;AF=0.271,0.021;AN=48;Base
29336	chrY	13488337	.	C	T	422.43	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=

29337	chrY	13488338	.	G	A	704.43	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
29338	chrY	13488341	.	C	G	127.54	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
29339	chrY	13488346	.	G	C	44.03	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
29340	chrY	13488355	.	C	T	690.99	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29341	chrY	13488363	.	A	T	176.63	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29342	chrY	13488370	.	G	A	762.72	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
29343	chrY	13488372	.	C	T,A,G	1527.56	PASS	AC=8,1,1;AF=0.133,0.017,0.017;AN=
29344	chrY	13488377	.	G	A	194.57	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
29345	chrY	13488384	.	G	C	264.89	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
29346	chrY	13488385	.	G	C	2691.41	my_snp_filter	AC=11;AF=0.196;AN=56;Base
29347	chrY	13488387	.	G	T	727.88	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29348	chrY	13488388	.	G	T	659.80	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29349	chrY	13488391	.	A	T	134.02	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29350	chrY	13488394	.	G	T	791.01	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
29351	chrY	13488395	.	A	G	591.73	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
29352	chrY	13488399	.	G	T,A	715.25	PASS	AC=5,2;AF=0.076,0.030;AN=66;BaseQ
29353	chrY	13488401	.	G	T	164.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29354	chrY	13488402	.	C	T	474.35	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29355	chrY	13488407	.	C	T	334.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29356	chrY	13488408	.	A	G	604.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29357	chrY	13488410	.	A	T,G	967.59	PASS	AC=11,1;AF=0.177,0.016;AN=62;Base
29358	chrY	13488414	.	C	T	677.02	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29359	chrY	13488419	.	T	G	43.76	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29360	chrY	13488421	.	C	G	44.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29361	chrY	13488429	.	A	G	3798.67	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
29362	chrY	13488435	.	G	T	1033.44	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
29363	chrY	13488439	.	T	C,G	2713.88	PASS	AC=15,2;AF=0.259,0.034;AN=58;Base
29364	chrY	13488440	.	G	A	146.90	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
29365	chrY	13488444	.	G	A	36.13	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
29366	chrY	13488446	.	C	T	48.83	PASS	AC=2;AF=0.030;AN=66;DP=908;FS=0.0
29367	chrY	13488448	.	A	T	47.99	PASS	AC=2;AF=0.030;AN=66;DP=908;FS=0.0
29368	chrY	13488450	.	G	A,T	1294.17	PASS	AC=5,2;AF=0.078,0.031;AN=64;BaseQ
29369	chrY	13488453	.	G	C	3166.84	PASS	AC=15;AF=0.300;AN=50;BaseQRankSum=
29370	chrY	13488454	.	C	T	98.74	PASS	AC=2;AF=0.034;AN=58;DP=827;FS=2.9
29371	chrY	13488456	.	G	T	1025.66	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
29372	chrY	13488459	.	A	T	675.45	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29373	chrY	13488460	.	C	A	206.70	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29374	chrY	13488463	.	G	T	239.41	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
29375	chrY	13488465	.	T	A,*	616.61	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQ
29376	chrY	13488467	.	A	G,T	3491.28	PASS	AC=17,1;AF=0.354,0.021;AN=48;Base
29377	chrY	13488470	.	G	A	231.11	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
29378	chrY	13488473	.	C	A	212.71	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29379	chrY	13488474	.	G	A,T	1083.66	PASS	AC=5,1;AF=0.081,0.016;AN=62;BaseQ
29380	chrY	13488475	.	C	T	493.41	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
29381	chrY	13488477	.	C	T	1218.63	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
29382	chrY	13488478	.	A	A,T	723.51	PASS	AC=2,3;AF=0.033,0.050;AN=60;BaseQ
29383	chrY	13488479	.	C	T	528.20	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29384	chrY	13488480	.	G	A	1223.76	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
29385	chrY	13488481	.	C	T	828.05	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
29386	chrY	13488484	.	T	G,A	2732.87	PASS	AC=15,1;AF=0.313,0.021;AN=48;Base
29387	chrY	13488485	.	C	A	179.97	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29388	chrY	13488487	.	G	A	703.21	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
29389	chrY	13488488	.	G	A	986.66	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29390	chrY	13488490	.	G	A	321.22	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
29391	chrY	13488491	.	G	C,T	1314.95	PASS	AC=5,2;AF=0.083,0.033;AN=60;BaseQ
29392	chrY	13488494	.	T	G	550.54	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
29393	chrY	13488498	.	C	G	70.13	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29394	chrY	13488501	.	A	T,C	3874.62	PASS	AC=2,13;AF=0.048,0.310;AN=42;Base
29395	chrY	13488502	.	G	T,A	2029.06	PASS	AC=5,9;AF=0.100,0.180;AN=50;BaseQ
29396	chrY	13488504	.	G	A	1125.45	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
29397	chrY	13488506	.	C	A	50.13	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29398	chrY	13488510	.	A	C,T	2545.08	PASS	AC=8,8;AF=0.190,0.190;AN=42;BaseQ
29399	chrY	13488511	.	G	A	718.32	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
29400	chrY	13488512	.	G	T	670.53	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
29401	chrY	13488513	.	C	T	1098.86	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
29402	chrY	13488515	.	G	T	505.52	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29403	chrY	13488516	.	G	A	300.87	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
29404	chrY	13488519	.	T	A	610.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29405	chrY	13488527	.	C	A,T	694.08	my_snp_filter	AC=5,3;AF=0.074,0.044;AN=
29406	chrY	13488532	.	T	A	215.48	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29407	chrY	13488535	.	T	A	441.36	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29408	chrY	13488537	.	G	T	562.21	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29409	chrY	13488538	.	G	A	326.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29410	chrY	13488541	.	G	A	1722.28	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
29411	chrY	13488542	.	C	T	78.81	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29412	chrY	13488544	.	T	C	734.83	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=

29413	chrY	13488546	.	C	T	775.35	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
29414	chrY	13488547	.	G	C,A,T	1696.98	PASS	AC=2,4,3;AF=0.032,0.065,0.048;AN=
29415	chrY	13488548	.	C	A	136.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29416	chrY	13488549	.	C	T	88.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29417	chrY	13488555	.	C	T	2116.04	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
29418	chrY	13488556	.	G	A	1706.41	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
29419	chrY	13488557	.	G	A	238.99	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
29420	chrY	13488559	.	G	T	1382.68	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29421	chrY	13488560	.	C	G,T	2168.05	PASS	AC=6,4;AF=0.097,0.065;AN=62;BaseQ
29422	chrY	13488561	.	G	A,T	1504.51	PASS	AC=4,3;AF=0.061,0.045;AN=66;BaseQ
29423	chrY	13488563	.	T	G	7503.87	PASS	AC=20;AF=0.417;AN=48;BaseQRankSum=
29424	chrY	13488569	.	C	T,A	3112.82	my_snp_filter	AC=5,1;AF=0.081,0.016;AN=
29425	chrY	13488570	.	G	A	2146.22	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
29426	chrY	13488571	.	G	C	772.80	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29427	chrY	13488572	.	G	T	378.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29428	chrY	13488574	.	C	T	39.66	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
29429	chrY	13488575	.	T	C	37.74	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
29430	chrY	13488579	.	C	T	798.26	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29431	chrY	13488580	.	A	G	959.49	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29432	chrY	13488584	.	C	A	500.77	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29433	chrY	13488585	.	C	A	573.50	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29434	chrY	13488588	.	C	T	78.87	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
29435	chrY	13488589	.	G	A	575.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29436	chrY	13488593	.	C	T	88.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29437	chrY	13488598	.	A	G	1169.47	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
29438	chrY	13488599	.	C	T	1535.36	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
29439	chrY	13488601	.	A	C	5587.21	PASS	AC=22;AF=0.407;AN=54;BaseQRankSum=
29440	chrY	13488604	.	G	T	50.42	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
29441	chrY	13488606	.	G	T,*	1336.03	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
29442	chrY	13488613	.	C	T	79.64	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29443	chrY	13488614	.	C	T	83.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29444	chrY	13488621	.	A	G,T	7885.86	PASS	AC=20,1;AF=0.476,0.024;AN=42;Base
29445	chrY	13488622	.	G	A	128.71	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
29446	chrY	13488623	.	C	G	1107.38	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
29447	chrY	13488627	.	T	C	8244.45	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
29448	chrY	13488629	.	T	G	30.83	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
29449	chrY	13488632	.	G	T,A	236.33	PASS	AC=1,1;AF=0.015,0.015;AN=66;BaseQ
29450	chrY	13488636	.	G	T	1838.84	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29451	chrY	13488638	.	G	A	59.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29452	chrY	13488640	.	G	T	1936.08	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
29453	chrY	13488641	.	C	T	2162.47	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
29454	chrY	13488642	.	G	C	470.63	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29455	chrY	13488645	.	G	T	95.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29456	chrY	13488647	.	C	T,A	1553.54	PASS	AC=2,3;AF=0.030,0.045;AN=66;BaseQ
29457	chrY	13488648	.	C	T,A,G	1288.49	PASS	AC=1,1,1;AF=0.015,0.015,0.015;AN=
29458	chrY	13488652	.	C	T	1106.33	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29459	chrY	13488654	.	C	T,A	3746.41	PASS	AC=10,3;AF=0.156,0.047;AN=64;Base
29460	chrY	13488655	.	G	A,T	740.51	PASS	AC=4,2;AF=0.059,0.029;AN=68;BaseQ
29461	chrY	13488657	.	G	T,A	164.39	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
29462	chrY	13488660	.	C	G	80.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29463	chrY	13488662	.	A	T	649.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29464	chrY	13488664	.	C	T	692.88	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29465	chrY	13488666	.	C	T	2002.25	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
29466	chrY	13488667	.	A	T	83.82	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29467	chrY	13488669	.	C	A	912.51	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29468	chrY	13488670	.	C	T	37.27	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29469	chrY	13488671	.	A	T	688.84	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29470	chrY	13488674	.	C	G	964.91	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29471	chrY	13488675	.	C	T	1024.27	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29472	chrY	13488676	.	G	C,A	1647.03	PASS	AC=6,2;AF=0.091,0.030;AN=66;BaseQ
29473	chrY	13488677	.	C	T,A	777.98	PASS	AC=5,1;AF=0.081,0.016;AN=62;BaseQ
29474	chrY	13488680	.	C	T	156.62	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
29475	chrY	13488681	.	A	G,T	2742.65	my_snp_filter	AC=13,2;AF=0.260,0.040;AN=
29476	chrY	13488684	.	A	T	88.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29477	chrY	13488685	.	G	C,A	1014.39	PASS	AC=4,4;AF=0.059,0.059;AN=68;BaseQ
29478	chrY	13488688	.	G	T	184.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29479	chrY	13488691	.	A	T	154.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29480	chrY	13488693	.	C	T	95.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29481	chrY	13488696	.	C	G	80.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29482	chrY	13488697	.	C	A	70.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29483	chrY	13488698	.	A	C	136.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29484	chrY	13488700	.	C	T	725.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29485	chrY	13488704	.	T	A,C	1855.71	PASS	AC=1,7;AF=0.019,0.135;AN=52;BaseQ
29486	chrY	13488708	.	G	A	695.56	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
29487	chrY	13488709	.	T	G	4588.69	PASS	AC=15;AF=0.357;AN=42;BaseQRankSum=
29488	chrY	13488715	.	C	G	3403.61	PASS	AC=12;AF=0.286;AN=42;BaseQRankSum=

29489	chrY	13488721	.	T	A,G	366.82	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
29490	chrY	13488729	.	C	T,A	924.23	PASS	AC=5,2;AF=0.100,0.040;AN=50;BaseQ
29491	chrY	13488730	.	A	G	2274.09	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum
29492	chrY	13488732	.	C	T	193.98	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
29493	chrY	13488733	.	G	A,T	484.55	PASS	AC=2,1;AF=0.033,0.017;AN=60;BaseQ
29494	chrY	13488736	.	C	A	246.26	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
29495	chrY	13488737	.	C	A	6116.05	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum
29496	chrY	13488738	.	G	A	1860.66	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
29497	chrY	13488743	.	C	T	304.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
29498	chrY	13488747	.	A	G	5616.19	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum
29499	chrY	13488751	.	G	T	40.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
29500	chrY	13488753	.	G	T,A	588.22	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
29501	chrY	13488755	.	C	T,A	1246.06	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29502	chrY	13488756	.	G	A,T	2890.85	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
29503	chrY	13488759	.	C	A,*	446.49	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
29504	chrY	13488761	.	C	A	197.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
29505	chrY	13488762	.	C	T	2461.12	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
29506	chrY	13488765	.	C	G	305.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
29507	chrY	13488766	.	C	A,T	9613.44	PASS	AC=11,2;AF=0.162,0.029;AN=68;Base
29508	chrY	13488769	.	C	T	422.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
29509	chrY	13488771	.	G	C	8683.07	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
29510	chrY	13488772	.	G	A	8879.07	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
29511	chrY	13488773	.	C	T	1333.57	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
29512	chrY	13488775	.	C	T,G	2984.18	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29513	chrY	13488776	.	C	G	444.22	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
29514	chrY	13488778	.	C	T	9352.95	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum
29515	chrY	13488779	.	C	G,A	20936.02	PASS	AC=17,6;AF=0.340,0.120;AN
29516	chrY	13488781	.	T	A	106.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
29517	chrY	13488782	.	G	T	873.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
29518	chrY	13488783	.	G	A	319.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
29519	chrY	13488785	.	C	A	10344.56	PASS	AC=11;AF=0.167;AN=66;Base
29520	chrY	13488788	.	C	T,A	457.53	my_snp_filter	AC=3,1;AF=0.045,0.015;AN=
29521	chrY	13488789	.	G	A	12593.44	PASS	AC=13;AF=0.203;AN=64;Base
29522	chrY	13488791	.	A	G	173.01	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
29523	chrY	13488792	.	C	A	3176.64	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
29524	chrY	13488793	.	C	A	12635.30	PASS	AC=11;AF=0.177;AN=62;Base
29525	chrY	13488794	.	C	A,T	11456.85	PASS	AC=9,2;AF=0.150,0.033;AN=
29526	chrY	13488795	.	G	A	613.55	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
29527	chrY	13488797	.	G	A	12627.66	PASS	AC=10;AF=0.152;AN=66;Base
29528	chrY	13488798	.	C	A	72.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29529	chrY	13488800	.	A	G,C	531.52	my_snp_filter	AC=1,2;AF=0.015,0.029;AN=
29530	chrY	13488802	.	A	T	711.63	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
29531	chrY	13488803	.	G	T	12719.66	PASS	AC=10;AF=0.156;AN=64;Base
29532	chrY	13488806	.	G	A	1765.96	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
29533	chrY	13488808	.	G	A	13043.26	PASS	AC=10;AF=0.167;AN=60;Base
29534	chrY	13488810	.	G	C	57.77	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
29535	chrY	13488811	.	G	A	747.92	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
29536	chrY	13488812	.	A	G	2671.27	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum
29537	chrY	13488813	.	C	A	435.31	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
29538	chrY	13488814	.	C	T	22987.22	PASS	AC=9;AF=0.225;AN=40;BaseQ
29539	chrY	13488815	.	C	G,A	34398.19	PASS	AC=13,1;AF=0.361,0.028;AN
29540	chrY	13488818	.	A	T	3074.52	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum
29541	chrY	13488820	.	C	G	16250.69	PASS	AC=9;AF=0.180;AN=50;BaseQ
29542	chrY	13488821	.	C	T	6495.43	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum
29543	chrY	13488822	.	G	A	3788.98	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum
29544	chrY	13488826	.	C	G,T	735.17	my_snp_filter	AC=2,1;AF=0.045,0.023;AN=
29545	chrY	13488827	.	G	T	521.15	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum
29546	chrY	13488828	.	T	C	25393.26	PASS	AC=10;AF=0.278;AN=36;Base
29547	chrY	13488830	.	A	T,*	757.64	my_snp_filter	AC=3,1;AF=0.056,0.019;AN=
29548	chrY	13488831	.	C	T	299.75	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
29549	chrY	13488832	.	A	G	37625.87	PASS	AC=9;AF=0.300;AN=30;BaseQ
29550	chrY	13488833	.	G	C	6411.24	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum
29551	chrY	13488834	.	C	T	375.98	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
29552	chrY	13488835	.	C	T	178.21	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
29553	chrY	13488840	.	G	A	16485.24	PASS	AC=9;AF=0.167;AN=54;BaseQ
29554	chrY	13488842	.	T	A,*	7337.57	PASS	AC=2,7;AF=0.100,0.350;AN=20;BaseQ
29555	chrY	13488843	.	T	C,*	13053.30	PASS	AC=2,4;AF=0.091,0.182;AN=
29556	chrY	13488849	.	C	T,G	10043.69	PASS	AC=1,7;AF=0.017,0.117;AN=
29557	chrY	13488850	.	G	A	2081.88	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum
29558	chrY	13488851	.	C	T	2918.05	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum
29559	chrY	13488852	.	G	A	708.71	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum
29560	chrY	13488853	.	G	T	5935.41	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
29561	chrY	13488857	.	G	A	226.38	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29562	chrY	13488858	.	A	G	17972.19	PASS	AC=10;AF=0.143;AN=70;Base
29563	chrY	13488859	.	C	T	398.02	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29564	chrY	13488863	.	C	A	875.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ

29565	chrY	13488864	.	T	A	5796.01	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
29566	chrY	13488865	.	G	T	66.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29567	chrY	13488868	.	C	T	66.02	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29568	chrY	13488869	.	C	T	79.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29569	chrY	13488870	.	C	T	228.78	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
29570	chrY	13488871	.	G	T	16512.12	PASS	AC=13;AF=0.197;AN=66;Base
29571	chrY	13488874	.	C	G	3759.07	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
29572	chrY	13488879	.	G	A,T	13980.15	PASS	AC=10,5;AF=0.147,0.074;AN
29573	chrY	13488880	.	G	A	76.83	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29574	chrY	13488881	.	G	A	66.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29575	chrY	13488883	.	C	T	65.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29576	chrY	13488886	.	C	G	41.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29577	chrY	13488888	.	G	T	45.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29578	chrY	13488889	.	G	C	57.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29579	chrY	13488891	.	C	A	3903.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
29580	chrY	13488892	.	C	G	40.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29581	chrY	13488894	.	A	T	13567.88	PASS	AC=9;AF=0.129;AN=70;BaseQ
29582	chrY	13488895	.	G	A	414.10	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29583	chrY	13488896	.	G	T	1585.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29584	chrY	13488897	.	T	C	266.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29585	chrY	13488900	.	G	C	863.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29586	chrY	13488901	.	C	A	109.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29587	chrY	13488902	.	T	C	80.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29588	chrY	13488905	.	C	T	19898.26	PASS	AC=11;AF=0.167;AN=66;Base
29589	chrY	13488906	.	G	A,C	2099.89	my_snp_filter	AC=5,5;AF=0.074,0.074;AN=
29590	chrY	13488910	.	C	A	1614.11	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29591	chrY	13488912	.	C	G	2905.97	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
29592	chrY	13488913	.	G	T	1303.52	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29593	chrY	13488914	.	C	T,A	1512.06	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
29594	chrY	13488922	.	G	A	3429.89	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
29595	chrY	13488924	.	G	T,A	7577.87	PASS	AC=7,3;AF=0.106,0.045;AN=66;BaseQ
29596	chrY	13488926	.	G	C	1292.54	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29597	chrY	13488928	.	C	A	3285.30	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
29598	chrY	13488929	.	C	T	839.93	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
29599	chrY	13488930	.	G	A	2476.99	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
29600	chrY	13488931	.	T	C	537.91	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
29601	chrY	13488932	.	G	C	550.40	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
29602	chrY	13488933	.	T	G	34393.91	PASS	AC=13;AF=0.406;AN=32;Base
29603	chrY	13488934	.	T	C	274.59	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
29604	chrY	13488935	.	G	T	17688.38	PASS	AC=9;AF=0.167;AN=54;BaseQ
29605	chrY	13488936	.	G	C	453.93	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29606	chrY	13488938	.	G	A	831.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
29607	chrY	13488939	.	C	G	4475.42	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
29608	chrY	13488940	.	T	A	13417.65	PASS	AC=9;AF=0.150;AN=60;BaseQ
29609	chrY	13488941	.	G	A	846.35	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
29610	chrY	13488942	.	G	T	338.87	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
29611	chrY	13488943	.	G	A	4205.40	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
29612	chrY	13488946	.	A	C	9180.23	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
29613	chrY	13488948	.	G	A	465.99	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
29614	chrY	13488952	.	T	C,A	17948.10	PASS	AC=1,8;AF=0.038,0.308;AN=
29615	chrY	13488959	.	G	T	12734.58	PASS	AC=9;AF=0.375;AN=24;BaseQ
29616	chrY	13488963	.	A	C	10378.43	PASS	AC=9;AF=0.265;AN=34;BaseQ
29617	chrY	13488964	.	G	T	460.19	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
29618	chrY	13488966	.	G	T	3065.33	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
29619	chrY	13488968	.	C	T	3663.26	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
29620	chrY	13488969	.	G	T	8947.26	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
29621	chrY	13488972	.	C	G	13968.21	PASS	AC=9;AF=0.300;AN=30;BaseQ
29622	chrY	13488975	.	G	A	53.30	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29623	chrY	13488979	.	C	T	447.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29624	chrY	13488980	.	C	T	6027.69	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29625	chrY	13488981	.	C	T	3007.32	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29626	chrY	13488987	.	C	A,T	3623.71	PASS	AC=6,3;AF=0.107,0.054;AN=56;BaseQ
29627	chrY	13488988	.	A	G	12887.82	PASS	AC=9;AF=0.188;AN=48;BaseQ
29628	chrY	13488992	.	T	C	14533.24	PASS	AC=9;AF=0.281;AN=32;BaseQ
29629	chrY	13488994	.	G	A,T	3821.56	PASS	AC=6,1;AF=0.091,0.015;AN=66;BaseQ
29630	chrY	13488995	.	C	A,*	412.17	PASS	AC=2,1;AF=0.031,0.016;AN=64;BaseQ
29631	chrY	13488996	.	T	C,*	823.23	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
29632	chrY	13488998	.	C	A	71.42	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29633	chrY	13489001	.	C	T	338.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29634	chrY	13489003	.	C	T	51.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29635	chrY	13489004	.	G	A	4088.43	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
29636	chrY	13489007	.	A	T	3548.83	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29637	chrY	13489008	.	G	A	40.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29638	chrY	13489010	.	C	A	305.75	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
29639	chrY	13489012	.	A	G	6568.20	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
29640	chrY	13489013	.	T	C	5129.24	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=

29641	chrY	13489015	.	C	T	363.47	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
29642	chrY	13489016	.	C	T	951.43	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
29643	chrY	13489019	.	T	C	8464.96	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
29644	chrY	13489020	.	G	A	6810.08	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
29645	chrY	13489029	.	T	C	10873.81	PASS	AC=9;AF=0.225;AN=40;BaseQ
29646	chrY	13489030	.	G	A	5076.61	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
29647	chrY	13489031	.	C	T	3474.54	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
29648	chrY	13489032	.	G	C,A	7388.65	PASS	AC=3,5;AF=0.068,0.114;AN=44;BaseQ
29649	chrY	13489033	.	C	T	2859.73	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
29650	chrY	13489034	.	G	A	577.85	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
29651	chrY	13489040	.	G	T,*	674.20	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
29652	chrY	13489042	.	C	A,*	1010.75	PASS	AC=2,1;AF=0.036,0.018;AN=56;BaseQ
29653	chrY	13489043	.	G	A	22864.80	PASS	AC=10;AF=0.385;AN=26;BaseQ
29654	chrY	13489044	.	G	A	1391.47	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29655	chrY	13489045	.	A	T	500.03	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29656	chrY	13489046	.	T	G	421.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29657	chrY	13489047	.	G	C	1679.76	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29658	chrY	13489048	.	C	T	4596.80	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29659	chrY	13489049	.	A	T	1782.04	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
29660	chrY	13489054	.	A	C	4720	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29661	chrY	13489056	.	C	G,A	5920.31	PASS	AC=8,1;AF=0.121,0.015;AN=66;BaseQ
29662	chrY	13489057	.	C	T	10775.45	PASS	AC=7;AF=0.103;AN=68;BaseQ
29663	chrY	13489058	.	C	T	4931.36	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29664	chrY	13489060	.	G	T	1573.69	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29665	chrY	13489061	.	C	T	94.51	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
29666	chrY	13489062	.	G	A	12094.42	PASS	AC=7;AF=0.106;AN=66;BaseQ
29667	chrY	13489063	.	C	T	2287.55	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29668	chrY	13489065	.	C	T	2843.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29669	chrY	13489066	.	T	A	889.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29670	chrY	13489067	.	C	A	32.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29671	chrY	13489068	.	C	T	780.10	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29672	chrY	13489069	.	A	C	41253.47	PASS	AC=13;AF=0.464;AN=28;BaseQ
29673	chrY	13489071	.	G	T	3993.49	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
29674	chrY	13489073	.	C	T	7326.25	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
29675	chrY	13489074	.	G	A	7654.85	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
29676	chrY	13489077	.	T	C	49362.49	PASS	AC=14;AF=0.438;AN=32;BaseQ
29677	chrY	13489079	.	A	T,G	10464.09	PASS	AC=6,1;AF=0.094,0.016;AN=
29678	chrY	13489081	.	G	A	2699.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29679	chrY	13489082	.	A	G	4833.74	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29680	chrY	13489083	.	G	A	1844.87	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
29681	chrY	13489084	.	C	T,A	6856.56	PASS	AC=4,4;AF=0.061,0.061;AN=66;BaseQ
29682	chrY	13489085	.	C	T	10073.15	PASS	AC=11;AF=0.172;AN=64;BaseQ
29683	chrY	13489086	.	G	A	9576.34	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
29684	chrY	13489088	.	G	A	7710.40	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
29685	chrY	13489089	.	G	A	1872.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29686	chrY	13489090	.	C	T	22508.87	PASS	AC=10;AF=0.143;AN=70;BaseQ
29687	chrY	13489091	.	G	T	207.37	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29688	chrY	13489094	.	C	G	1152.81	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29689	chrY	13489095	.	G	A,T	9116.57	PASS	AC=9,1;AF=0.129,0.014;AN=70;BaseQ
29690	chrY	13489096	.	T	C	556.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29691	chrY	13489097	.	C	T	37.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29692	chrY	13489098	.	T	G	30.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29693	chrY	13489102	.	C	T	1697.68	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29694	chrY	13489103	.	T	A	3660.31	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
29695	chrY	13489104	.	C	T	6363.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29696	chrY	13489106	.	C	A	11990.58	PASS	AC=7;AF=0.100;AN=70;BaseQ
29697	chrY	13489107	.	C	A	894.49	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29698	chrY	13489110	.	C	T	15992.08	PASS	AC=14;AF=0.200;AN=70;BaseQ
29699	chrY	13489111	.	G	A	24112.98	PASS	AC=18;AF=0.265;AN=68;BaseQ
29700	chrY	13489113	.	C	T,*	6726.72	PASS	AC=6,5;AF=0.086,0.071;AN=70;BaseQ
29701	chrY	13489114	.	C	G,A,*	5541.76	PASS	AC=4,2,3;AF=0.057,0.029,0.043;AN=
29702	chrY	13489115	.	T	G,C	1365.41	my_snp_filter	AC=3,3;AF=0.043,0.043;AN=
29703	chrY	13489116	.	G	A	398.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29704	chrY	13489117	.	C	T	251.51	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29705	chrY	13489118	.	T	A	1183.81	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
29706	chrY	13489119	.	G	A	30.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29707	chrY	13489120	.	C	T,A	4297.92	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
29708	chrY	13489121	.	T	A	579.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29709	chrY	13489122	.	G	T,A	222.95	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
29710	chrY	13489123	.	G	A	6685.77	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
29711	chrY	13489124	.	A	G	108.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29712	chrY	13489126	.	G	T	1006.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29713	chrY	13489127	.	A	C	3354.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29714	chrY	13489128	.	G	A	4503.11	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
29715	chrY	13489129	.	C	G	167.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29716	chrY	13489130	.	T	A	197	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

29717	chrY	13489131	.	C	A,T	8152.55	PASS	AC=10,3;AF=0.143,0.043;AN=70;BaseQ
29718	chrY	13489132	.	C	T	1054.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
29719	chrY	13489133	.	T	A	74.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29720	chrY	13489134	.	G	T	7274.21	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
29721	chrY	13489135	.	G	T	706.37	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29722	chrY	13489136	.	C	A,G,T	8722.54	PASS	AC=8,1,4;AF=0.118,0.015,0.059;AN=
29723	chrY	13489137	.	G	A	172.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29724	chrY	13489138	.	A	G	286.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29725	chrY	13489139	.	G	C	542.72	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29726	chrY	13489140	.	C	A	596.68	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29727	chrY	13489141	.	C	T,A,G	612.50	PASS	AC=2,4,3;AF=0.029,0.057,0.043;AN=
29728	chrY	13489142	.	C	T,G,A	9817.59	PASS	AC=11,9,1;AF=0.157,0.129,0.014;AN=
29729	chrY	13489143	.	G	A	3734.08	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
29730	chrY	13489144	.	G	A,C	4284.57	PASS	AC=5,3;AF=0.071,0.043;AN=70;BaseQ
29731	chrY	13489146	.	G	A	149.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29732	chrY	13489147	.	T	A	5033.96	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
29733	chrY	13489149	.	T	G	56.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29734	chrY	13489150	.	C	T	554.87	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
29735	chrY	13489151	.	T	A	269.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29736	chrY	13489152	.	G	A	256.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29737	chrY	13489155	.	G	T	58.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29738	chrY	13489160	.	C	T,G	1150.74	PASS	AC=11,2;AF=0.157,0.029;AN=70;Base
29739	chrY	13489161	.	G	A	170.68	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
29740	chrY	13489162	.	C	A	2191.05	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29741	chrY	13489165	.	C	A,T,*	7507.70	PASS	AC=9,5,4;AF=0.129,0.071,0.057;AN=
29742	chrY	13489166	.	C	A,G	9492.26	PASS	AC=3,12;AF=0.043,0.171;AN=70;Base
29743	chrY	13489167	.	T	A	3105.18	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29744	chrY	13489168	.	T	C	140.59	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29745	chrY	13489171	.	C	A	715.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29746	chrY	13489172	.	T	C	981.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29747	chrY	13489173	.	A	G	122.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29748	chrY	13489175	.	A	G	70.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29749	chrY	13489177	.	A	T	1582.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29750	chrY	13489178	.	C	T	2510.08	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
29751	chrY	13489179	.	G	A,T	335.36	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
29752	chrY	13489180	.	G	A	1089.67	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29753	chrY	13489182	.	G	T	1561.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29754	chrY	13489183	.	G	T	850.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29755	chrY	13489185	.	C	A	792.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29756	chrY	13489186	.	C	G	386.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29757	chrY	13489187	.	C	T	8970.78	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
29758	chrY	13489188	.	G	T,A	4667.47	PASS	AC=7,14;AF=0.100,0.200;AN=70;Base
29759	chrY	13489189	.	G	A	411.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29760	chrY	13489191	.	G	T	578.24	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
29761	chrY	13489194	.	G	T,A,*	2768.19	PASS	AC=6,2,2;AF=0.088,0.029,0.029;AN=
29762	chrY	13489198	.	G	T,*	1394.02	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
29763	chrY	13489200	.	G	A,*	1766.85	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
29764	chrY	13489202	.	C	T,*	2347.49	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
29765	chrY	13489203	.	C	T,*	1353.17	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
29766	chrY	13489204	.	T	A,*	1312.91	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQ
29767	chrY	13489206	.	C	G	12819.97	PASS	AC=24;AF=0.429;AN=56;BaseQ
29768	chrY	13489207	.	G	T,C	2340.91	PASS	AC=7,2;AF=0.117,0.033;AN=60;BaseQ
29769	chrY	13489211	.	A	G,T	2750.09	PASS	AC=7,4;AF=0.100,0.057;AN=70;BaseQ
29770	chrY	13489212	.	G	A	1496.78	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29771	chrY	13489214	.	C	T,*	1881.82	PASS	AC=1,5;AF=0.015,0.074;AN=68;BaseQ
29772	chrY	13489215	.	C	T,G	4642.10	PASS	AC=9,5;AF=0.132,0.074;AN=68;BaseQ
29773	chrY	13489217	.	C	T	936.83	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
29774	chrY	13489220	.	T	C	10885.70	PASS	AC=17;AF=0.354;AN=48;BaseQ
29775	chrY	13489221	.	G	A,C	1655.96	PASS	AC=5,6;AF=0.096,0.115;AN=52;BaseQ
29776	chrY	13489224	.	G	A,T,*	2968.97	PASS	AC=6,1,2;AF=0.094,0.016,0.031;AN=
29777	chrY	13489228	.	G	T,C	1263.88	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQ
29778	chrY	13489231	.	C	A	246.24	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29779	chrY	13489232	.	C	T	240.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29780	chrY	13489233	.	C	A,*	1818.39	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ
29781	chrY	13489234	.	T	C,A	10629.96	PASS	AC=16,4;AF=0.333,0.083;AN=
29782	chrY	13489236	.	C	G,T,*	2285.98	PASS	AC=3,3,1;AF=0.044,0.044,0.015;AN=
29783	chrY	13489238	.	G	C,*	2480.99	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
29784	chrY	13489239	.	C	T,G	5395.27	PASS	AC=7,2;AF=0.106,0.030;AN=66;BaseQ
29785	chrY	13489240	.	G	A,T,*	2792.29	PASS	AC=2,5,1;AF=0.029,0.074,0.015;AN=
29786	chrY	13489245	.	A	G,*	1380.92	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29787	chrY	13489246	.	G	T	886.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29788	chrY	13489250	.	A	G,*	1525.07	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29789	chrY	13489251	.	C	A,*	1945.52	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
29790	chrY	13489255	.	A	G	6524.85	PASS	AC=21;AF=0.438;AN=48;BaseQRankSum=
29791	chrY	13489257	.	T	A	125.36	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29792	chrY	13489261	.	C	A,*	2043.40	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ

29793	chrY	13489264	.	G	C,A	973.51	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29794	chrY	13489265	.	A	C	507.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29795	chrY	13489266	.	G	A,*	1811.53	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29796	chrY	13489267	.	G	A,*	1528.85	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29797	chrY	13489269	.	G	A,*	2732.97	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
29798	chrY	13489270	.	C	A,T	2509.56	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQ
29799	chrY	13489271	.	T	A	137.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29800	chrY	13489272	.	T	C,*	2835.89	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
29801	chrY	13489273	.	T	C,*	3446.64	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29802	chrY	13489278	.	T	C,*	11427.65	PASS	AC=9,3;AF=0.129,0.043;AN=
29803	chrY	13489279	.	G	A,*	1304.88	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
29804	chrY	13489281	.	G	A,*	5611.60	PASS	AC=26,1;AF=0.371,0.014;AN=70;BaseQ
29805	chrY	13489282	.	G	A,T	4576.30	PASS	AC=22,3;AF=0.314,0.043;AN=70;BaseQ
29806	chrY	13489283	.	G	A,*	401.89	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
29807	chrY	13489286	.	T	G,*	1638.10	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29808	chrY	13489287	.	A	A,*	649.94	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29809	chrY	13489288	.	G	C,*	610.37	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
29810	chrY	13489289	.	G	T,*	1913.60	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
29811	chrY	13489292	.	A	G	15137.08	PASS	AC=32;AF=0.485;AN=66;BaseQ
29812	chrY	13489293	.	G	A,*	5424.03	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
29813	chrY	13489298	.	G	A	1885.05	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
29814	chrY	13489299	.	G	C	5132.79	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
29815	chrY	13489300	.	A	C,G,T,*	11487.86	PASS	AC=23,10,3,1;AF=0.338,0.1
29816	chrY	13489302	.	C	T	619.22	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
29817	chrY	13489303	.	G	A,*	6023.73	PASS	AC=24,1;AF=0.343,0.014;AN=70;BaseQ
29818	chrY	13489304	.	G	T	231.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29819	chrY	13489306	.	G	T,*	1965.32	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29820	chrY	13489307	.	C	A,*	1161.96	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
29821	chrY	13489309	.	G	T,*	2496.06	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29822	chrY	13489311	.	G	A,*	1420.89	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29823	chrY	13489312	.	C	T	3301.23	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
29824	chrY	13489313	.	G	A	121.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29825	chrY	13489314	.	G	C,T	6767.53	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
29826	chrY	13489317	.	G	A,*	1563.07	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29827	chrY	13489319	.	C	A,*	6889.62	PASS	AC=4,3;AF=0.057,0.043;AN=70;BaseQ
29828	chrY	13489323	.	C	A	1389.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29829	chrY	13489329	.	C	T,*	2650.20	PASS	AC=10,5;AF=0.156,0.078;AN=64;BaseQ
29830	chrY	13489330	.	A	G,*	12641.29	PASS	AC=16,4;AF=0.250,0.063;AN=
29831	chrY	13489332	.	G	A,*	2382.75	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
29832	chrY	13489335	.	A	G,*	1348.83	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
29833	chrY	13489338	.	C	G,*	2371.57	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29834	chrY	13489339	.	C	A,T,*	1706.54	PASS	AC=2,3,1;AF=0.029,0.043,0.014;AN=
29835	chrY	13489340	.	T	G,*	1038.22	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
29836	chrY	13489343	.	C	A,*	2837.90	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29837	chrY	13489345	.	G	T,*	8843.05	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
29838	chrY	13489347	.	C	A,*	1424.63	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29839	chrY	13489350	.	T	A,*	1582.41	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29840	chrY	13489351	.	G	T,*	1598.50	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29841	chrY	13489352	.	G	T,*	4741.05	PASS	AC=16,1;AF=0.229,0.014;AN=70;BaseQ
29842	chrY	13489354	.	G	A,*	9062.15	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
29843	chrY	13489356	.	T	G	30226.41	PASS	AC=28;AF=0.438;AN=64;BaseQ
29844	chrY	13489357	.	G	T,A,C	4998.53	PASS	AC=18,2,1;AF=0.290,0.032,0.016;AN=
29845	chrY	13489358	.	C	T,*	4101.49	PASS	AC=6,1;AF=0.094,0.016;AN=64;BaseQ
29846	chrY	13489359	.	G	T,A,*	1970.09	PASS	AC=3,5,1;AF=0.047,0.078,0.016;AN=
29847	chrY	13489361	.	G	A,T	9448.87	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
29848	chrY	13489362	.	T	A,C	2150.06	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29849	chrY	13489364	.	T	C,*	3091.88	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29850	chrY	13489367	.	T	C,A	22335.28	PASS	AC=25,2;AF=0.417,0.033;AN=
29851	chrY	13489369	.	C	A,*	3681.64	PASS	AC=10,1;AF=0.147,0.015;AN=68;BaseQ
29852	chrY	13489370	.	C	A	3362.85	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
29853	chrY	13489372	.	G	A,T,*	1710.55	PASS	AC=4,2,2;AF=0.057,0.029,0.029;AN=
29854	chrY	13489375	.	C	A	4314.04	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
29855	chrY	13489376	.	C	T	1719.18	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
29856	chrY	13489379	.	C	T,*	2004.18	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
29857	chrY	13489380	.	C	A,*	1459.39	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
29858	chrY	13489385	.	G	A,*	1787.66	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
29859	chrY	13489386	.	G	T	167.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29860	chrY	13489392	.	C	T	487.43	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29861	chrY	13489393	.	T	G,A	21196.73	PASS	AC=13,19;AF=0.210,0.306;AN=
29862	chrY	13489395	.	C	G,T	3649.58	PASS	AC=7,1;AF=0.100,0.014;AN=70;BaseQ
29863	chrY	13489398	.	G	A,*	3979.68	PASS	AC=10,2;AF=0.143,0.029;AN=70;BaseQ
29864	chrY	13489399	.	G	T,*	4154.45	PASS	AC=10,2;AF=0.143,0.029;AN=70;BaseQ
29865	chrY	13489402	.	T	G,*	2496.12	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
29866	chrY	13489403	.	T	A,*	1726.77	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
29867	chrY	13489407	.	G	C,*	10183.70	PASS	AC=6,2;AF=0.086,0.029;AN=
29868	chrY	13489409	.	C	A,*	2038.63	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ

29869	chrY	13489410	.	T	A,*	1193.86	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
29870	chrY	13489413	.	T	A,*	1477.78	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
29871	chrY	13489415	.	G	T,A	11249.56	PASS	AC=9,5;AF=0.132,0.074;AN=
29872	chrY	13489418	.	C	G	9599.38	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
29873	chrY	13489423	.	C	T	1577.74	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
29874	chrY	13489424	.	C	A,T	2528.40	PASS	AC=4,2;AF=0.061,0.030;AN=66;BaseQ
29875	chrY	13489425	.	T	C	25734.30	PASS	AC=22;AF=0.440;AN=50;BaseQ
29876	chrY	13489426	.	G	A	285.42	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
29877	chrY	13489427	.	G	A	1669.62	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
29878	chrY	13489433	.	G	A	459.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29879	chrY	13489434	.	G	A	18350.95	PASS	AC=7;AF=0.103;AN=68;BaseQ
29880	chrY	13489435	.	C	A	500.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29881	chrY	13489437	.	C	T	1421	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29882	chrY	13489439	.	A	G	105.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29883	chrY	13489441	.	A	G,C	8157.58	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
29884	chrY	13489442	.	C	G	481.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29885	chrY	13489445	.	C	T	10153.21	PASS	AC=14;AF=0.200;AN=70;BaseQ
29886	chrY	13489446	.	G	A	6569.29	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
29887	chrY	13489447	.	G	T,A	552.37	my_snp_filter	AC=3,4;AF=0.043,0.057;AN=
29888	chrY	13489448	.	A	T,G	1889.95	my_snp_filter	AC=8,1;AF=0.114,0.014;AN=
29889	chrY	13489449	.	G	T,A	8686.13	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
29890	chrY	13489452	.	C	T	56.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29891	chrY	13489453	.	T	A	90.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
29892	chrY	13489457	.	A	C	652.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29893	chrY	13489464	.	C	G	921	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
29894	chrY	13489465	.	C	G,A	4110.93	PASS	AC=13,2;AF=0.186,0.029;AN=70;BaseQ
29895	chrY	13489468	.	G	A	9245.42	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
29896	chrY	13489469	.	G	A	5295.51	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
29897	chrY	13489471	.	A	T	129.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29898	chrY	13489472	.	T	A	10775.09	PASS	AC=18;AF=0.257;AN=70;BaseQ
29899	chrY	13489474	.	C	A,*	1134.46	PASS	AC=2,2;AF=0.031,0.031;AN=64;BaseQ
29900	chrY	13489475	.	T	C	52682.61	PASS	AC=23;AF=0.383;AN=60;BaseQ
29901	chrY	13489477	.	G	T,A	9283.75	PASS	AC=4,7;AF=0.059,0.103;AN=68;BaseQ
29902	chrY	13489479	.	G	T	675.48	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29903	chrY	13489482	.	C	T,A	14505.17	PASS	AC=20,1;AF=0.286,0.014;AN=
29904	chrY	13489483	.	C	T,G	3862.70	PASS	AC=9,3;AF=0.129,0.043;AN=70;BaseQ
29905	chrY	13489486	.	G	C	264.11	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
29906	chrY	13489488	.	G	T	14047.61	PASS	AC=10;AF=0.152;AN=66;BaseQ
29907	chrY	13489491	.	G	T,A	11186.11	PASS	AC=16,8;AF=0.235,0.118;AN=
29908	chrY	13489492	.	G	A	60.08	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29909	chrY	13489493	.	C	A,G	9962.89	PASS	AC=19,1;AF=0.279,0.015;AN=68;BaseQ
29910	chrY	13489494	.	C	A	61.08	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
29911	chrY	13489497	.	G	T	155.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29912	chrY	13489498	.	G	T	727.91	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29913	chrY	13489501	.	C	T	957.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29914	chrY	13489505	.	C	A	3300.58	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
29915	chrY	13489507	.	G	T	13648.14	PASS	AC=21;AF=0.300;AN=70;BaseQ
29916	chrY	13489508	.	G	T	13408.63	PASS	AC=23;AF=0.329;AN=70;BaseQ
29917	chrY	13489510	.	G	T	346.21	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
29918	chrY	13489513	.	C	G,T	1703.75	PASS	AC=3,9;AF=0.043,0.129;AN=70;BaseQ
29919	chrY	13489514	.	C	G	6348.05	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
29920	chrY	13489515	.	G	A	24302.47	PASS	AC=25;AF=0.357;AN=70;BaseQ
29921	chrY	13489518	.	T	C	75.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29922	chrY	13489519	.	A	G,T	4746.40	PASS	AC=7,11;AF=0.100,0.157;AN=70;BaseQ
29923	chrY	13489524	.	G	A	17505.86	PASS	AC=18;AF=0.265;AN=68;BaseQ
29924	chrY	13489525	.	C	T	356.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
29925	chrY	13489527	.	C	G,T	14335	PASS	AC=13,8;AF=0.210,0.129;AN=62;BaseQ
29926	chrY	13489528	.	C	G,A	82355.49	PASS	AC=22,25;AF=0.355,0.403;AN=
29927	chrY	13489529	.	C	T,G	18462.26	PASS	AC=16,2;AF=0.250,0.031;AN=
29928	chrY	13489530	.	G	A	2455.83	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
29929	chrY	13489531	.	C	T	10874.48	PASS	AC=9;AF=0.129;AN=70;BaseQ
29930	chrY	13489532	.	G	A,C,*	2546.36	PASS	AC=6,5,4;AF=0.088,0.074,0.059;AN=
29931	chrY	13489533	.	G	T,*	1908.55	my_snp_filter	AC=9,3;AF=0.132,0.044;AN=
29932	chrY	13489538	.	G	A	5515.02	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum
29933	chrY	13489539	.	C	T	19331.37	PASS	AC=19;AF=0.288;AN=66;BaseQ
29934	chrY	13489540	.	G	C,T	7670.17	PASS	AC=10,1;AF=0.152,0.015;AN=66;BaseQ
29935	chrY	13489541	.	G	T	32.95	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
29936	chrY	13489543	.	C	T	256.57	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29937	chrY	13489547	.	C	T	531.20	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
29938	chrY	13489548	.	G	A	30405.49	PASS	AC=26;AF=0.394;AN=66;BaseQ
29939	chrY	13489551	.	T	A	77.54	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29940	chrY	13489553	.	G	A	285.55	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
29941	chrY	13489555	.	C	A	69.61	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
29942	chrY	13489557	.	T	G	81159.11	PASS	AC=21;AF=0.457;AN=46;BaseQ
29943	chrY	13489559	.	G	T,*	8278.32	PASS	AC=11,3;AF=0.167,0.045;AN=66;BaseQ
29944	chrY	13489560	.	G	A	3503.76	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ

29945	chrY	13489561	.	G	A	1223.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
29946	chrY	13489563	.	G	T	1311.41	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
29947	chrY	13489568	.	C	T	1301	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29948	chrY	13489569	.	G	C,T,A	93381.03	PASS	AC=28,12,3;AF=0.467,0.200
29949	chrY	13489570	.	G	A	458.44	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
29950	chrY	13489571	.	G	T	8050.23	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29951	chrY	13489572	.	G	A	7797.75	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29952	chrY	13489578	.	C	A,T	4332.27	PASS	AC=6,5;AF=0.086,0.071;AN=70;BaseQ
29953	chrY	13489579	.	T	A,C	2145.99	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
29954	chrY	13489580	.	C	A	5958.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29955	chrY	13489581	.	T	C	115.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
29956	chrY	13489583	.	A	C,T	693.93	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
29957	chrY	13489584	.	T	C	74.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
29958	chrY	13489585	.	G	A	234.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
29959	chrY	13489586	.	C	A,T	6674.46	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
29960	chrY	13489587	.	C	T,A	237.16	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
29961	chrY	13489589	.	T	A	812.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29962	chrY	13489592	.	C	T	1381.02	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
29963	chrY	13489594	.	C	A	917.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29964	chrY	13489595	.	C	A,T	5899.03	PASS	AC=7,2;AF=0.100,0.029;AN=70;BaseQ
29965	chrY	13489597	.	C	T,A	1820.73	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
29966	chrY	13489598	.	C	A,T	1000.01	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
29967	chrY	13489599	.	C	T,A	6704.07	PASS	AC=3,6;AF=0.043,0.086;AN=70;BaseQ
29968	chrY	13489600	.	C	G	1006.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
29969	chrY	13489601	.	A	T	713.60	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
29970	chrY	13489602	.	C	A	1900.35	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
29971	chrY	13489604	.	C	A,T	11807.16	PASS	AC=2,13;AF=0.029,0.186;AN=
29972	chrY	13489605	.	C	A,T	1083.45	my_snp_filter	AC=6,2;AF=0.086,0.029;AN=
29973	chrY	13489606	.	C	T,A	9929.58	PASS	AC=8,3;AF=0.114,0.043;AN=70;BaseQ
29974	chrY	13489607	.	G	T,A	6651.67	PASS	AC=2,9;AF=0.029,0.129;AN=70;BaseQ
29975	chrY	13489609	.	C	T	1593.36	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
29976	chrY	13489610	.	T	A	193.98	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
29977	chrY	13489611	.	G	T	1753.13	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
29978	chrY	13489614	.	C	A,*	5566.24	PASS	AC=11,1;AF=0.220,0.020;AN=50;Base
29979	chrY	13489623	.	C	T,A	9754.48	PASS	AC=10,3;AF=0.192,0.058;AN=52;Base
29980	chrY	13489628	.	A	C	13617.76	PASS	AC=19;AF=0.500;AN=38;Base
29981	chrY	13489637	.	C	A	2235.65	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
29982	chrY	13489638	.	A	T	433.47	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
29983	chrY	13489639	.	C	G,T,A	3597.34	PASS	AC=2,7,5;AF=0.037,0.130,0.093;AN=
29984	chrY	13489642	.	C	A,*	2472.68	PASS	AC=3,2;AF=0.047,0.031;AN=64;BaseQ
29985	chrY	13489643	.	C	T,A	699.75	PASS	AC=3,2;AF=0.045,0.030;AN=66;BaseQ
29986	chrY	13489644	.	G	A	9735.07	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
29987	chrY	13489646	.	A	G	802.68	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
29988	chrY	13489649	.	A	T	383.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
29989	chrY	13489652	.	C	T	2492.64	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
29990	chrY	13489653	.	G	A	8931.81	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
29991	chrY	13489656	.	C	T	930.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
29992	chrY	13489659	.	C	T	3280.62	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
29993	chrY	13489660	.	C	T,A	855.06	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
29994	chrY	13489661	.	C	A,G	423.33	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
29995	chrY	13489662	.	T	A,G	4106.33	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
29996	chrY	13489663	.	G	T	1391.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29997	chrY	13489664	.	G	T	515.87	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
29998	chrY	13489665	.	G	T	3277.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
29999	chrY	13489666	.	C	A	169.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30000	chrY	13489667	.	T	A	121.16	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30001	chrY	13489668	.	G	T,A	1412.94	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
30002	chrY	13489669	.	G	A	6612.53	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30003	chrY	13489670	.	G	T	384.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30004	chrY	13489671	.	T	A	2220.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30005	chrY	13489672	.	G	T	81.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30006	chrY	13489674	.	A	G,*	1002.23	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
30007	chrY	13489675	.	G	A,T	2662.96	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
30008	chrY	13489677	.	C	T,G	479.22	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
30009	chrY	13489678	.	C	T	4223.43	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30010	chrY	13489679	.	C	A	942.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30011	chrY	13489680	.	C	T,A	1157.16	my_snp_filter	AC=9,1;AF=0.129,0.014;AN=
30012	chrY	13489681	.	C	T,G,A	8098.87	PASS	AC=10,1,1;AF=0.143,0.014,0.014;AN=
30013	chrY	13489682	.	G	T,A	7010.24	PASS	AC=6,9;AF=0.086,0.129;AN=70;BaseQ
30014	chrY	13489687	.	A	G,T	36601.76	PASS	AC=19,1;AF=0.365,0.019;AN=
30015	chrY	13489693	.	C	T,A	445.37	my_snp_filter	AC=3,1;AF=0.047,0.016;AN=
30016	chrY	13489694	.	A	T	916.28	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
30017	chrY	13489695	.	C	T,A	763.02	PASS	AC=3,3;AF=0.047,0.047;AN=64;BaseQ
30018	chrY	13489697	.	G	A	3435.89	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30019	chrY	13489700	.	C	A,T,*	1494.12	PASS	AC=3,3,2;AF=0.047,0.047,0.031;AN=
30020	chrY	13489702	.	C	A,T,G	9382.05	PASS	AC=4,3,10;AF=0.077,0.058,0.192;AN=

30021	chrY	13489703	.	G	A,T	4405.50	PASS	AC=5,4;AF=0.119,0.095;AN=42;BaseQ
30022	chrY	13489704	.	C	T,G	843.53	PASS	AC=3,2;AF=0.068,0.045;AN=44;BaseQ
30023	chrY	13489705	.	A	G	23031.33	PASS	AC=20;AF=0.476;AN=42;BaseQ
30024	chrY	13489706	.	C	T	2697	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
30025	chrY	13489707	.	A	G	2518.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30026	chrY	13489708	.	G	A	318.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30027	chrY	13489709	.	C	T	2345.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30028	chrY	13489710	.	G	A	8602.69	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
30029	chrY	13489712	.	C	G	945.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30030	chrY	13489714	.	A	T	30.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30031	chrY	13489716	.	G	T,C	381.08	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
30032	chrY	13489717	.	C	G,T	1982.90	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
30033	chrY	13489718	.	C	T,A	1356.09	my_snp_filter	AC=3,3;AF=0.043,0.043;AN=
30034	chrY	13489719	.	T	A	3523.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30035	chrY	13489720	.	G	C	875.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30036	chrY	13489721	.	A	T	1669.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30037	chrY	13489722	.	C	A,T	1078.44	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
30038	chrY	13489724	.	C	T,A	10719.87	PASS	AC=11,1;AF=0.157,0.014;AN=
30039	chrY	13489725	.	C	G,A	2563.18	PASS	AC=2,4;AF=0.029,0.059;AN=68;BaseQ
30040	chrY	13489726	.	C	A	1780.26	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30041	chrY	13489727	.	C	T,G,A	2700.77	PASS	AC=3,2,1;AF=0.045,0.030,0.015;AN=
30042	chrY	13489730	.	T	C,G	2202.27	PASS	AC=14,1;AF=0.219,0.016;AN=
30043	chrY	13489733	.	C	T,G,A,*	4664.63	PASS	AC=3,2,1,5;AF=0.052,0.034,0.017,0
30044	chrY	13489734	.	C	G,A	30007.93	PASS	AC=20,4;AF=0.400,0.080;AN=
30045	chrY	13489735	.	G	A,T	10905.28	PASS	AC=3,11;AF=0.047,0.172;AN=
30046	chrY	13489736	.	C	T	1629.88	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30047	chrY	13489737	.	T	A	180.06	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
30048	chrY	13489738	.	C	G,T	689.73	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
30049	chrY	13489739	.	G	A	15581.93	PASS	AC=14;AF=0.206;AN=68;BaseQ
30050	chrY	13489740	.	C	T	166.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30051	chrY	13489743	.	C	A	1054.85	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30052	chrY	13489744	.	C	A,T	376.60	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
30053	chrY	13489745	.	T	A,G	3259.91	PASS	AC=1,4;AF=0.014,0.057;AN=70;BaseQ
30054	chrY	13489746	.	C	T,A	1846.88	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
30055	chrY	13489751	.	C	A,*	1708.65	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
30056	chrY	13489755	.	C	T	9816.70	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30057	chrY	13489756	.	G	A,C	10798.92	PASS	AC=6,7;AF=0.086,0.100;AN=
30058	chrY	13489759	.	C	A,T	1512.08	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
30059	chrY	13489760	.	C	T	1491.41	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30060	chrY	13489763	.	C	T,A	8119.26	PASS	AC=5,10;AF=0.076,0.152;AN=66;BaseQ
30061	chrY	13489766	.	A	C,*	28337.93	PASS	AC=15,1;AF=0.357,0.024;AN=
30062	chrY	13489769	.	C	T	583.84	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
30063	chrY	13489770	.	G	A,C	4805.97	PASS	AC=6,2;AF=0.111,0.037;AN=54;BaseQ
30064	chrY	13489772	.	C	T	1703.19	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
30065	chrY	13489774	.	C	A,T	838.44	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
30066	chrY	13489775	.	G	A,T	3401.26	PASS	AC=2,5;AF=0.032,0.081;AN=62;BaseQ
30067	chrY	13489776	.	C	A	1301.40	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
30068	chrY	13489777	.	C	G	193.90	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
30069	chrY	13489778	.	T	C,A,G	24303.49	PASS	AC=12,1,4;AF=0.286,0.024,0
30070	chrY	13489780	.	T	G	36.21	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
30071	chrY	13489781	.	C	A	1113.03	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQ
30072	chrY	13489782	.	C	T,A	349.88	PASS	AC=1,1;AF=0.015,0.015;AN=66;BaseQ
30073	chrY	13489783	.	C	A	379.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
30074	chrY	13489784	.	C	A	1853.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30075	chrY	13489785	.	C	T	41.98	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30076	chrY	13489788	.	C	T	100.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30077	chrY	13489790	.	G	A	2540.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30078	chrY	13489793	.	T	G	30.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30079	chrY	13489795	.	C	T	3402.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30080	chrY	13489796	.	C	T	41.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30081	chrY	13489798	.	G	C	121.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30082	chrY	13489799	.	C	A,G	2502.59	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
30083	chrY	13489802	.	C	T	543.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
30084	chrY	13489803	.	C	A	1961.57	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
30085	chrY	13489804	.	C	A,G	48416.43	PASS	AC=26,5;AF=0.433,0.083;AN=
30086	chrY	13489808	.	T	C	42.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30087	chrY	13489810	.	G	A	41.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30088	chrY	13489811	.	A	G	388.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30089	chrY	13489813	.	T	A,C	17055.60	PASS	AC=4,20;AF=0.063,0.313;AN=
30090	chrY	13489814	.	G	A	1851.33	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
30091	chrY	13489815	.	C	A,T,G	1031.47	PASS	AC=4,4,1;AF=0.059,0.059,0.015;AN=
30092	chrY	13489817	.	T	C,*	1609.50	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
30093	chrY	13489818	.	G	A,*	1634.67	PASS	AC=1,1;AF=0.015,0.015;AN=68;BaseQ
30094	chrY	13489820	.	T	C,A	22908.26	PASS	AC=18,6;AF=0.333,0.111;AN=
30095	chrY	13489821	.	G	A	1154.19	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
30096	chrY	13489823	.	T	C	25750.03	PASS	AC=21;AF=0.389;AN=54;BaseQ

30097	chrY	13489824	.	G	A,C	1357.78	PASS	AC=2,3;AF=0.033,0.050;AN=60;BaseQ
30098	chrY	13489825	.	G	A	94.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30099	chrY	13489828	.	C	T,A	5723.73	PASS	AC=10,2;AF=0.147,0.029;AN=68;Base
30100	chrY	13489829	.	G	A,C	3451.59	PASS	AC=7,1;AF=0.103,0.015;AN=68;BaseQ
30101	chrY	13489830	.	C	G	97.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
30102	chrY	13489832	.	C	G	36480.26	PASS	AC=29;AF=0.518;AN=56;Base
30103	chrY	13489834	.	C	A,T	8029.63	PASS	AC=10,3;AF=0.147,0.044;AN=68;Base
30104	chrY	13489835	.	C	T,A,G	3375.89	PASS	AC=4,8,1;AF=0.061,0.121,0.015;AN=
30105	chrY	13489837	.	C	A	50.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30106	chrY	13489838	.	T	A	1279.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30107	chrY	13489840	.	G	C	1038.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30108	chrY	13489842	.	T	C,A	2624.96	PASS	AC=10,2;AF=0.143,0.029;AN=70;Base
30109	chrY	13489843	.	C	G	1980.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30110	chrY	13489845	.	C	T	1578.08	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30111	chrY	13489849	.	G	T,C	1625.03	PASS	AC=8,4;AF=0.114,0.057;AN=70;BaseQ
30112	chrY	13489850	.	C	T	1275.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30113	chrY	13489851	.	C	T	558.19	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30114	chrY	13489852	.	G	A,T	11684.52	PASS	AC=13,1;AF=0.186,0.014;AN=
30115	chrY	13489853	.	G	T	667.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30116	chrY	13489854	.	C	G,A	4670.90	PASS	AC=7,4;AF=0.100,0.057;AN=70;BaseQ
30117	chrY	13489855	.	C	T,A	3806.38	PASS	AC=4,4;AF=0.057,0.057;AN=70;BaseQ
30118	chrY	13489856	.	T	C	514.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30119	chrY	13489857	.	C	A	39.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30120	chrY	13489860	.	G	A,*	2994.27	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
30121	chrY	13489861	.	G	T,*	220.03	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
30122	chrY	13489862	.	C	A,T	2138.40	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQ
30123	chrY	13489865	.	G	A,*	137.13	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
30124	chrY	13489867	.	C	A	88.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30125	chrY	13489868	.	C	A	1867	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
30126	chrY	13489870	.	G	C	1088.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30127	chrY	13489871	.	C	T	5092.85	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
30128	chrY	13489872	.	G	A,C	3996.70	PASS	AC=11,3;AF=0.157,0.043;AN=70;Base
30129	chrY	13489873	.	C	A	449.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30130	chrY	13489874	.	T	A	1166.22	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30131	chrY	13489875	.	C	A,T	617.56	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
30132	chrY	13489880	.	C	G,T	4340.18	PASS	AC=1,10;AF=0.014,0.143;AN=70;Base
30133	chrY	13489881	.	G	A	4872	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
30134	chrY	13489882	.	C	G	884.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30135	chrY	13489883	.	A	T	266.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30136	chrY	13489886	.	C	A,T	2062.96	PASS	AC=2,3;AF=0.029,0.044;AN=68;BaseQ
30137	chrY	13489888	.	G	A,*	1953.57	PASS	AC=7,5;AF=0.103,0.074;AN=68;BaseQ
30138	chrY	13489890	.	C	G	140.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30139	chrY	13489891	.	T	A	31.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30140	chrY	13489893	.	A	T	1026.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30141	chrY	13489894	.	C	T,A	1857.63	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
30142	chrY	13489895	.	G	A,C	4915.22	PASS	AC=18,3;AF=0.257,0.043;AN=70;Base
30143	chrY	13489897	.	G	T	745.33	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30144	chrY	13489901	.	C	G	20797.77	PASS	AC=32;AF=0.500;AN=64;Base
30145	chrY	13489904	.	A	T,*	1045.94	PASS	AC=2,1;AF=0.029,0.015;AN=68;BaseQ
30146	chrY	13489905	.	G	T	335.03	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
30147	chrY	13489906	.	A	C	14474.56	PASS	AC=29;AF=0.468;AN=62;Base
30148	chrY	13489907	.	C	T	2341.68	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
30149	chrY	13489908	.	C	T	1941.49	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30150	chrY	13489910	.	C	A,G,T	4303.29	PASS	AC=7,2,1;AF=0.100,0.029,0.014;AN=
30151	chrY	13489913	.	T	G	19476.52	PASS	AC=31;AF=0.456;AN=68;Base
30152	chrY	13489915	.	C	T	933.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30153	chrY	13489921	.	G	C,A	1289.02	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
30154	chrY	13489922	.	T	G	110.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30155	chrY	13489924	.	C	A,*	560.90	PASS	AC=5,2;AF=0.071,0.029;AN=70;BaseQ
30156	chrY	13489926	.	C	T	521.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30157	chrY	13489929	.	G	A,C	4035.33	PASS	AC=5,6;AF=0.071,0.086;AN=70;BaseQ
30158	chrY	13489931	.	C	G	1521.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30159	chrY	13489933	.	G	A	8150.61	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
30160	chrY	13489936	.	C	A,T	2107.69	PASS	AC=4,4;AF=0.057,0.057;AN=70;BaseQ
30161	chrY	13489937	.	G	C	662.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30162	chrY	13489938	.	T	G	185.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30163	chrY	13489939	.	G	A,C	1043.39	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
30164	chrY	13489940	.	A	G	906.49	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30165	chrY	13489941	.	A	G	296.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30166	chrY	13489942	.	A	G	33.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30167	chrY	13489946	.	C	T	1553.51	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
30168	chrY	13489947	.	G	A	942.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30169	chrY	13489949	.	C	T	4558.23	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30170	chrY	13489953	.	G	A	72.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30171	chrY	13489954	.	T	G	28859.45	PASS	AC=38;AF=0.543;AN=70;Base
30172	chrY	13489955	.	C	T	274.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

30173	chrY	13489957	.	C	T	1472.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30174	chrY	13489960	.	C	A	259.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30175	chrY	13489961	.	C	A	576.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30176	chrY	13489962	.	A	G	37.95	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30177	chrY	13489963	.	A	G	134.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30178	chrY	13489965	.	A	T	296.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
30179	chrY	13489968	.	T	C	33.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30180	chrY	13489971	.	C	T,*	2039.14	PASS	AC=9,2;AF=0.129,0.029;AN=70;BaseQ
30181	chrY	13489972	.	G	A,*	855.06	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
30182	chrY	13489974	.	A	C,T	12255.37	PASS	AC=24,3;AF=0.353,0.044;AN=
30183	chrY	13489982	.	T	A,C	18558.68	PASS	AC=31,3;AF=0.443,0.043;AN=
30184	chrY	13489983	.	G	A	3727.55	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30185	chrY	13489984	.	T	G,A,*	10481.23	PASS	AC=26,4,1;AF=0.371,0.057,
30186	chrY	13489987	.	A	G,C	5020.52	PASS	AC=15,4;AF=0.214,0.057;AN=70;Base
30187	chrY	13489989	.	T	G	16759.59	PASS	AC=33;AF=0.485;AN=68;Base
30188	chrY	13489990	.	C	A	1658.05	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
30189	chrY	13489991	.	C	T	313.44	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
30190	chrY	13489992	.	T	A,*	1540.46	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
30191	chrY	13489994	.	G	C,T	9886.82	PASS	AC=18,3;AF=0.257,0.043;AN=70;Base
30192	chrY	13489995	.	A	C	5139.76	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
30193	chrY	13490000	.	A	T	1046.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30194	chrY	13490001	.	C	T,G	23793.02	PASS	AC=19,25;AF=0.271,0.357;A
30195	chrY	13490002	.	T	A	902.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30196	chrY	13490005	.	T	C	12038.98	PASS	AC=29;AF=0.414;AN=70;Base
30197	chrY	13490006	.	A	T	779.40	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30198	chrY	13490007	.	T	A,C	3051.55	my_snp_filter	AC=2,4;AF=0.029,0.057;AN=
30199	chrY	13490011	.	C	T	4047.87	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
30200	chrY	13490013	.	G	C	220.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30201	chrY	13490020	.	C	A,T	2534.02	PASS	AC=4,4;AF=0.057,0.057;AN=70;BaseQ
30202	chrY	13490021	.	G	A	626.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30203	chrY	13490022	.	G	T	218.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30204	chrY	13490027	.	G	T	2131.94	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30205	chrY	13490031	.	T	C	769.66	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30206	chrY	13490033	.	T	C	110.37	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
30207	chrY	13490034	.	G	C	383.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30208	chrY	13490044	.	C	T	218.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30209	chrY	13490046	.	C	A	1770.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30210	chrY	13490047	.	C	T	147.46	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
30211	chrY	13490049	.	C	A	159.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30212	chrY	13490051	.	C	T	256.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30213	chrY	13490053	.	G	T,A	492.87	PASS	AC=4,3;AF=0.057,0.043;AN=70;BaseQ
30214	chrY	13490054	.	C	A,T	3015.07	PASS	AC=16,5;AF=0.229,0.071;AN=70;Base
30215	chrY	13490055	.	G	A	8265.43	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
30216	chrY	13490059	.	C	A	247.06	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30217	chrY	13490060	.	C	T	56.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30218	chrY	13490065	.	G	C	183.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30219	chrY	13490067	.	A	C	33.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30220	chrY	13490097	.	T	A	10318.99	PASS	AC=30;AF=0.517;AN=58;Base
30221	chrY	13490138	.	T	A	8314.37	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
30222	chrY	13490144	.	A	G	6532.29	my_snp_filter	AC=14;AF=0.206;AN=68;Base
30223	chrY	13490155	.	A	C	6905.43	my_snp_filter	AC=12;AF=0.171;AN=70;Base
30224	chrY	13490161	.	T	C	43.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30225	chrY	13490163	.	A	C	6912.89	my_snp_filter	AC=11;AF=0.157;AN=70;Base
30226	chrY	13490173	.	G	C	33.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30227	chrY	13490186	.	G	C	6822.34	my_snp_filter	AC=13;AF=0.186;AN=70;Base
30228	chrY	13490194	.	G	T	6548.05	my_snp_filter	AC=13;AF=0.186;AN=70;Base
30229	chrY	13490197	.	A	G	6322.96	my_snp_filter	AC=13;AF=0.186;AN=70;Base
30230	chrY	13490270	.	G	A	2239.88	my_snp_filter	AC=14;AF=0.200;AN=70;Base
30231	chrY	13490284	.	G	C	1860.59	my_snp_filter	AC=13;AF=0.186;AN=70;Base
30232	chrY	13490316	.	T	A	818.66	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
30233	chrY	13490454	.	C	A	612.17	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30234	chrY	13490503	.	T	A	1888.69	my_snp_filter	AC=15;AF=0.250;AN=60;Base
30235	chrY	13490563	.	G	A	149.67	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30236	chrY	13490663	.	G	A	490.84	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
30237	chrY	13490676	.	A	G	444.14	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
30238	chrY	13490724	.	C	A	2532.64	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30239	chrY	13490725	.	G	T	2535.30	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30240	chrY	13490793	.	G	T	1874.99	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30241	chrY	13490808	.	A	C	1793.39	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30242	chrY	13490834	.	C	A	2346.67	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
30243	chrY	13490836	.	A	G	2180.25	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
30244	chrY	13490893	.	C	T	547.42	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
30245	chrY	13490895	.	G	A	2486.62	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
30246	chrY	13490907	.	A	G	2151.48	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
30247	chrY	13490923	.	C	A	2146.92	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
30248	chrY	13490925	.	A	C	2117.07	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ

30249	chrY	13490932	.	T	A	2010.39	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
30250	chrY	13490986	.	T	C	682	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30251	chrY	13490991	.	A	C	797.09	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30252	chrY	13491002	.	G	A	339.28	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30253	chrY	13491009	.	C	A	227.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
30254	chrY	13491011	.	C	A	759.97	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30255	chrY	13491019	.	G	A	1220.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30256	chrY	13491032	.	C	G	630.92	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30257	chrY	13491034	.	A	C	627.60	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30258	chrY	13491053	.	C	T	532.30	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
30259	chrY	13491086	.	G	T	252.72	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
30260	chrY	13491095	.	T	C	485.05	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
30261	chrY	13491116	.	T	C	243.03	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30262	chrY	13491117	.	T	G	245.89	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30263	chrY	13491143	.	C	T	46.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
30264	chrY	13491145	.	A	G	46.54	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
30265	chrY	13491228	.	T	C	712.79	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
30266	chrY	13491249	.	C	A	730.97	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
30267	chrY	13491262	.	G	A	33.91	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
30268	chrY	13491304	.	A	G	38.05	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
30269	chrY	13491319	.	G	A	417.31	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
30270	chrY	13491657	.	C	G	66.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30271	chrY	13491708	.	T	C	60.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30272	chrY	13491729	.	G	A	80.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30273	chrY	13491745	.	A	T	79.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30274	chrY	13491758	.	A	T	85.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30275	chrY	13491792	.	A	G	46.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30276	chrY	13491794	.	G	C	46.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30277	chrY	13491838	.	C	A	109.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30278	chrY	13491845	.	T	G	6637.59	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30279	chrY	13491848	.	A	C	6921.92	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30280	chrY	13491907	.	T	C	15314.64	PASS	AC=32;AF=0.457;AN=70;BaseQ
30281	chrY	13491912	.	T	C	15288.64	PASS	AC=32;AF=0.457;AN=70;BaseQ
30282	chrY	13492025	.	A	G	3512.73	my_snp_filter	AC=12;AF=0.214;AN=56;BaseQ
30283	chrY	13492043	.	C	T	3167.08	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
30284	chrY	13492132	.	T	G	388.69	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30285	chrY	13492158	.	C	G	3338.63	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
30286	chrY	13492246	.	A	G	124.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30287	chrY	13492247	.	A	T	33204.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
30288	chrY	13492264	.	C	A	35056.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
30289	chrY	13492320	.	A	G	12883.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
30290	chrY	13492355	.	A	G	168.13	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
30291	chrY	13492646	.	C	T	226.76	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
30292	chrY	13492717	.	C	T	617.28	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30293	chrY	13492765	.	C	T	3293.13	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
30294	chrY	13492771	.	T	C	3250.87	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30295	chrY	13492775	.	A	T	3185.03	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
30296	chrY	13492824	.	G	T	1027.16	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30297	chrY	13492827	.	G	C	1658.30	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30298	chrY	13492876	.	C	A	99.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30299	chrY	13492886	.	T	C	224.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30300	chrY	13492942	.	C	T	2415.29	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
30301	chrY	13492973	.	T	C	5577.67	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
30302	chrY	13492975	.	C	T	5631.28	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
30303	chrY	13492977	.	G	A	5628.41	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
30304	chrY	13493016	.	G	T	1304.86	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
30305	chrY	13493033	.	G	A	130.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30306	chrY	13493046	.	C	A	1032.31	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
30307	chrY	13493079	.	C	G	317.89	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30308	chrY	13493105	.	T	C	236.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
30309	chrY	13493109	.	A	G	234.16	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
30310	chrY	13493133	.	A	C	70.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30311	chrY	13493935	.	C	G	1152.77	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
30312	chrY	13493959	.	C	T	1056.82	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
30313	chrY	13494015	.	G	C	2819.88	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
30314	chrY	13494024	.	T	G	2716.87	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
30315	chrY	13494028	.	T	C	2500.88	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
30316	chrY	13494052	.	T	A	162.57	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
30317	chrY	13494054	.	G	C	1232.06	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
30318	chrY	13494067	.	G	T	885.79	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
30319	chrY	13494068	.	T	G	883.98	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
30320	chrY	13494168	.	A	C	1014.51	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
30321	chrY	13494176	.	A	G	1177.67	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
30322	chrY	13494230	.	C	T	2072.03	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30323	chrY	13494390	.	A	G	2707.39	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
30324	chrY	13494397	.	T	C	2572.99	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=

30325	chrY	13494403	.	C	G	2589.90	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
30326	chrY	13494404	.	A	T	248.36	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
30327	chrY	13494435	.	C	T	186.80	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
30328	chrY	13494455	.	A	C	2079.35	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
30329	chrY	13494460	.	A	C	1628.52	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
30330	chrY	13494512	.	T	A	79.46	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
30331	chrY	13494560	.	T	A	644.03	PASS	AC=6;AF=0.273;AN=22;DP=71;FS=0.00
30332	chrY	13495000	.	G	C	538.31	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30333	chrY	13495003	.	A	C	791.99	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
30334	chrY	13495006	.	A	G	876.70	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
30335	chrY	13495012	.	A	G	1003.97	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
30336	chrY	13495077	.	T	C	3624.19	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30337	chrY	13495083	.	G	A	1047.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30338	chrY	13495092	.	A	G	3658.59	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30339	chrY	13495116	.	T	G	2740.42	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
30340	chrY	13495134	.	A	T	1485.56	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
30341	chrY	13495140	.	C	T	1014.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30342	chrY	13495203	.	C	T	3743.63	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
30343	chrY	13495207	.	T	C	3863.17	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
30344	chrY	13495259	.	T	G	4168.40	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
30345	chrY	13495327	.	T	C	2952.14	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30346	chrY	13495339	.	A	G	3469.29	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30347	chrY	13495343	.	T	C	3467.96	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30348	chrY	13495396	.	A	T	4743.68	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
30349	chrY	13495408	.	A	G	5839.83	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
30350	chrY	13495453	.	G	A	10564.71	PASS	AC=35;AF=0.500;AN=70;BaseQ
30351	chrY	13495538	.	C	T	9960.29	PASS	AC=31;AF=0.517;AN=60;BaseQRankSum=
30352	chrY	13495556	.	T	G	1092.16	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
30353	chrY	13495564	.	A	G	8573.90	PASS	AC=21;AF=0.477;AN=44;BaseQRankSum=
30354	chrY	13495739	.	C	T	5068.94	my_snp_filter	AC=10;AF=0.208;AN=48;BaseQ
30355	chrY	13495819	.	T	A	76.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30356	chrY	13495833	.	C	T	8873.35	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
30357	chrY	13495953	.	G	T	1074.18	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30358	chrY	13495992	.	C	G	366.21	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
30359	chrY	13496180	.	C	T	797	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30360	chrY	13496234	.	A	C	1380.53	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
30361	chrY	13496344	.	G	A	194.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30362	chrY	13496371	.	T	A	1518.24	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30363	chrY	13496385	.	G	A	55.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30364	chrY	13496413	.	T	G	2115.97	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30365	chrY	13496428	.	T	C	1944.92	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30366	chrY	13496474	.	C	T	6585.04	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
30367	chrY	13496541	.	C	G	2447.23	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30368	chrY	13496562	.	A	G	2121.16	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30369	chrY	13496576	.	A	T	90.25	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
30370	chrY	13496577	.	G	A	7631.20	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
30371	chrY	13496587	.	G	T	11310.73	PASS	AC=18;AF=0.257;AN=70;BaseQ
30372	chrY	13496620	.	C	A	3948.51	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
30373	chrY	13496635	.	G	C	282.22	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
30374	chrY	13496653	.	G	A	1168.82	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
30375	chrY	13496659	.	A	C	116.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30376	chrY	13496734	.	A	G	33542.25	PASS	AC=35;AF=0.500;AN=70;BaseQ
30377	chrY	13496777	.	T	C	56231.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
30378	chrY	13496781	.	G	A	57074.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
30379	chrY	13496915	.	C	T	11404.69	PASS	AC=32;AF=0.471;AN=68;BaseQ
30380	chrY	13496928	.	C	T	202.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30381	chrY	13496999	.	A	G	97.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30382	chrY	13497035	.	G	C	6898.95	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum=
30383	chrY	13497062	.	C	A	102.27	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30384	chrY	13497069	.	T	C	101.19	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
30385	chrY	13497084	.	G	C,*	7265.34	PASS	AC=5,26;AF=0.071,0.371;AN=70;BaseQ
30386	chrY	13497182	.	C	A	721.74	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30387	chrY	13497242	.	A	G	9728.86	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
30388	chrY	13497244	.	T	A	1936.18	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
30389	chrY	13497247	.	T	A	179.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30390	chrY	13497270	.	T	C	1064.33	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30391	chrY	13497289	.	A	G	11979.34	PASS	AC=32;AF=0.471;AN=68;BaseQ
30392	chrY	13497329	.	A	G	4988.93	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
30393	chrY	13497335	.	G	A,C	14417.26	PASS	AC=31,10;AF=0.456,0.147;AN=
30394	chrY	13497353	.	T	C	3937.94	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
30395	chrY	13497377	.	A	G	8267.48	PASS	AC=36;AF=0.529;AN=68;BaseQRankSum=
30396	chrY	13497482	.	A	C	12250.37	PASS	AC=12;AF=0.240;AN=50;BaseQ
30397	chrY	13497485	.	T	C	3517.76	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum=
30398	chrY	13497529	.	A	T	2859.48	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
30399	chrY	13497534	.	A	T	9009.60	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
30400	chrY	13497540	.	A	C	4371.22	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=

30401	chrY	13497581	.	G	A	5213.14	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
30402	chrY	13497585	.	T	C	1391.28	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30403	chrY	13497593	.	C	G	1295.08	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30404	chrY	13497675	.	A	G	7424.59	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum=
30405	chrY	13497691	.	A	G	148.22	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
30406	chrY	13497893	.	C	T	1055.07	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
30407	chrY	13497908	.	A	G	800.23	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
30408	chrY	13497949	.	A	C	2077.22	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
30409	chrY	13497997	.	A	G	11526.49	PASS	AC=29;AF=0.414;AN=70;Base
30410	chrY	13498002	.	T	A	11918.52	PASS	AC=29;AF=0.414;AN=70;Base
30411	chrY	13498003	.	G	A	11885.52	PASS	AC=29;AF=0.414;AN=70;Base
30412	chrY	13498039	.	T	G	7493.53	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
30413	chrY	13498059	.	A	G	6507.20	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
30414	chrY	13498123	.	C	T	6598.29	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
30415	chrY	13498124	.	A	G	6681.78	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
30416	chrY	13498156	.	G	A	235.78	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
30417	chrY	13498224	.	G	A	13998.70	PASS	AC=34;AF=0.486;AN=70;Base
30418	chrY	13498236	.	G	A	1602.79	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30419	chrY	13498254	.	G	A	12094.72	PASS	AC=35;AF=0.500;AN=70;Base
30420	chrY	13498266	.	A	C	196.58	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30421	chrY	13498289	.	A	G	8027.33	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
30422	chrY	13498329	.	C	T	3711.92	my_snp_filter	AC=19;AF=0.339;AN=56;Base
30423	chrY	13498378	.	T	A	2924.80	my_snp_filter	AC=10;AF=0.333;AN=30;Base
30424	chrY	13498380	.	T	C	2922.26	my_snp_filter	AC=10;AF=0.313;AN=32;Base
30425	chrY	13498417	.	T	C	1632.06	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
30426	chrY	13498426	.	C	T	1440.62	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
30427	chrY	13498780	.	A	G	92.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30428	chrY	13498786	.	C	G	127.96	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30429	chrY	13498814	.	T	C	970.85	my_snp_filter	AC=14;AF=0.200;AN=70;Base
30430	chrY	13498829	.	G	A	6512.83	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
30431	chrY	13498833	.	A	G	6928.32	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
30432	chrY	13498854	.	T	A	8925.11	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
30433	chrY	13498926	.	T	C	10976.85	PASS	AC=32;AF=0.457;AN=70;Base
30434	chrY	13498939	.	C	T	9984.80	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
30435	chrY	13498994	.	A	G	109.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30436	chrY	13499003	.	G	A	177.44	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30437	chrY	13499008	.	T	A	7791.34	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
30438	chrY	13499023	.	C	A	7622.48	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
30439	chrY	13499059	.	G	A	37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30440	chrY	13499061	.	G	A	1729.48	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
30441	chrY	13499179	.	C	T	57.93	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
30442	chrY	13499203	.	C	T	532.11	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
30443	chrY	13499210	.	A	G	691.33	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
30444	chrY	13499226	.	C	T	918.56	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
30445	chrY	13499311	.	T	C	111.49	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
30446	chrY	13499330	.	G	A	5664.78	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
30447	chrY	13499332	.	G	T	5097.48	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
30448	chrY	13499346	.	C	A	5095.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
30449	chrY	13499357	.	G	T	3583.33	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
30450	chrY	13499445	.	A	C	59.27	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
30451	chrY	13499484	.	T	C	170.36	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
30452	chrY	13499706	.	G	A	1087.25	PASS	AC=6;AF=0.086;AN=70;DP=524;FS=0.0
30453	chrY	13499820	.	C	T	846.48	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
30454	chrY	13499837	.	A	G	1110.78	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQ
30455	chrY	13499839	.	A	G	1121.17	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
30456	chrY	13499880	.	T	A	3914.13	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
30457	chrY	13499887	.	T	C	4055.68	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
30458	chrY	13499987	.	A	C	1588.14	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
30459	chrY	13500049	.	G	T	2496.31	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30460	chrY	13500058	.	A	G	2378.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30461	chrY	13500089	.	G	A	227.80	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
30462	chrY	13500139	.	C	T	3997.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30463	chrY	13500208	.	A	G	1961.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30464	chrY	13500242	.	G	A	1779.21	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30465	chrY	13500318	.	T	G	9440.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
30466	chrY	13500323	.	A	T	8709.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
30467	chrY	13500340	.	G	A	9783.75	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
30468	chrY	13500341	.	T	C	9801.75	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
30469	chrY	13500344	.	C	T	497.67	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQ
30470	chrY	13500366	.	A	T	374.80	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQ
30471	chrY	13500371	.	A	G	38.06	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
30472	chrY	13500391	.	G	A	367.02	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
30473	chrY	13500400	.	G	C	884.62	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
30474	chrY	13500410	.	T	G	13102.86	PASS	AC=19;AF=0.365;AN=52;Base
30475	chrY	13500424	.	T	C	7166.88	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
30476	chrY	13500434	.	C	T	1849.29	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=

30477	chrY	13500438	.	G	A	86.96	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
30478	chrY	13500443	.	T	C	11611.03	PASS	AC=14;AF=0.226;AN=62;BaseQ
30479	chrY	13500453	.	A	G	10463.99	PASS	AC=16;AF=0.267;AN=60;BaseQ
30480	chrY	13500598	.	A	G	8525.70	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
30481	chrY	13500604	.	A	T	2687.85	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
30482	chrY	13500639	.	C	T	349.77	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30483	chrY	13500658	.	T	A	3351.44	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
30484	chrY	13500729	.	A	G	1563.79	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
30485	chrY	13500730	.	T	C	31.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
30486	chrY	13500732	.	T	G	1501.70	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
30487	chrY	13500768	.	G	T	481.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
30488	chrY	13500769	.	A	C	1296.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30489	chrY	13500773	.	A	G	1292.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30490	chrY	13500776	.	T	C	1111.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
30491	chrY	13500828	.	A	G	237.46	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30492	chrY	13500860	.	G	A	643.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
30493	chrY	13500887	.	T	G	508.99	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum
30494	chrY	13500989	.	A	T	599.81	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum
30495	chrY	13501004	.	G	A	1229.98	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum
30496	chrY	13501064	.	T	A	1537.80	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum
30497	chrY	13501089	.	G	A	1843.19	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum
30498	chrY	13501212	.	A	G	2629.83	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum
30499	chrY	13501222	.	A	T,*	225.59	my_snp_filter	AC=2,2;AF=0.063,0.063;AN=
30500	chrY	13501247	.	G	A	63.46	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
30501	chrY	13501287	.	T	C	3429.02	PASS	AC=14;AF=0.259;AN=54;BaseQRankSum
30502	chrY	13501332	.	A	T	5531.44	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum
30503	chrY	13501337	.	T	C	5427.48	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
30504	chrY	13501362	.	C	G	2596.36	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
30505	chrY	13501373	.	C	A	1702.05	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
30506	chrY	13501384	.	T	C	1338.81	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
30507	chrY	13501391	.	A	G	81.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
30508	chrY	13501398	.	A	G	1188.89	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
30509	chrY	13501413	.	C	T	1564.76	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
30510	chrY	13501422	.	A	G	1527.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
30511	chrY	13501426	.	G	C	1744.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
30512	chrY	13501471	.	A	G	2428.27	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30513	chrY	13501498	.	G	A	2033.75	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
30514	chrY	13501528	.	A	T	1876.27	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30515	chrY	13501657	.	A	T	152.19	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum
30516	chrY	13501688	.	A	G	195.20	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum
30517	chrY	13501793	.	A	T	1049.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30518	chrY	13501800	.	T	A	1309.97	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
30519	chrY	13501817	.	T	C	57.31	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
30520	chrY	13501850	.	C	G	672.21	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum
30521	chrY	13501856	.	T	C	125.21	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
30522	chrY	13501858	.	T	C	70.22	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
30523	chrY	13501921	.	T	G	2588.67	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
30524	chrY	13501929	.	A	T	39.46	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
30525	chrY	13501938	.	T	C	33.15	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
30526	chrY	13501943	.	C	A	100.24	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum
30527	chrY	13501963	.	A	G	5404.69	my_snp_filter	AC=11;AF=0.220;AN=50;BaseQ
30528	chrY	13501983	.	G	C	6451.11	my_snp_filter	AC=13;AF=0.283;AN=46;BaseQ
30529	chrY	13501991	.	A	T	4980.49	PASS	AC=13;AF=0.283;AN=46;BaseQRankSum
30530	chrY	13502048	.	C	T	3904.15	PASS	AC=19;AF=0.500;AN=38;BaseQRankSum
30531	chrY	13502130	.	G	A	9947.52	PASS	AC=17;AF=0.405;AN=42;BaseQRankSum
30532	chrY	13502131	.	G	A	4149.10	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum
30533	chrY	13502161	.	A	T	650.58	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum
30534	chrY	13502230	.	G	A	562.54	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
30535	chrY	13502235	.	T	A	8675.94	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
30536	chrY	13502238	.	A	G	8788.31	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
30537	chrY	13502259	.	G	A	7127.39	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
30538	chrY	13502269	.	G	A	6062.97	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
30539	chrY	13502271	.	A	T	6064.36	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
30540	chrY	13502281	.	T	C	5535.10	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
30541	chrY	13502282	.	G	T	5451.56	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
30542	chrY	13502311	.	C	T	2503.59	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
30543	chrY	13502359	.	C	T	88.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
30544	chrY	13502398	.	A	G	1617.18	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30545	chrY	13502411	.	G	A	1610.06	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30546	chrY	13502453	.	G	T	1008.12	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30547	chrY	13502468	.	A	G	664.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
30548	chrY	13502510	.	T	C	679.71	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
30549	chrY	13502542	.	G	A	1914.17	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
30550	chrY	13502609	.	G	A	2982.49	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
30551	chrY	13502656	.	A	G	623.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
30552	chrY	13502674	.	C	A	83.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

30553	chrY	13502682	.	T	C	85.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30554	chrY	13502690	.	A	C	2143.36	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
30555	chrY	13502696	.	T	C	1969.15	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30556	chrY	13502712	.	T	C	1145.47	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30557	chrY	13502822	.	A	T	1935.92	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
30558	chrY	13502851	.	C	T	234.03	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
30559	chrY	13502853	.	T	A	1387.55	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
30560	chrY	13502916	.	A	G	49.97	PASS	AC=2;AF=0.045;AN=44;DP=324;FS=0.0
30561	chrY	13502936	.	A	C	971.70	PASS	AC=12;AF=0.333;AN=36;BaseQRankSum=
30562	chrY	13502953	.	C	T	291.17	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
30563	chrY	13502960	.	A	G	49.64	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
30564	chrY	13503073	.	G	A	393.87	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
30565	chrY	13503094	.	A	T	53.32	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
30566	chrY	13503096	.	T	G	285.62	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
30567	chrY	13503131	.	A	C	668.28	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
30568	chrY	13503141	.	C	G	110.43	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
30569	chrY	13503158	.	G	A	609.83	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
30570	chrY	13503160	.	A	G	677.29	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
30571	chrY	13503163	.	T	A	63.46	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
30572	chrY	13503195	.	A	G	519.17	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
30573	chrY	13503200	.	G	A	2127.45	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30574	chrY	13503202	.	A	G	2081.78	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30575	chrY	13503298	.	C	T	3228.29	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
30576	chrY	13503362	.	G	A	2620.13	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
30577	chrY	13503429	.	T	C	112.23	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
30578	chrY	13503438	.	A	T	2744.30	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30579	chrY	13503471	.	A	G	4890.06	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
30580	chrY	13503526	.	T	C	117.96	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
30581	chrY	13503528	.	T	C	2894.26	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30582	chrY	13503538	.	T	C	81.43	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
30583	chrY	13503552	.	G	T	2322.37	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
30584	chrY	13503563	.	G	A	4643.54	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
30585	chrY	13503599	.	G	A	4031.88	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
30586	chrY	13503620	.	T	G	3900.70	PASS	AC=6;AF=0.375;AN=16;BaseQRankSum=
30587	chrY	13503636	.	T	C	4053.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
30588	chrY	13503640	.	T	C	3969.20	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
30589	chrY	13503675	.	A	T	3634.33	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
30590	chrY	13503677	.	G	A	3597.45	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
30591	chrY	13503749	.	A	G	2187.83	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
30592	chrY	13503768	.	A	G	1299.09	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
30593	chrY	13503798	.	C	A	2011.15	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
30594	chrY	13503842	.	A	C	558.35	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
30595	chrY	13503895	.	A	G	315.32	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
30596	chrY	13503912	.	A	C	248.20	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
30597	chrY	13504123	.	A	G	93.56	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
30598	chrY	13504210	.	G	A	2908.49	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
30599	chrY	13504252	.	C	T	3969.02	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
30600	chrY	13504306	.	A	G	4087.01	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
30601	chrY	13504405	.	A	G	178.56	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
30602	chrY	13504424	.	A	G	189.58	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
30603	chrY	13504431	.	G	A	456.36	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
30604	chrY	13504436	.	G	T	205.51	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
30605	chrY	13504441	.	T	C	4209.71	PASS	AC=17;AF=0.425;AN=40;BaseQRankSum=
30606	chrY	13504471	.	T	C	5941.83	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
30607	chrY	13504474	.	G	A	5952.82	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
30608	chrY	13504489	.	A	G	5584.43	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=
30609	chrY	13504519	.	G	A	149.76	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
30610	chrY	13504630	.	C	G	2335.06	my_snp_filter	AC=10;AF=0.167;AN=60;BaseQ
30611	chrY	13504632	.	G	A	730.87	PASS	AC=13;AF=0.325;AN=40;BaseQRankSum=
30612	chrY	13504673	.	C	T	3355.43	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30613	chrY	13504674	.	A	G	3355.21	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30614	chrY	13504675	.	C	T	3355.20	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
30615	chrY	13504702	.	C	T	859.85	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
30616	chrY	13504705	.	G	C	805.55	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
30617	chrY	13504724	.	T	G	43.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
30618	chrY	13504823	.	G	T	1016.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30619	chrY	13504824	.	G	T	1019.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30620	chrY	13504848	.	A	G	1333.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30621	chrY	13504883	.	C	T	2366.07	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
30622	chrY	13504905	.	C	A	212.82	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
30623	chrY	13504932	.	T	C	6825.95	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
30624	chrY	13505049	.	A	C,*	2842.54	PASS	AC=7,1;AF=0.350,0.050;AN=20;BaseQ
30625	chrY	13505086	.	T	C	4490.97	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30626	chrY	13505111	.	T	A	5343.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30627	chrY	13505128	.	A	G	5330.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30628	chrY	13505130	.	T	G	5329.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=

30629	chrY	13505149	.	A	G	5233.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30630	chrY	13505190	.	G	T	6491.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
30631	chrY	13505192	.	C	T	6516.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
30632	chrY	13505201	.	T	G	6326.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
30633	chrY	13505230	.	A	G	2666.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
30634	chrY	13505284	.	T	A	1224.07	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
30635	chrY	13505361	.	T	C	185.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30636	chrY	13505365	.	T	C	187.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30637	chrY	13505936	.	A	G	145.08	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30638	chrY	13506065	.	G	A	182.89	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
30639	chrY	13506068	.	A	G	179.33	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
30640	chrY	13506141	.	T	G	304.25	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
30641	chrY	13506170	.	T	A	364.88	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
30642	chrY	13506199	.	T	G	686.76	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
30643	chrY	13506237	.	C	G	1720.75	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
30644	chrY	13506379	.	A	G	34.64	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
30645	chrY	13506387	.	T	A	2092.85	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ
30646	chrY	13506468	.	T	A	53.05	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
30647	chrY	13506562	.	A	G	8741.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30648	chrY	13506576	.	G	A	9182.74	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30649	chrY	13506601	.	G	T	7631.74	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30650	chrY	13506615	.	T	A	6871.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30651	chrY	13506616	.	A	G	1942.64	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30652	chrY	13506630	.	G	C	5566.56	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30653	chrY	13506651	.	T	G	4806.71	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30654	chrY	13506671	.	C	A	5376.10	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30655	chrY	13506684	.	T	A	5491.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30656	chrY	13506753	.	T	C	11475.86	PASS	AC=21;AF=0.318;AN=66;BaseQ
30657	chrY	13506771	.	A	T	12120.29	PASS	AC=21;AF=0.339;AN=62;BaseQ
30658	chrY	13506815	.	G	A	3085.53	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30659	chrY	13506828	.	G	C	2763.40	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
30660	chrY	13506838	.	T	A	1992.48	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
30661	chrY	13506844	.	T	C	9007.48	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
30662	chrY	13506845	.	G	T	1675.44	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
30663	chrY	13506864	.	T	A	1960.62	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
30664	chrY	13506882	.	G	A	2163.83	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
30665	chrY	13506929	.	A	G	10197.36	PASS	AC=34;AF=0.500;AN=68;BaseQ
30666	chrY	13506941	.	T	C	2797.39	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
30667	chrY	13506950	.	T	G	31.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
30668	chrY	13506967	.	G	A	14966.24	PASS	AC=24;AF=0.444;AN=54;BaseQ
30669	chrY	13506968	.	G	A	15033.24	PASS	AC=24;AF=0.444;AN=54;BaseQ
30670	chrY	13506974	.	T	C	14453.43	PASS	AC=24;AF=0.429;AN=56;BaseQ
30671	chrY	13507005	.	C	T	3919.15	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
30672	chrY	13507025	.	G	T	11862.08	PASS	AC=12;AF=0.300;AN=40;BaseQ
30673	chrY	13507041	.	T	A	130.26	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
30674	chrY	13507055	.	C	G	2094.28	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
30675	chrY	13507058	.	G	A	3233.06	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
30676	chrY	13507074	.	T	G	1920.33	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
30677	chrY	13507085	.	G	T	10950.80	PASS	AC=10;AF=0.385;AN=26;BaseQ
30678	chrY	13507132	.	A	G	7459.45	my_snp_filter	AC=15;AF=0.313;AN=48;BaseQ
30679	chrY	13507146	.	G	T	7158.47	my_snp_filter	AC=14;AF=0.269;AN=52;BaseQ
30680	chrY	13507147	.	G	A	7126.47	my_snp_filter	AC=14;AF=0.269;AN=52;BaseQ
30681	chrY	13507174	.	C	A	1765.42	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
30682	chrY	13507182	.	A	G	4324.80	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQ
30683	chrY	13507214	.	T	C	3645.16	my_snp_filter	AC=18;AF=0.281;AN=64;BaseQ
30684	chrY	13507242	.	T	G	7473.28	my_snp_filter	AC=21;AF=0.328;AN=64;BaseQ
30685	chrY	13507262	.	A	G	8053.49	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
30686	chrY	13507292	.	A	G	6649.55	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
30687	chrY	13507305	.	T	A	6682.78	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
30688	chrY	13507307	.	T	C	6613.16	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
30689	chrY	13507323	.	A	G	123.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30690	chrY	13507331	.	A	T	4596.22	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
30691	chrY	13507393	.	C	T	1318.19	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
30692	chrY	13507402	.	A	G	1078.10	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
30693	chrY	13507416	.	C	A	843.41	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
30694	chrY	13507428	.	T	G	593.67	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
30695	chrY	13507457	.	C	A,G	438.53	PASS	AC=3,3;AF=0.088,0.088;AN=34;BaseQ
30696	chrY	13507461	.	G	C	381.02	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
30697	chrY	13507481	.	C	T	98.38	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
30698	chrY	13507536	.	A	C	109.98	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
30699	chrY	13507578	.	T	G	175.78	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
30700	chrY	13507611	.	A	G	599.69	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
30701	chrY	13507703	.	T	C	205.32	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
30702	chrY	13507721	.	A	G	43.60	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
30703	chrY	13507807	.	G	A	606.41	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30704	chrY	13507808	.	A	G	606.44	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=

30705	chrY	13507854	.	C	T	1130.98	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30706	chrY	13507869	.	G	T	1197.91	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30707	chrY	13507875	.	T	A	1128.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30708	chrY	13507881	.	A	C	1145.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30709	chrY	13507927	.	G	A	250.97	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30710	chrY	13507935	.	C	A	690.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30711	chrY	13507994	.	A	T	41.09	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
30712	chrY	13508004	.	A	G	30.15	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
30713	chrY	13508016	.	T	A	2335.90	my_snp_filter	AC=22;AF=0.314;AN=70;Base
30714	chrY	13508027	.	A	G	2516.56	my_snp_filter	AC=22;AF=0.333;AN=66;Base
30715	chrY	13508086	.	T	C	745.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30716	chrY	13508110	.	A	G	8823.48	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
30717	chrY	13508114	.	A	C	8809.49	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
30718	chrY	13508154	.	T	A	78.63	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
30719	chrY	13508193	.	G	C	59	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
30720	chrY	13508194	.	T	C	104.84	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
30721	chrY	13508229	.	G	A	2021.77	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
30722	chrY	13508231	.	G	A	2155.91	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
30723	chrY	13508300	.	C	T	424.79	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
30724	chrY	13508327	.	A	T	847.11	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
30725	chrY	13508366	.	A	C	371.35	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30726	chrY	13508402	.	A	G	88.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30727	chrY	13508454	.	A	G	1344.28	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
30728	chrY	13508466	.	G	T	1547.17	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
30729	chrY	13508470	.	T	C	1572.13	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
30730	chrY	13508507	.	A	G	1490.88	my_snp_filter	AC=12;AF=0.171;AN=70;Base
30731	chrY	13508530	.	T	A	98.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30732	chrY	13508587	.	T	A	470.09	PASS	AC=4;AF=0.059;AN=68;DP=519;FS=0.0
30733	chrY	13508594	.	G	T	3941.67	my_snp_filter	AC=15;AF=0.221;AN=68;Base
30734	chrY	13508603	.	G	A	3155.58	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30735	chrY	13508679	.	G	A	5042.33	my_snp_filter	AC=26;AF=0.433;AN=60;Base
30736	chrY	13508681	.	A	G	5160.79	my_snp_filter	AC=26;AF=0.448;AN=58;Base
30737	chrY	13508697	.	T	G	3435.04	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
30738	chrY	13508715	.	T	C	9405.26	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
30739	chrY	13508798	.	T	C	17342.92	PASS	AC=36;AF=0.514;AN=70;Base
30740	chrY	13508841	.	A	G	10609.75	PASS	AC=35;AF=0.500;AN=70;Base
30741	chrY	13508896	.	T	G	5353.10	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
30742	chrY	13508957	.	T	C	60.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30743	chrY	13509024	.	C	A	282.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30744	chrY	13509025	.	A	C	2045.43	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
30745	chrY	13509078	.	C	G	4034.52	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
30746	chrY	13509102	.	C	T	150.27	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
30747	chrY	13509128	.	C	G	5137.88	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
30748	chrY	13509148	.	T	A	892.54	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
30749	chrY	13509185	.	C	A	2740.26	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
30750	chrY	13509223	.	G	A	117.34	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
30751	chrY	13509257	.	T	C	2021.19	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
30752	chrY	13509288	.	C	T	927.28	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
30753	chrY	13509295	.	A	G	99.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30754	chrY	13509296	.	G	C	99.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30755	chrY	13509317	.	A	G	337.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
30756	chrY	13509325	.	C	T	300.63	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30757	chrY	13509395	.	T	G	56.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30758	chrY	13509450	.	T	C	120.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30759	chrY	13509526	.	T	G	943.68	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30760	chrY	13509543	.	A	G	745.27	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
30761	chrY	13509606	.	A	C	401.01	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
30762	chrY	13509654	.	G	T	507.43	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
30763	chrY	13509702	.	C	T	265.78	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
30764	chrY	13509881	.	A	G	71.42	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
30765	chrY	13509957	.	G	A	1110.84	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30766	chrY	13509965	.	G	A	1131.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30767	chrY	13509983	.	A	G	1259.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30768	chrY	13510036	.	C	A	845.25	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30769	chrY	13510091	.	G	A	824.52	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
30770	chrY	13510123	.	T	G	2217.74	PASS	AC=11;AF=0.250;AN=44;BaseQRankSum=
30771	chrY	13510134	.	T	A	179.55	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
30772	chrY	13510139	.	A	G	2278.23	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
30773	chrY	13510187	.	A	G	95.88	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
30774	chrY	13510219	.	A	G	1091.97	my_snp_filter	AC=11;AF=0.162;AN=68;Base
30775	chrY	13510279	.	T	G	1291.61	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30776	chrY	13510281	.	T	C	453.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
30777	chrY	13510304	.	G	A	814.14	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
30778	chrY	13510315	.	C	T	516.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30779	chrY	13510448	.	T	C	31.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
30780	chrY	13510464	.	T	A	60.05	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=

30781	chrY	13510640	.	T	C	232.37	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
30782	chrY	13510644	.	C	T	272.76	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
30783	chrY	13510663	.	T	C	301.68	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
30784	chrY	13510670	.	A	C	333.08	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
30785	chrY	13510711	.	T	C	2232.83	my_snp_filter	AC=18;AF=0.500;AN=36;BaseQ
30786	chrY	13510745	.	A	T	211.42	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
30787	chrY	13510771	.	G	C	7582.42	my_snp_filter	AC=32;AF=0.471;AN=68;BaseQ
30788	chrY	13510775	.	G	T	7697.83	my_snp_filter	AC=31;AF=0.456;AN=68;BaseQ
30789	chrY	13510796	.	C	A	8294.50	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
30790	chrY	13510808	.	A	G	9331.80	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
30791	chrY	13510810	.	G	A	752.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30792	chrY	13510820	.	T	C	59.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30793	chrY	13510823	.	T	C	9251.95	PASS	AC=32;AF=0.485;AN=66;BaseQRankSum=
30794	chrY	13510841	.	T	C	8256.77	PASS	AC=30;AF=0.469;AN=64;BaseQRankSum=
30795	chrY	13510852	.	A	G	144.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30796	chrY	13510943	.	T	C	206.18	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
30797	chrY	13510967	.	T	C	1897.49	my_snp_filter	AC=14;AF=0.333;AN=42;BaseQ
30798	chrY	13511019	.	T	G	954.86	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
30799	chrY	13511050	.	G	C	1082.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30800	chrY	13511060	.	C	G	984.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30801	chrY	13511110	.	C	A	623.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30802	chrY	13511115	.	A	T	632.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30803	chrY	13511130	.	T	G	468.03	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30804	chrY	13511131	.	T	C	467.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30805	chrY	13511147	.	T	C	9688.08	PASS	AC=70;AF=1.00;AN=70;DP=343;FS=0.0
30806	chrY	13511179	.	C	T	1046.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
30807	chrY	13511197	.	A	G	1252.94	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
30808	chrY	13511202	.	A	C	1783.30	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
30809	chrY	13511299	.	A	T	199.64	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
30810	chrY	13511302	.	T	C	176.77	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
30811	chrY	13511598	.	T	G	169.90	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
30812	chrY	13511605	.	C	A	901.34	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
30813	chrY	13511661	.	C	G	158.48	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
30814	chrY	13511717	.	C	T	147.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30815	chrY	13511730	.	T	C	79.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
30816	chrY	13511749	.	T	A	41.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30817	chrY	13511757	.	C	T	32.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
30818	chrY	13511876	.	T	A	716.03	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30819	chrY	13511885	.	T	C	744.14	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
30820	chrY	13511886	.	G	A	744.61	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
30821	chrY	13511970	.	T	A	118.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30822	chrY	13511994	.	T	G	106.40	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
30823	chrY	13512208	.	A	C	123.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
30824	chrY	13512285	.	C	A	1085.51	PASS	AC=4;AF=0.057;AN=70;DP=646;FS=0.0
30825	chrY	13512418	.	C	T	322.70	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
30826	chrY	13512434	.	T	C	386.41	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
30827	chrY	13512468	.	T	A	572.54	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
30828	chrY	13512551	.	A	G	1662.72	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30829	chrY	13512559	.	G	A	1426.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30830	chrY	13512567	.	T	A	1426.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30831	chrY	13512570	.	C	T	108.96	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
30832	chrY	13512610	.	A	T	892.50	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
30833	chrY	13512623	.	A	G	269.50	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
30834	chrY	13512627	.	C	T	826.23	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
30835	chrY	13512633	.	A	G	136.25	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
30836	chrY	13512645	.	G	A	498.08	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQ
30837	chrY	13512833	.	A	G	162.28	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
30838	chrY	13512843	.	G	A	63.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30839	chrY	13513076	.	G	A	340.69	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
30840	chrY	13513077	.	G	A	259.43	PASS	AC=2;AF=0.056;AN=36;DP=203;FS=0.0
30841	chrY	13513078	.	T	G	343.22	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
30842	chrY	13513093	.	G	T	543.49	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
30843	chrY	13513099	.	A	G	549.57	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
30844	chrY	13513100	.	A	T	551.65	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
30845	chrY	13513130	.	A	G	1666.62	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum=
30846	chrY	13513136	.	G	C	1754.31	my_snp_filter	AC=16;AF=0.320;AN=50;BaseQ
30847	chrY	13513180	.	A	C	3216.43	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum=
30848	chrY	13513186	.	G	A	2762.34	PASS	AC=41;AF=0.641;AN=64;BaseQRankSum=
30849	chrY	13513187	.	A	G	3259.01	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
30850	chrY	13513220	.	A	G	1678.72	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
30851	chrY	13513260	.	A	G	3739.89	my_snp_filter	AC=17;AF=0.315;AN=54;BaseQ
30852	chrY	13513412	.	C	T	538.32	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
30853	chrY	13513507	.	C	A	5510.05	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
30854	chrY	13513551	.	A	C	5604.36	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
30855	chrY	13513622	.	A	G	384.21	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
30856	chrY	13513655	.	T	A	350.30	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ

30857	chrY	13513666	.	G	T	1699.92	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30858	chrY	13513671	.	C	A	1815.92	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30859	chrY	13513672	.	G	T	5167.88	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
30860	chrY	13513673	.	T	C	1823.15	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30861	chrY	13513709	.	C	T	975.26	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30862	chrY	13513839	.	T	C	9508.76	PASS	AC=18;AF=0.375;AN=48;BaseQRankSum
30863	chrY	13513848	.	T	A	9741.45	PASS	AC=19;AF=0.452;AN=42;BaseQRankSum
30864	chrY	13513852	.	T	A	46.04	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
30865	chrY	13513858	.	C	T	2748.63	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
30866	chrY	13513895	.	G	A	576.47	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
30867	chrY	13513955	.	A	T,G	9575.96	PASS	AC=11,9;AF=0.177,0.145;AN=62;BaseQ
30868	chrY	13514023	.	C	T	14849.26	PASS	AC=9;AF=0.132;AN=68;BaseQ
30869	chrY	13514034	.	T	G	14069.41	PASS	AC=9;AF=0.132;AN=68;BaseQ
30870	chrY	13514038	.	A	C	1592.62	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30871	chrY	13514039	.	T	C	3049.11	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30872	chrY	13514085	.	A	G	3720.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30873	chrY	13514097	.	C	T	176.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30874	chrY	13514118	.	A	C	4428.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30875	chrY	13514121	.	A	C	4535.35	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
30876	chrY	13514126	.	A	C	4423.36	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
30877	chrY	13514141	.	T	A	10091.28	PASS	AC=43;AF=0.694;AN=62;BaseQ
30878	chrY	13514166	.	A	G	9403.54	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
30879	chrY	13514189	.	A	G	11208.56	PASS	AC=10;AF=0.147;AN=68;BaseQ
30880	chrY	13514191	.	G	T	11262.25	PASS	AC=10;AF=0.147;AN=68;BaseQ
30881	chrY	13514207	.	C	A	5190.64	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
30882	chrY	13514211	.	A	C	800.97	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
30883	chrY	13514243	.	T	C	874.41	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
30884	chrY	13514248	.	C	T	86.26	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
30885	chrY	13514251	.	C	T	3253.07	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
30886	chrY	13514291	.	G	T	4978.94	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
30887	chrY	13514338	.	C	T	190.97	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
30888	chrY	13514378	.	A	C	2896.08	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30889	chrY	13514383	.	T	C	527.33	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
30890	chrY	13514442	.	C	T	1190.90	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
30891	chrY	13514483	.	T	G	2993.44	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30892	chrY	13514493	.	T	G	2956.85	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
30893	chrY	13514506	.	A	C	2924.23	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30894	chrY	13514513	.	G	A	2854.64	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
30895	chrY	13514518	.	G	A	2727.62	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
30896	chrY	13514540	.	G	C	1927.97	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30897	chrY	13514547	.	C	T	1838.28	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
30898	chrY	13514554	.	T	C	1786.63	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
30899	chrY	13514591	.	T	C	859.05	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
30900	chrY	13514609	.	G	T	461.83	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
30901	chrY	13514622	.	A	G	162.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
30902	chrY	13514633	.	G	C	52.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30903	chrY	13514643	.	T	G	43.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30904	chrY	13514649	.	T	C	43.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30905	chrY	13514670	.	T	C	102.13	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
30906	chrY	13514677	.	T	G	103	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
30907	chrY	13514707	.	G	T	597.30	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
30908	chrY	13514719	.	A	T	772.44	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
30909	chrY	13514810	.	C	G	9232.72	my_snp_filter	AC=19;AF=0.339;AN=56;BaseQ
30910	chrY	13514811	.	C	T	9234.70	my_snp_filter	AC=19;AF=0.339;AN=56;BaseQ
30911	chrY	13514836	.	A	C	11293.01	PASS	AC=23;AF=0.397;AN=58;BaseQ
30912	chrY	13514851	.	G	A	11698.30	PASS	AC=27;AF=0.466;AN=58;BaseQ
30913	chrY	13514899	.	G	T	15789.02	PASS	AC=36;AF=0.545;AN=66;BaseQ
30914	chrY	13514917	.	G	A	16495.08	PASS	AC=36;AF=0.545;AN=66;BaseQ
30915	chrY	13514964	.	G	A	59.62	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
30916	chrY	13514970	.	T	G	19423.50	PASS	AC=34;AF=0.515;AN=66;BaseQ
30917	chrY	13514971	.	T	C	19630.50	PASS	AC=34;AF=0.515;AN=66;BaseQ
30918	chrY	13514981	.	T	C	20662.99	PASS	AC=33;AF=0.500;AN=66;BaseQ
30919	chrY	13514988	.	A	G	20914.76	PASS	AC=33;AF=0.500;AN=66;BaseQ
30920	chrY	13515061	.	A	T	105.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
30921	chrY	13515090	.	A	C	50.43	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
30922	chrY	13515111	.	G	A	9945.13	PASS	AC=26;AF=0.481;AN=54;BaseQRankSum=
30923	chrY	13515112	.	T	C	9946.45	PASS	AC=26;AF=0.481;AN=54;BaseQRankSum=
30924	chrY	13515161	.	A	C	5058.65	PASS	AC=12;AF=0.316;AN=38;BaseQRankSum=
30925	chrY	13515238	.	A	G	991.59	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
30926	chrY	13515252	.	G	C	38.28	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
30927	chrY	13515257	.	T	G	5575.21	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30928	chrY	13515292	.	A	G	4832.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30929	chrY	13515301	.	C	A	4805.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30930	chrY	13515313	.	A	G	4699.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30931	chrY	13515340	.	G	T	3091.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30932	chrY	13515395	.	G	A	5455.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=

30933	chrY	13515485	.	C	A	6117.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30934	chrY	13515516	.	T	C	10493.74	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
30935	chrY	13515526	.	T	C	10461.05	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
30936	chrY	13515549	.	T	A	6463.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30937	chrY	13515580	.	T	C	2579.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30938	chrY	13515612	.	T	C	1371.79	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30939	chrY	13515666	.	C	A	1407.29	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
30940	chrY	13515671	.	T	C	1332.36	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
30941	chrY	13515676	.	T	C	1136.46	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
30942	chrY	13515677	.	G	A	1014.06	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
30943	chrY	13515701	.	A	T	2090.03	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
30944	chrY	13515707	.	A	G	3104.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30945	chrY	13515709	.	T	G	3106.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30946	chrY	13515745	.	C	T	4595.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
30947	chrY	13515762	.	C	T	6162.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
30948	chrY	13515809	.	G	A	50.74	PASS	AC=2;AF=0.063;AN=32;DP=479;FS=0.0
30949	chrY	13515814	.	T	C	50.74	PASS	AC=2;AF=0.063;AN=32;DP=479;FS=0.0
30950	chrY	13515912	.	G	C	4452.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30951	chrY	13515997	.	G	A	9534.18	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
30952	chrY	13516020	.	G	A	9934.94	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
30953	chrY	13516071	.	C	A	6995.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30954	chrY	13516113	.	G	A	5212.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
30955	chrY	13516195	.	C	T	3027.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30956	chrY	13516203	.	A	T	184.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
30957	chrY	13516240	.	C	A	156.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
30958	chrY	13516242	.	C	A	6334.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30959	chrY	13516255	.	G	A	6998.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30960	chrY	13516266	.	A	C	5310.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30961	chrY	13516285	.	A	T	137.13	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQRankSum=
30962	chrY	13516360	.	T	C	9927.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30963	chrY	13516361	.	G	A	9946.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30964	chrY	13516368	.	C	T	9613.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
30965	chrY	13516414	.	T	C	3285.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
30966	chrY	13516442	.	A	T	4653.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
30967	chrY	13516477	.	C	A	5280.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
30968	chrY	13516574	.	G	A	4625.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
30969	chrY	13516616	.	A	G	3307.60	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
30970	chrY	13516632	.	C	T	2963.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
30971	chrY	13516633	.	T	G	2918.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
30972	chrY	13516638	.	T	C	2410.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
30973	chrY	13516655	.	T	C	1128.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
30974	chrY	13516696	.	C	T	995.49	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
30975	chrY	13516698	.	A	G	2742.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30976	chrY	13516726	.	G	A	3184.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30977	chrY	13516738	.	C	T	3839.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30978	chrY	13516739	.	A	G	3870.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30979	chrY	13516745	.	T	G	44.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
30980	chrY	13516786	.	C	A	7335.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30981	chrY	13516804	.	A	G	7079.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30982	chrY	13516814	.	A	G	6461.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30983	chrY	13516825	.	C	T	5907.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30984	chrY	13516886	.	A	G	907.22	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30985	chrY	13516928	.	T	C	2778.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
30986	chrY	13516943	.	A	C	2896.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
30987	chrY	13516947	.	G	A	2941.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQRankSum=
30988	chrY	13517022	.	T	A	4205.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30989	chrY	13517037	.	C	T	2516.49	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
30990	chrY	13517094	.	A	G	6436.64	PASS	AC=13;AF=0.464;AN=28;BaseQRankSum=
30991	chrY	13517162	.	G	A	6458.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
30992	chrY	13517191	.	G	C	5847.36	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30993	chrY	13517206	.	T	A	4834.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
30994	chrY	13517267	.	G	A	1009.37	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
30995	chrY	13517281	.	A	C	1011.47	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
30996	chrY	13517286	.	G	T	900.33	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
30997	chrY	13517295	.	A	C	553.71	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
30998	chrY	13517302	.	T	C	1019.18	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
30999	chrY	13517323	.	C	A	174.75	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
31000	chrY	13517436	.	C	A	3667.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31001	chrY	13517501	.	G	A	2568.57	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
31002	chrY	13517505	.	T	C	2466.34	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQRankSum=
31003	chrY	13517535	.	T	A	105.92	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQRankSum=
31004	chrY	13517543	.	T	C	2420.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31005	chrY	13517560	.	T	G	2824.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31006	chrY	13517717	.	G	A	54.13	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
31007	chrY	13517723	.	G	A	66.09	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=
31008	chrY	13517724	.	A	C	64.82	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQRankSum=

31009	chrY	13517758	.	A	G	849.82	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
31010	chrY	13517787	.	C	T	565.16	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
31011	chrY	13517816	.	A	T	129.11	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
31012	chrY	13517828	.	G	T	2882.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31013	chrY	13517833	.	A	T	105.05	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
31014	chrY	13517858	.	C	A	96.14	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
31015	chrY	13517929	.	T	C	1335.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
31016	chrY	13517931	.	T	C	4016.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31017	chrY	13517933	.	A	G	4017.12	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31018	chrY	13517949	.	T	G	2334.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31019	chrY	13518006	.	A	G	70.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
31020	chrY	13518022	.	A	G	2748.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31021	chrY	13518141	.	C	A	395.57	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
31022	chrY	13518162	.	G	A	1493.16	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
31023	chrY	13518191	.	G	C	2344.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31024	chrY	13518204	.	A	G	2919.42	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31025	chrY	13518227	.	A	C	3420.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31026	chrY	13518305	.	T	A	8744.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31027	chrY	13518312	.	C	T	9273.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31028	chrY	13518328	.	C	T	7472.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31029	chrY	13518333	.	T	A	7268.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31030	chrY	13518351	.	T	C	3781.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31031	chrY	13518387	.	T	C	2333.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
31032	chrY	13518424	.	G	C	2246.21	my_snp_filter	AC=11;AF=0.500;AN=22;Base
31033	chrY	13518488	.	G	T	2979.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
31034	chrY	13518489	.	A	C	2979.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
31035	chrY	13518490	.	G	C	7697.86	PASS	AC=18;AF=1.00;AN=18;DP=259;FS=0.0
31036	chrY	13518547	.	T	A	178.05	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
31037	chrY	13518562	.	A	G	2820.85	PASS	AC=11;AF=0.611;AN=18;BaseQRankSum=
31038	chrY	13518577	.	G	A	228.44	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
31039	chrY	13518617	.	G	A	804.28	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
31040	chrY	13518618	.	C	T	804.27	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
31041	chrY	13518619	.	G	A	804.28	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
31042	chrY	13518645	.	T	G	821.60	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
31043	chrY	13518649	.	T	C	816.71	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
31044	chrY	13518715	.	A	C	146.08	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
31045	chrY	13518716	.	T	C	149.51	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
31046	chrY	13518879	.	C	G	453.63	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
31047	chrY	13518902	.	T	C	997.81	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
31048	chrY	13518920	.	G	A	1637.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
31049	chrY	13518946	.	T	A	2179.39	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
31050	chrY	13518961	.	G	A	2884.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
31051	chrY	13518981	.	G	A	2984.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
31052	chrY	13519022	.	G	A	331.29	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
31053	chrY	13519024	.	G	A	221.09	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
31054	chrY	13519054	.	T	C	664.01	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
31055	chrY	13519065	.	A	C	687.07	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
31056	chrY	13519083	.	T	C	7036.63	PASS	AC=12;AF=0.500;AN=24;BaseQRankSum=
31057	chrY	13519113	.	C	A	163.37	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
31058	chrY	13519116	.	C	A	237.91	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
31059	chrY	13519149	.	G	A	826.31	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
31060	chrY	13519152	.	T	C	302.39	my_snp_filter	AC=5;AF=0.227;AN=22;BaseQ
31061	chrY	13519160	.	A	T	6749.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
31062	chrY	13519185	.	C	A	651.32	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
31063	chrY	13519254	.	G	T	363.70	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
31064	chrY	13519269	.	A	G	241	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
31065	chrY	13519282	.	A	G	341.72	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
31066	chrY	13519284	.	A	G	7918.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31067	chrY	13519320	.	G	A	9562.70	PASS	AC=13;AF=0.542;AN=24;BaseQRankSum=
31068	chrY	13519346	.	G	C	6183.05	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
31069	chrY	13519348	.	C	T	1546.40	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
31070	chrY	13519363	.	G	A	1501.16	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
31071	chrY	13519369	.	G	T	1531.68	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
31072	chrY	13519382	.	A	C	4588.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
31073	chrY	13519418	.	G	A	3136.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
31074	chrY	13519432	.	T	G	6888.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
31075	chrY	13519437	.	A	C	6847.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
31076	chrY	13519570	.	A	G	4091.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
31077	chrY	13519602	.	C	T	1166.44	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
31078	chrY	13519907	.	T	A	89.14	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
31079	chrY	13519910	.	G	A	85.45	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
31080	chrY	13519917	.	G	C	85.19	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
31081	chrY	13519972	.	G	A	263.06	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
31082	chrY	13520001	.	A	C	329.02	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
31083	chrY	13520181	.	C	T	129.97	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
31084	chrY	13520260	.	C	T	759.38	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=

31085	chrY	13520266	.	G	A	813.73	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
31086	chrY	13520279	.	A	C	600.26	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
31087	chrY	13520293	.	G	A	1045.76	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
31088	chrY	13520387	.	G	T	2850.53	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
31089	chrY	13520396	.	A	T	2745.98	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
31090	chrY	13520440	.	G	A	1562.85	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31091	chrY	13520448	.	G	C	1502.65	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31092	chrY	13520457	.	T	G	1472.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31093	chrY	13520479	.	C	G	899.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31094	chrY	13520576	.	G	A	121.61	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
31095	chrY	13520795	.	A	C	44.91	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
31096	chrY	13520913	.	C	T	45.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31097	chrY	13521122	.	C	T	52.14	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
31098	chrY	13521124	.	T	A	478.08	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
31099	chrY	13521132	.	T	A	92.57	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
31100	chrY	13521171	.	C	T	35.57	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
31101	chrY	13521183	.	G	A	2244.80	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
31102	chrY	13521212	.	A	G	389.69	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
31103	chrY	13521289	.	A	C	1367.04	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
31104	chrY	13521290	.	A	G	1598.33	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
31105	chrY	13521321	.	A	T	58.66	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
31106	chrY	13521343	.	A	T	1938.76	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
31107	chrY	13521346	.	G	A	2012.68	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQ
31108	chrY	13521356	.	T	C	2165.87	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
31109	chrY	13521412	.	T	A	4358.34	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
31110	chrY	13521515	.	T	C	3688.83	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
31111	chrY	13521541	.	A	G	4388.64	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
31112	chrY	13521548	.	A	C	4375.52	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
31113	chrY	13521617	.	C	A	8284.13	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
31114	chrY	13521662	.	A	C	3085.11	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
31115	chrY	13521663	.	G	A	3233.06	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
31116	chrY	13521695	.	G	T	1007.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31117	chrY	13521698	.	T	A	308.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31118	chrY	13521700	.	G	A	3986.82	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
31119	chrY	13521711	.	C	T	21243.22	PASS	AC=33;AF=0.471;AN=70;BaseQ
31120	chrY	13521737	.	T	C	150.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
31121	chrY	13521780	.	C	A	13492.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
31122	chrY	13521821	.	T	G	5875.20	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
31123	chrY	13521837	.	G	A	240.57	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
31124	chrY	13521848	.	A	G	1768.84	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
31125	chrY	13521857	.	G	A	7487.06	PASS	AC=13;AF=0.210;AN=62;BaseQRankSum=
31126	chrY	13521872	.	T	C	821.85	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
31127	chrY	13521918	.	T	A	4525.15	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
31128	chrY	13521934	.	C	T	1485.49	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
31129	chrY	13521940	.	C	G	5644.62	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
31130	chrY	13521949	.	T	C	5643.22	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
31131	chrY	13521971	.	A	C	5266.20	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
31132	chrY	13521972	.	G	A	5266.20	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
31133	chrY	13521982	.	G	C	5571.20	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
31134	chrY	13522003	.	C	T	4815.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31135	chrY	13522010	.	G	A	429.04	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
31136	chrY	13522019	.	G	A	231.07	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
31137	chrY	13522026	.	C	G	3453.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31138	chrY	13522050	.	T	G	2207.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31139	chrY	13522055	.	A	G	4387.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31140	chrY	13522063	.	G	T	1767.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31141	chrY	13522075	.	A	C	6501.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
31142	chrY	13522140	.	G	C	113.55	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
31143	chrY	13522243	.	T	A	294.29	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
31144	chrY	13522291	.	A	C	952.53	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
31145	chrY	13522308	.	C	A	898.20	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
31146	chrY	13522317	.	G	A	1758.78	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
31147	chrY	13522957	.	T	C	482.44	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
31148	chrY	13522985	.	C	T	53.71	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
31149	chrY	13522998	.	T	A	470.06	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
31150	chrY	13523032	.	C	T	92.84	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
31151	chrY	13523044	.	A	G	89.47	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
31152	chrY	13523053	.	G	A	659.58	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
31153	chrY	13523088	.	T	A	1675.82	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
31154	chrY	13523092	.	T	G	1484.23	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
31155	chrY	13523096	.	C	T	132.86	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
31156	chrY	13523099	.	C	A	1466.15	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
31157	chrY	13523143	.	G	A	3151.33	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
31158	chrY	13523149	.	G	A	3311.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31159	chrY	13523151	.	T	C	3496.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31160	chrY	13523173	.	T	A	3664.14	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=

31161	chrY	13523196	.	T	C	5160.74	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31162	chrY	13523202	.	A	G	5221.47	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31163	chrY	13523219	.	A	G	5185.90	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
31164	chrY	13523370	.	A	G	2501.41	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
31165	chrY	13523381	.	A	G	1430.72	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
31166	chrY	13523393	.	T	C	1366.12	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
31167	chrY	13523400	.	C	T	291.06	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
31168	chrY	13523453	.	C	T	645.68	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
31169	chrY	13523465	.	A	C	5342.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31170	chrY	13523547	.	C	T	4267.50	PASS	AC=15;AF=0.375;AN=40;BaseQRankSum=
31171	chrY	13523557	.	A	C	3769.76	PASS	AC=15;AF=0.357;AN=42;BaseQRankSum=
31172	chrY	13523585	.	T	G	2959.30	PASS	AC=12;AF=0.273;AN=44;BaseQRankSum=
31173	chrY	13523595	.	G	C	2643.50	PASS	AC=12;AF=0.273;AN=44;BaseQRankSum=
31174	chrY	13523629	.	T	A,*	1358.80	PASS	AC=14,2;AF=0.259,0.037;AN=54;BaseQ
31175	chrY	13523658	.	A	C	8275.89	my_snp_filter	AC=27;AF=0.422;AN=64;BaseQ
31176	chrY	13523668	.	T	C	8428.57	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
31177	chrY	13523745	.	G	A	6596.01	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
31178	chrY	13523809	.	A	C	108.40	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
31179	chrY	13523946	.	G	A	74.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
31180	chrY	13523947	.	C	T	899.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31181	chrY	13523966	.	T	A	4060.05	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31182	chrY	13523973	.	C	T	245.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31183	chrY	13523974	.	A	G	3089.59	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
31184	chrY	13524009	.	C	T	13113.10	PASS	AC=66;AF=1.00;AN=66;DP=37
31185	chrY	13524018	.	T	A	1087.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
31186	chrY	13524029	.	G	C	2095.99	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31187	chrY	13524034	.	G	A	2198.65	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
31188	chrY	13524055	.	C	A	2339.09	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31189	chrY	13524079	.	G	T	794.40	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31190	chrY	13524095	.	T	A	1295.32	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31191	chrY	13524108	.	C	T	3695.90	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
31192	chrY	13524138	.	T	C	40.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31193	chrY	13524146	.	A	G	44.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31194	chrY	13524150	.	G	C	1304.32	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31195	chrY	13524162	.	G	T	953.69	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
31196	chrY	13524174	.	G	A	128.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31197	chrY	13524225	.	A	T	1395.25	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
31198	chrY	13524270	.	C	A	1349.85	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31199	chrY	13524296	.	T	A	38.71	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
31200	chrY	13524301	.	A	G	139.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
31201	chrY	13524322	.	G	T	6001.81	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
31202	chrY	13524355	.	T	A	7602.97	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
31203	chrY	13524372	.	A	G	2819.44	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
31204	chrY	13524378	.	T	C	7798.64	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum=
31205	chrY	13524407	.	T	G,*	2077.86	PASS	AC=4,10;AF=0.057,0.143;AN=70;BaseQ
31206	chrY	13524455	.	A	T	223.59	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31207	chrY	13524507	.	C	T	11717	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
31208	chrY	13524548	.	T	G	5520.63	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
31209	chrY	13524585	.	T	G	41.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31210	chrY	13524594	.	G	T	11749.04	PASS	AC=30;AF=0.429;AN=70;BaseQ
31211	chrY	13524639	.	C	T	2694.18	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
31212	chrY	13524664	.	C	A	13560.77	PASS	AC=33;AF=0.471;AN=70;BaseQ
31213	chrY	13524719	.	C	T	3506.48	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
31214	chrY	13524750	.	C	T	9019.35	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
31215	chrY	13524752	.	G	T	13939.69	PASS	AC=13;AF=0.186;AN=70;BaseQ
31216	chrY	13524753	.	C	A	2721.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31217	chrY	13524761	.	C	T	11757.48	PASS	AC=11;AF=0.157;AN=70;BaseQ
31218	chrY	13524873	.	T	C	8580.49	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
31219	chrY	13524882	.	G	A	7310.41	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
31220	chrY	13524907	.	G	A	78.99	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
31221	chrY	13524914	.	C	A	59.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
31222	chrY	13524938	.	A	G	7021.10	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
31223	chrY	13524998	.	C	T	9570.72	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
31224	chrY	13525085	.	G	C	549.89	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
31225	chrY	13525117	.	A	G	3761.60	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
31226	chrY	13525156	.	C	A	79.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31227	chrY	13525403	.	T	C	70.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31228	chrY	13525413	.	G	T	64.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31229	chrY	13525459	.	T	A	89.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31230	chrY	13525460	.	G	A	89.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31231	chrY	13525462	.	T	A	89.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31232	chrY	13525493	.	T	C	1355.85	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
31233	chrY	13525501	.	A	G	1732.38	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
31234	chrY	13525521	.	A	C	3449.21	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
31235	chrY	13525614	.	G	A	3905.28	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
31236	chrY	13525653	.	G	T	4700.24	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=

31237	chrY	13525669	.	C	T	402.34	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31238	chrY	13525680	.	C	T	3048.60	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
31239	chrY	13525698	.	C	T	2748.28	my_snp_filter	AC=23;AF=0.338;AN=68;BaseQRankSum=
31240	chrY	13525718	.	G	A	179.63	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
31241	chrY	13525720	.	T	A	2047.25	my_snp_filter	AC=21;AF=0.318;AN=66;BaseQRankSum=
31242	chrY	13525779	.	G	C	430.61	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
31243	chrY	13525797	.	A	C	266.29	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
31244	chrY	13525808	.	C	T	208.66	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31245	chrY	13525809	.	A	G	205.56	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31246	chrY	13526375	.	T	G	96.11	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQRankSum=
31247	chrY	13526417	.	G	T	678.43	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
31248	chrY	13526461	.	C	T	2377.82	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
31249	chrY	13526462	.	C	G	2380.83	my_snp_filter	AC=15;AF=0.242;AN=62;BaseQRankSum=
31250	chrY	13526496	.	C	T	2414.01	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
31251	chrY	13526522	.	G	C	4934.63	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
31252	chrY	13526523	.	A	T	4934.09	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
31253	chrY	13526566	.	A	C	2476.98	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
31254	chrY	13526568	.	T	A	2478.56	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
31255	chrY	13526592	.	A	G	61.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31256	chrY	13526600	.	A	G	1036.15	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
31257	chrY	13526681	.	A	G	225.99	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
31258	chrY	13526697	.	A	C	230.60	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
31259	chrY	13526767	.	C	T	170.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31260	chrY	13526808	.	A	C	78.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31261	chrY	13526889	.	G	A	69.97	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
31262	chrY	13527052	.	A	C	471	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
31263	chrY	13527080	.	A	T	1005.90	PASS	AC=15;AF=0.417;AN=36;BaseQRankSum=
31264	chrY	13527111	.	G	A	1194.15	PASS	AC=14;AF=0.350;AN=40;BaseQRankSum=
31265	chrY	13527167	.	C	A	515.10	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
31266	chrY	13527168	.	A	C	514.90	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
31267	chrY	13527360	.	T	A	68.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
31268	chrY	13527501	.	T	A	43.21	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
31269	chrY	13527717	.	T	C	220.64	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
31270	chrY	13527757	.	C	A	2831.18	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
31271	chrY	13527768	.	T	G	3338.81	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQRankSum=
31272	chrY	13527789	.	G	A	5064.30	my_snp_filter	AC=26;AF=0.371;AN=70;BaseQRankSum=
31273	chrY	13527802	.	T	G	6436.52	my_snp_filter	AC=29;AF=0.414;AN=70;BaseQRankSum=
31274	chrY	13527830	.	A	T	272.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31275	chrY	13527866	.	G	A	123.06	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
31276	chrY	13527880	.	T	G	348.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31277	chrY	13527896	.	C	A	15078	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
31278	chrY	13527907	.	A	G	15494.58	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
31279	chrY	13527911	.	C	A	280.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
31280	chrY	13527924	.	A	G	13110.58	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
31281	chrY	13527964	.	G	C	777.10	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
31282	chrY	13527977	.	T	A	9848.57	PASS	AC=24;AF=0.429;AN=56;BaseQRankSum=
31283	chrY	13527981	.	T	A	9805.45	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
31284	chrY	13528016	.	C	G	8083.57	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
31285	chrY	13528039	.	T	A	6997.73	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
31286	chrY	13528048	.	T	G	39.93	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
31287	chrY	13528061	.	G	A	84.28	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
31288	chrY	13528070	.	A	G	85.73	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQRankSum=
31289	chrY	13528086	.	A	T	6805.61	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQRankSum=
31290	chrY	13528097	.	T	C	5469.68	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQRankSum=
31291	chrY	13528103	.	G	C	114.28	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
31292	chrY	13528106	.	T	C	6045.07	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQRankSum=
31293	chrY	13528144	.	T	C	3198.46	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQRankSum=
31294	chrY	13528175	.	A	G	5239.35	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQRankSum=
31295	chrY	13528196	.	T	C	5143.98	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
31296	chrY	13528200	.	C	T	2478.49	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
31297	chrY	13528234	.	T	C	2137.07	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
31298	chrY	13528257	.	G	A	1921.68	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31299	chrY	13528263	.	T	C	1816.55	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
31300	chrY	13528269	.	T	C	1617.62	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
31301	chrY	13528350	.	A	G	671.37	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
31302	chrY	13528386	.	T	G	57.52	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
31303	chrY	13528419	.	C	G	79.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
31304	chrY	13528494	.	A	G	135.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31305	chrY	13528502	.	G	A	171.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
31306	chrY	13528521	.	G	A	672.23	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
31307	chrY	13528560	.	C	T	81.97	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
31308	chrY	13528617	.	T	C	10039.36	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
31309	chrY	13528635	.	C	T	10562	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
31310	chrY	13528650	.	G	A	805.50	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
31311	chrY	13528660	.	A	C	789.43	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum=
31312	chrY	13528693	.	G	A	7741.08	PASS	AC=14;AF=0.412;AN=34;BaseQRankSum=

31313	chrY	13528718	.	A	G	712.08	my_snp_filter	AC=9;AF=0.196;AN=46;BaseQ
31314	chrY	13528770	.	C	A	10640.04	PASS	AC=16;AF=0.267;AN=60;BaseQ
31315	chrY	13528794	.	T	C	8923.16	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
31316	chrY	13528832	.	A	G	162.24	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31317	chrY	13528866	.	G	C	12838.40	PASS	AC=11;AF=0.157;AN=70;BaseQ
31318	chrY	13528880	.	A	G	11978.09	PASS	AC=9;AF=0.129;AN=70;BaseQ
31319	chrY	13528893	.	C	T	11354.12	PASS	AC=9;AF=0.129;AN=70;BaseQ
31320	chrY	13528911	.	A	T	462.11	PASS	AC=6;AF=0.086;AN=70;DP=637;FS=0.0
31321	chrY	13528995	.	A	G	113.66	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
31322	chrY	13529004	.	T	G	11331.62	PASS	AC=9;AF=0.150;AN=60;BaseQ
31323	chrY	13529010	.	C	A	9091.03	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum
31324	chrY	13529041	.	C	T	314.62	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
31325	chrY	13529068	.	G	A	260.71	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
31326	chrY	13529074	.	T	A	5039.37	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum
31327	chrY	13529141	.	A	C	1000.02	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum
31328	chrY	13529194	.	A	G	497.41	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum
31329	chrY	13529209	.	T	A	3766.27	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum
31330	chrY	13529238	.	G	T	591.16	my_snp_filter	AC=7;AF=0.152;AN=46;BaseQ
31331	chrY	13529242	.	G	A	601.84	my_snp_filter	AC=7;AF=0.140;AN=50;BaseQ
31332	chrY	13529319	.	C	G	1556.13	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum
31333	chrY	13529347	.	G	T	1824.88	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
31334	chrY	13529358	.	A	G	1521.71	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
31335	chrY	13529361	.	A	T	1397.34	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
31336	chrY	13529366	.	T	G	1067.96	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
31337	chrY	13529469	.	T	C	269.06	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum
31338	chrY	13529496	.	C	T	5658.51	PASS	AC=11;AF=0.393;AN=28;BaseQRankSum
31339	chrY	13529500	.	A	G	6061.99	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum
31340	chrY	13529513	.	G	A	5762.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum
31341	chrY	13529581	.	C	A	184.88	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum
31342	chrY	13529602	.	T	C	51.26	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
31343	chrY	13529635	.	G	A	59.15	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
31344	chrY	13529646	.	G	A	85.18	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
31345	chrY	13529699	.	A	C	2072.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum
31346	chrY	13529708	.	A	G	1726.38	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum
31347	chrY	13529716	.	C	T	1689.58	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum
31348	chrY	13529749	.	T	G	671.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum
31349	chrY	13529798	.	A	T	2056.02	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum
31350	chrY	13529825	.	T	C	3329.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
31351	chrY	13529856	.	G	T	4955.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
31352	chrY	13529859	.	G	A	5026.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
31353	chrY	13529927	.	C	A	5759.09	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum
31354	chrY	13529949	.	G	C	5058.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum
31355	chrY	13529985	.	G	C	73.79	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
31356	chrY	13530010	.	G	A	2610.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum
31357	chrY	13530026	.	A	G	2042.14	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum
31358	chrY	13530029	.	T	C	2015.14	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum
31359	chrY	13530058	.	T	G	911.41	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum
31360	chrY	13530059	.	T	G	911.41	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum
31361	chrY	13530085	.	A	C,*	455.05	PASS	AC=2,1;AF=0.111,0.056;AN=18;BaseQ
31362	chrY	13530088	.	A	C	83.85	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum
31363	chrY	13530165	.	T	C	1185.89	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31364	chrY	13530169	.	C	T	1147.89	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31365	chrY	13530217	.	A	C	100.56	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
31366	chrY	13530244	.	A	G	38.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31367	chrY	13530306	.	A	G	168.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
31368	chrY	13530319	.	A	T	162.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
31369	chrY	13530416	.	C	T	342.11	PASS	AC=2;AF=0.029;AN=70;DP=557;FS=0.0
31370	chrY	13530639	.	G	C	34.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
31371	chrY	13530642	.	C	T	34.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
31372	chrY	13530646	.	T	A	124.68	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum
31373	chrY	13530659	.	G	A	118.40	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
31374	chrY	13530784	.	A	G	41.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
31375	chrY	13530814	.	G	C	37.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
31376	chrY	13530825	.	G	T	40.32	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
31377	chrY	13531041	.	A	G	110.37	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
31378	chrY	13531044	.	C	A	110.66	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
31379	chrY	13531051	.	T	C	107.21	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
31380	chrY	13531140	.	G	A	34.47	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
31381	chrY	13531157	.	A	T	617.84	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
31382	chrY	13531185	.	C	T	1587.62	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
31383	chrY	13531203	.	T	C	1919.79	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
31384	chrY	13531207	.	A	T	1896.46	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
31385	chrY	13531225	.	G	C	1847.15	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31386	chrY	13531230	.	A	G	1760.16	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31387	chrY	13531259	.	G	A	1500.58	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
31388	chrY	13531269	.	C	T	1357.80	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ

31389	chrY	13531304	.	A	G	264.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31390	chrY	13531311	.	T	A	325.66	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
31391	chrY	13531312	.	A	G	542.18	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
31392	chrY	13531406	.	G	A	2927.67	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
31393	chrY	13531416	.	G	A	3079.88	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
31394	chrY	13531453	.	C	A	1739.84	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
31395	chrY	13531507	.	A	G	1313.19	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
31396	chrY	13531525	.	T	C	1038.55	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31397	chrY	13531536	.	G	A	746.52	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31398	chrY	13531538	.	G	T	704.18	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31399	chrY	13531556	.	G	A	188.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31400	chrY	13531566	.	C	T	129.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31401	chrY	13531583	.	G	C	37.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31402	chrY	13531720	.	C	T	348.43	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
31403	chrY	13531733	.	G	A	362.58	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
31404	chrY	13531777	.	C	A	84.13	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
31405	chrY	13531850	.	A	T	1420.69	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
31406	chrY	13531870	.	T	A	3388.89	PASS	AC=13;AF=0.591;AN=22;BaseQRankSum=
31407	chrY	13531908	.	G	C	2729.34	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
31408	chrY	13531968	.	C	T	4007.71	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
31409	chrY	13531976	.	C	A	3846.83	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ
31410	chrY	13531991	.	T	C	256.77	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
31411	chrY	13532013	.	T	C	2405.93	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQ
31412	chrY	13532016	.	G	A	2429.14	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQ
31413	chrY	13532037	.	G	A	1851.10	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
31414	chrY	13532054	.	C	A	1436.75	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
31415	chrY	13532152	.	T	C	392.62	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31416	chrY	13532157	.	C	A	254.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31417	chrY	13532179	.	A	T	508.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31418	chrY	13532192	.	A	T	584.75	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31419	chrY	13532197	.	G	A	190.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31420	chrY	13532221	.	A	T	204.91	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31421	chrY	13532249	.	C	T	148.83	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31422	chrY	13532646	.	T	G	124.62	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
31423	chrY	13532685	.	A	G	238.02	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
31424	chrY	13532726	.	C	T	742.29	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
31425	chrY	13532745	.	G	A	588.29	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
31426	chrY	13532746	.	G	A	476.92	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
31427	chrY	13532774	.	A	G	1249.95	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQ
31428	chrY	13532820	.	C	T	322.31	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
31429	chrY	13532941	.	C	T	6863.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
31430	chrY	13532944	.	A	C	6950.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
31431	chrY	13532948	.	A	G	5913.07	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
31432	chrY	13533014	.	T	G	5724.33	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
31433	chrY	13533133	.	T	C	142.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
31434	chrY	13533149	.	G	A	6530.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31435	chrY	13533158	.	T	C	9869.76	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31436	chrY	13533172	.	T	C	166.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31437	chrY	13533174	.	T	C	5878.28	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31438	chrY	13533178	.	C	G	114.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31439	chrY	13533179	.	C	T	117.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31440	chrY	13533181	.	A	T	120.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31441	chrY	13533301	.	G	A	48.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31442	chrY	13533339	.	A	G	16524.48	PASS	AC=34;AF=0.486;AN=70;BaseQ
31443	chrY	13533349	.	G	A	18028.60	PASS	AC=34;AF=0.486;AN=70;BaseQ
31444	chrY	13533372	.	C	A	1759.74	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
31445	chrY	13533402	.	C	G	23453.76	PASS	AC=35;AF=0.500;AN=70;BaseQ
31446	chrY	13533430	.	G	A	999.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31447	chrY	13533485	.	C	T	34743.79	PASS	AC=36;AF=0.514;AN=70;BaseQ
31448	chrY	13533486	.	A	G	34815.34	PASS	AC=36;AF=0.514;AN=70;BaseQ
31449	chrY	13533504	.	T	A	24216.76	PASS	AC=38;AF=0.543;AN=70;BaseQ
31450	chrY	13533574	.	A	G	10656.17	PASS	AC=27;AF=0.563;AN=48;BaseQ
31451	chrY	13533586	.	T	G	12141.56	PASS	AC=22;AF=0.458;AN=48;BaseQ
31452	chrY	13533591	.	C	T	11895.44	PASS	AC=21;AF=0.457;AN=46;BaseQ
31453	chrY	13533715	.	A	G	9518.83	PASS	AC=13;AF=0.283;AN=46;BaseQRankSum=
31454	chrY	13533721	.	A	G	9408	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
31455	chrY	13533727	.	A	C	8931.14	my_snp_filter	AC=12;AF=0.222;AN=54;BaseQ
31456	chrY	13533744	.	G	A	5787.60	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
31457	chrY	13533763	.	T	A	3961.29	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
31458	chrY	13533793	.	A	G	3093.61	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31459	chrY	13533794	.	A	G	3091.94	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31460	chrY	13533827	.	A	T	1684.54	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31461	chrY	13533834	.	G	T	731.94	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
31462	chrY	13533845	.	A	G	1750.59	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
31463	chrY	13533856	.	C	T	135.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31464	chrY	13533930	.	G	T	903.52	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ

31465	chrY	13533950	.	C	T	782.28	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
31466	chrY	13533957	.	G	A	522.25	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
31467	chrY	13533991	.	C	A	263.34	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
31468	chrY	13533992	.	C	A	125.20	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
31469	chrY	13534333	.	A	C	107.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31470	chrY	13534349	.	G	C	106.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31471	chrY	13534584	.	A	T	507.32	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
31472	chrY	13534585	.	A	C	104.81	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
31473	chrY	13534628	.	A	T	5281.30	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
31474	chrY	13534639	.	C	T	750.82	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
31475	chrY	13534641	.	G	A	7269.05	PASS	AC=26;AF=0.433;AN=60;BaseQRankSum=
31476	chrY	13534653	.	G	A	177.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31477	chrY	13534656	.	A	G	51.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31478	chrY	13534675	.	G	A	15365.75	PASS	AC=35;AF=0.500;AN=70;BaseQ
31479	chrY	13534696	.	C	A	15115.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
31480	chrY	13534697	.	G	C	1274.18	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31481	chrY	13534759	.	G	A	11985.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
31482	chrY	13534767	.	T	G	122.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
31483	chrY	13534839	.	T	A,C	3769.99	PASS	AC=10,22;AF=0.147,0.324;AN=68;Bas
31484	chrY	13534869	.	G	T	2111.66	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=
31485	chrY	13534887	.	C	A	938.81	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
31486	chrY	13534912	.	T	C	755.27	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
31487	chrY	13534914	.	C	T	75.55	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
31488	chrY	13534929	.	G	T	2020.09	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
31489	chrY	13534935	.	A	G	2404.61	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
31490	chrY	13535056	.	A	G	7314.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
31491	chrY	13535073	.	T	A	7092.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
31492	chrY	13535098	.	C	A	5579.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
31493	chrY	13535154	.	A	G	800.91	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
31494	chrY	13535164	.	C	A	588.57	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
31495	chrY	13535167	.	T	C	515.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
31496	chrY	13535178	.	T	G	203.12	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
31497	chrY	13535217	.	C	G	1779.95	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
31498	chrY	13535228	.	G	C	1928.33	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
31499	chrY	13535283	.	C	T	2261.35	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
31500	chrY	13535337	.	A	C	1953.50	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
31501	chrY	13535532	.	A	G	151.19	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
31502	chrY	13535777	.	T	C	166.08	PASS	AC=1;AF=0.250;AN=4;BaseQRankSum=
31503	chrY	13535805	.	G	A	1459.09	PASS	AC=3;AF=0.500;AN=6;BaseQRankSum=1
31504	chrY	13535824	.	C	T	68.73	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
31505	chrY	13535963	.	C	A	426.40	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
31506	chrY	13536039	.	T	C	6394.56	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
31507	chrY	13536041	.	G	T	1713.55	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
31508	chrY	13536091	.	T	C	3171.04	PASS	AC=15;AF=0.441;AN=34;BaseQRankSum=
31509	chrY	13536155	.	C	A	11018.15	PASS	AC=29;AF=0.414;AN=70;BaseQ
31510	chrY	13536194	.	T	G	12104.13	PASS	AC=33;AF=0.471;AN=70;BaseQ
31511	chrY	13536236	.	G	C	12094.28	PASS	AC=33;AF=0.471;AN=70;BaseQ
31512	chrY	13536270	.	C	T	9929.02	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
31513	chrY	13536274	.	A	G	506.80	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
31514	chrY	13536324	.	G	A	8006.64	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
31515	chrY	13536342	.	G	A	7950.30	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
31516	chrY	13536394	.	T	C	74.67	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31517	chrY	13536423	.	C	G	15618.48	PASS	AC=33;AF=0.485;AN=68;BaseQ
31518	chrY	13536425	.	T	A	841.87	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
31519	chrY	13536428	.	C	T	14010.64	PASS	AC=31;AF=0.456;AN=68;BaseQ
31520	chrY	13536435	.	C	A	13687.17	PASS	AC=31;AF=0.456;AN=68;BaseQ
31521	chrY	13536436	.	C	T	3714.17	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
31522	chrY	13536441	.	A	C	56.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31523	chrY	13536470	.	G	C	6774.77	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
31524	chrY	13536524	.	G	A	11294.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
31525	chrY	13536526	.	T	A	11294.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
31526	chrY	13536630	.	C	G	250.16	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
31527	chrY	13536643	.	T	A	544.79	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
31528	chrY	13536672	.	A	G	739.85	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
31529	chrY	13536706	.	A	G	1250.96	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31530	chrY	13536797	.	C	T	5872.70	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
31531	chrY	13536822	.	T	A	6248.14	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
31532	chrY	13536848	.	T	C	5728.03	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
31533	chrY	13536889	.	C	T	156.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
31534	chrY	13536906	.	T	A	11886.07	PASS	AC=32;AF=0.471;AN=68;BaseQ
31535	chrY	13536917	.	C	T	12181.06	PASS	AC=32;AF=0.485;AN=66;BaseQ
31536	chrY	13536933	.	T	G	12140.80	PASS	AC=33;AF=0.516;AN=64;BaseQ
31537	chrY	13536954	.	A	T	1695.12	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
31538	chrY	13536972	.	T	C	2229.76	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
31539	chrY	13537004	.	G	C	803.82	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
31540	chrY	13537035	.	T	A	6715.39	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=

31541	chrY	13537056	.	T	C	2068.80	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31542	chrY	13537078	.	T	G	4027.06	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31543	chrY	13537080	.	G	C	413.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31544	chrY	13537086	.	T	C	490.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31545	chrY	13537105	.	G	A	5037.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31546	chrY	13537107	.	T	G	6936.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31547	chrY	13537112	.	T	G	859.72	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31548	chrY	13537129	.	G	A	6553.20	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31549	chrY	13537142	.	T	C	191.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31550	chrY	13537222	.	A	G	8506.12	PASS	AC=26;AF=0.394;AN=66;BaseQRankSum=
31551	chrY	13537275	.	T	C	45.95	PASS	AC=2;AF=0.029;AN=70;DP=739;FS=0.0
31552	chrY	13537276	.	C	T	883.43	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31553	chrY	13537278	.	G	A,T	13451.30	PASS	AC=37,7;AF=0.544,0.103;AN=
31554	chrY	13537294	.	T	A	71.45	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
31555	chrY	13537371	.	C	T	1600.78	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31556	chrY	13537392	.	A	T	18177.20	PASS	AC=37;AF=0.529;AN=70;BaseQ
31557	chrY	13537468	.	A	G	13605.27	PASS	AC=32;AF=0.500;AN=64;BaseQ
31558	chrY	13537472	.	C	T	7303.22	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum=
31559	chrY	13537479	.	T	G	12557.65	PASS	AC=32;AF=0.516;AN=62;BaseQ
31560	chrY	13537569	.	A	T	4869.65	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
31561	chrY	13537581	.	C	T	5380.32	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
31562	chrY	13537602	.	T	C	259.64	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
31563	chrY	13537628	.	A	T	156.59	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
31564	chrY	13537634	.	T	C	158.09	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
31565	chrY	13537661	.	T	G	44.64	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
31566	chrY	13537666	.	G	T	40.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31567	chrY	13537669	.	C	A	554.67	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
31568	chrY	13537686	.	A	C	551.15	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
31569	chrY	13537696	.	G	A	640.21	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
31570	chrY	13537741	.	A	C	10527.12	PASS	AC=9;AF=0.129;AN=70;BaseQ
31571	chrY	13537744	.	T	G	2525.54	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31572	chrY	13537747	.	G	C	6447.10	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
31573	chrY	13537778	.	C	G	8718.57	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
31574	chrY	13537792	.	A	G	8969.92	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
31575	chrY	13537827	.	A	C	3900.04	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
31576	chrY	13537839	.	C	T	4886.60	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
31577	chrY	13537843	.	A	T	46.49	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
31578	chrY	13537919	.	A	G	12288.22	PASS	AC=10;AF=0.156;AN=64;BaseQ
31579	chrY	13537923	.	A	G	1866.69	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
31580	chrY	13537967	.	C	T	5755.64	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
31581	chrY	13538006	.	A	G	8356.26	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
31582	chrY	13538021	.	G	A	11732.09	PASS	AC=27;AF=0.397;AN=68;BaseQ
31583	chrY	13538024	.	T	C	11852.37	PASS	AC=27;AF=0.422;AN=64;BaseQ
31584	chrY	13538036	.	A	G	3919.41	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
31585	chrY	13538038	.	A	G	3924.06	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
31586	chrY	13538047	.	T	C	3612.69	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
31587	chrY	13538086	.	G	A	172.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31588	chrY	13538121	.	A	C	1391.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31589	chrY	13538135	.	A	T	16946.98	PASS	AC=35;AF=0.500;AN=70;BaseQ
31590	chrY	13538152	.	A	T	563.17	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31591	chrY	13538197	.	C	G	1856.76	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
31592	chrY	13538206	.	G	T,*	1795.57	PASS	AC=11,2;AF=0.167,0.030;AN=66;BaseQ
31593	chrY	13538212	.	T	C	15062.94	PASS	AC=34;AF=0.548;AN=62;BaseQ
31594	chrY	13538215	.	G	A	14997.96	PASS	AC=34;AF=0.548;AN=62;BaseQ
31595	chrY	13538231	.	C	T	526.27	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
31596	chrY	13538247	.	C	T	9473.15	PASS	AC=16;AF=0.471;AN=34;BaseQRankSum=
31597	chrY	13538257	.	G	A	8729.98	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
31598	chrY	13538260	.	C	T	8582.26	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=
31599	chrY	13538280	.	T	C	7406.82	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
31600	chrY	13538347	.	T	G	243	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
31601	chrY	13538350	.	C	A	2659.98	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ
31602	chrY	13538367	.	A	G	2392.35	my_snp_filter	AC=8;AF=0.154;AN=52;BaseQ
31603	chrY	13538371	.	G	A	100.07	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
31604	chrY	13538381	.	T	C	65.10	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
31605	chrY	13538393	.	A	G	2336.94	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
31606	chrY	13538400	.	A	C	2393.99	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
31607	chrY	13538421	.	T	G	171.07	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
31608	chrY	13538517	.	T	C	1483.29	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
31609	chrY	13538563	.	A	G	334.13	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31610	chrY	13538791	.	G	C	865.30	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
31611	chrY	13538792	.	G	A	868.28	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
31612	chrY	13538802	.	C	G	1154.27	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
31613	chrY	13538815	.	T	C	46.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31614	chrY	13538856	.	A	T	3230.05	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
31615	chrY	13538867	.	T	G	456.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31616	chrY	13538891	.	T	C	816.17	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=

31617	chrY	13538931	.	T	G	40.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
31618	chrY	13538934	.	T	C	38.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31619	chrY	13538991	.	T	G	1037.21	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
31620	chrY	13539025	.	C	T	33.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31621	chrY	13539044	.	G	A	287.36	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31622	chrY	13539059	.	G	A	934.31	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
31623	chrY	13539063	.	T	G	913.44	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
31624	chrY	13539196	.	G	T	751.45	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
31625	chrY	13539214	.	T	C	4474.05	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
31626	chrY	13539222	.	G	A	4749.61	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
31627	chrY	13539226	.	T	G	4784.90	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
31628	chrY	13539257	.	G	C	4041.34	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
31629	chrY	13539269	.	T	C	1750.46	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
31630	chrY	13539307	.	G	T	4352.11	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
31631	chrY	13539334	.	G	A	3223.52	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
31632	chrY	13539360	.	T	C	2038.24	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
31633	chrY	13539438	.	A	G	858.93	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
31634	chrY	13539506	.	T	C	938.53	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
31635	chrY	13539590	.	G	T	220.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31636	chrY	13539607	.	C	T	213.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31637	chrY	13539633	.	A	T	31.85	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31638	chrY	13539680	.	G	A	89.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31639	chrY	13539690	.	G	C	183.92	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31640	chrY	13539707	.	T	C	96.23	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
31641	chrY	13539837	.	A	C	342.75	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
31642	chrY	13540005	.	G	A	764.42	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
31643	chrY	13540028	.	A	G	1162.49	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
31644	chrY	13540032	.	C	T	1624.78	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
31645	chrY	13540059	.	T	C	83.82	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
31646	chrY	13540075	.	T	G	82.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31647	chrY	13540076	.	A	C	81.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31648	chrY	13540146	.	G	A	108.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31649	chrY	13540195	.	T	C	1006.41	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
31650	chrY	13540248	.	C	T	388.47	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
31651	chrY	13540300	.	A	T	347.20	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
31652	chrY	13540364	.	G	A	4860.13	PASS	AC=28;AF=0.500;AN=56;BaseQRankSum=
31653	chrY	13540389	.	G	A	607.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31654	chrY	13540422	.	T	C	363.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31655	chrY	13540448	.	G	T	199.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31656	chrY	13540514	.	G	A	831.36	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
31657	chrY	13540588	.	C	T	101.87	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
31658	chrY	13540668	.	T	C	96.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31659	chrY	13540678	.	C	T	166.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
31660	chrY	13540695	.	G	A	127.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
31661	chrY	13540697	.	G	T	127.15	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
31662	chrY	13540703	.	A	G	786.73	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31663	chrY	13540717	.	A	G	2003.09	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31664	chrY	13540721	.	A	C	165.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31665	chrY	13540734	.	G	A	446.99	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31666	chrY	13540744	.	A	C	1990.14	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31667	chrY	13540755	.	G	T	590.05	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
31668	chrY	13540842	.	G	A	11041.33	my_snp_filter	AC=23;AF=0.329;AN=
31669	chrY	13540858	.	T	C	7385.79	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31670	chrY	13540878	.	T	C	7954.84	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
31671	chrY	13540880	.	C	T	3202.14	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
31672	chrY	13540881	.	G	A	3384.24	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
31673	chrY	13540902	.	A	G	7708.88	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
31674	chrY	13540934	.	G	A	6536.18	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQ
31675	chrY	13540959	.	T	A	859.37	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ
31676	chrY	13541022	.	C	A	7412.15	PASS	AC=21;AF=0.500;AN=42;BaseQRankSum=
31677	chrY	13541043	.	T	C	148.13	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
31678	chrY	13541068	.	T	C	15345.55	PASS	AC=27;AF=0.563;AN=48;BaseQ
31679	chrY	13541091	.	A	G	124.75	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
31680	chrY	13541199	.	A	G	4896.74	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
31681	chrY	13541232	.	A	T	5940.45	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
31682	chrY	13541288	.	G	A	16940.81	PASS	AC=36;AF=0.514;AN=70;BaseQ
31683	chrY	13541420	.	A	C	5871.37	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
31684	chrY	13541454	.	T	C	5473.98	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
31685	chrY	13541478	.	G	T	4705.40	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
31686	chrY	13541520	.	C	T	2647.92	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
31687	chrY	13541556	.	A	C	4288.66	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
31688	chrY	13541561	.	T	G	4414.72	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ
31689	chrY	13541566	.	T	C	4252.54	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
31690	chrY	13541584	.	C	G	3603.22	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
31691	chrY	13541624	.	A	G	1267.53	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
31692	chrY	13541665	.	T	C	1183.23	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ

31693	chrY	13541667	.	A	G	1187.49	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
31694	chrY	13541676	.	A	T	226.52	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
31695	chrY	13541725	.	G	A	327.62	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
31696	chrY	13541739	.	T	C	195.48	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
31697	chrY	13541746	.	C	A	249.52	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
31698	chrY	13541756	.	T	C	111.73	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
31699	chrY	13542062	.	T	C	578.07	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
31700	chrY	13542079	.	G	A	995.31	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
31701	chrY	13542195	.	T	A	2314.77	my_snp_filter	AC=10;AF=0.143;AN=70;Base
31702	chrY	13542240	.	A	G	3860.06	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31703	chrY	13542250	.	T	A	3966.39	my_snp_filter	AC=10;AF=0.143;AN=70;Base
31704	chrY	13542260	.	A	G	3899.38	my_snp_filter	AC=14;AF=0.200;AN=70;Base
31705	chrY	13542287	.	A	G	8377.64	my_snp_filter	AC=32;AF=0.457;AN=70;Base
31706	chrY	13542296	.	A	G	9350.64	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
31707	chrY	13542373	.	T	A	15091.79	PASS	AC=36;AF=0.514;AN=70;Base
31708	chrY	13542416	.	C	T	6149.46	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
31709	chrY	13542438	.	T	A	15991.72	PASS	AC=35;AF=0.500;AN=70;Base
31710	chrY	13542466	.	G	T	16754.72	PASS	AC=35;AF=0.500;AN=70;Base
31711	chrY	13542483	.	C	A	883.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31712	chrY	13542486	.	T	A,C	12633.84	PASS	AC=23,13;AF=0.329,0.186;A
31713	chrY	13542504	.	T	A	15988.84	PASS	AC=34;AF=0.486;AN=70;Base
31714	chrY	13542508	.	C	T	20907.72	PASS	AC=35;AF=0.500;AN=70;Base
31715	chrY	13542570	.	T	C	5460.38	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
31716	chrY	13542595	.	T	C	2176.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
31717	chrY	13542620	.	T	C	1911.47	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
31718	chrY	13542627	.	G	C	2044.62	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
31719	chrY	13542629	.	C	T	1907.53	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
31720	chrY	13542695	.	G	A	1857.24	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
31721	chrY	13542699	.	T	C	1889.22	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
31722	chrY	13542741	.	C	T	9735.10	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
31723	chrY	13542754	.	C	T	2433.53	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum
31724	chrY	13542756	.	C	T	282.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31725	chrY	13542766	.	T	C	9397.91	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
31726	chrY	13542796	.	G	A	1282.49	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
31727	chrY	13542811	.	T	G	3551.41	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
31728	chrY	13542828	.	G	C	1545.39	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
31729	chrY	13542837	.	C	G	5495.14	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
31730	chrY	13542840	.	G	A	1377.46	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
31731	chrY	13542862	.	A	G	3796.11	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
31732	chrY	13542874	.	G	T	47.86	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
31733	chrY	13542886	.	T	C	3224.61	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
31734	chrY	13542887	.	G	A	158.94	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
31735	chrY	13542963	.	A	T	2007.31	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
31736	chrY	13542988	.	A	G	8595.88	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
31737	chrY	13543029	.	A	C	17773.03	PASS	AC=16;AF=0.229;AN=70;Base
31738	chrY	13543032	.	A	G	2727.30	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31739	chrY	13543043	.	T	G	18786.73	PASS	AC=16;AF=0.229;AN=70;Base
31740	chrY	13543083	.	G	T	3291.98	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
31741	chrY	13543096	.	T	A	8589.10	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
31742	chrY	13543101	.	G	T	9470.63	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
31743	chrY	13543121	.	C	T	8568.81	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
31744	chrY	13543165	.	G	A	568.40	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
31745	chrY	13543171	.	C	G	1435.29	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
31746	chrY	13543218	.	A	G	3183.92	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
31747	chrY	13543255	.	G	A	3189.75	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
31748	chrY	13543271	.	A	C	6239.85	my_snp_filter	AC=10;AF=0.152;AN=66;Base
31749	chrY	13543294	.	A	G	4039.43	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31750	chrY	13543310	.	G	A	2660.24	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31751	chrY	13543341	.	G	A	113.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31752	chrY	13543347	.	C	G	5144.88	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31753	chrY	13543382	.	T	G	291.31	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
31754	chrY	13543439	.	A	G	2283.50	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
31755	chrY	13543452	.	G	A	79.37	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
31756	chrY	13543540	.	C	G	329.54	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
31757	chrY	13543556	.	T	G	498.41	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
31758	chrY	13543575	.	C	G	516.98	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
31759	chrY	13543631	.	C	A	2929.45	PASS	AC=26;AF=0.765;AN=34;BaseQRankSum
31760	chrY	13543634	.	A	C,G	1566.95	PASS	AC=4,4;AF=0.080,0.080;AN=50;BaseQ
31761	chrY	13543701	.	T	C	1067.91	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
31762	chrY	13543753	.	A	G	2098.36	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
31763	chrY	13543758	.	A	C	2161.88	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
31764	chrY	13544092	.	T	C	584.88	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31765	chrY	13544100	.	G	T	587.78	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31766	chrY	13544261	.	T	A	2283.26	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
31767	chrY	13544264	.	G	T	382.32	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31768	chrY	13544283	.	G	C	2318.10	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum

31769	chrY	13544327	.	C	A	2685.97	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
31770	chrY	13544493	.	G	C	59.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31771	chrY	13544494	.	T	C	59.32	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31772	chrY	13544498	.	T	C	59.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
31773	chrY	13544546	.	T	C	320.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31774	chrY	13544547	.	G	A	320.70	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
31775	chrY	13544609	.	A	G	721.80	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
31776	chrY	13544613	.	T	C	766.93	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
31777	chrY	13544618	.	G	C	821.92	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
31778	chrY	13544680	.	T	C	1895.55	my_snp_filter	AC=8;AF=0.211;AN=38;BaseQ
31779	chrY	13544730	.	T	C	3112.18	my_snp_filter	AC=15;AF=0.300;AN=50;BaseQ
31780	chrY	13544790	.	A	C	174.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31781	chrY	13544839	.	C	A	27428.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
31782	chrY	13544874	.	C	G	3285.03	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31783	chrY	13544968	.	T	A	64304.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
31784	chrY	13544972	.	A	G	63511.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
31785	chrY	13544985	.	G	A	4310.46	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
31786	chrY	13545116	.	G	C	408.41	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
31787	chrY	13545130	.	T	G	10266.23	PASS	AC=11;AF=0.289;AN=38;BaseQ
31788	chrY	13545140	.	A	G	10315.28	PASS	AC=9;AF=0.281;AN=32;BaseQ
31789	chrY	13545160	.	A	G	7724.68	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
31790	chrY	13545185	.	A	G	1268.47	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
31791	chrY	13545209	.	A	G	5865.95	PASS	AC=10;AF=0.417;AN=24;BaseQRankSum=
31792	chrY	13545271	.	C	A	13544.18	PASS	AC=9;AF=0.321;AN=28;BaseQ
31793	chrY	13545339	.	G	A,*	1628.41	PASS	AC=2,6;AF=0.031,0.094;AN=64;BaseQ
31794	chrY	13545402	.	G	A,*	8817.11	PASS	AC=17,3;AF=0.250,0.044;AN=68;BaseQ
31795	chrY	13545446	.	G	C	15141.57	PASS	AC=23;AF=0.329;AN=70;BaseQ
31796	chrY	13545470	.	T	C	15239.82	PASS	AC=23;AF=0.329;AN=70;BaseQ
31797	chrY	13545519	.	T	C	12766.80	PASS	AC=29;AF=0.439;AN=66;BaseQ
31798	chrY	13545530	.	C	A	5207.89	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
31799	chrY	13545548	.	G	T	15691.25	PASS	AC=34;AF=0.515;AN=66;BaseQ
31800	chrY	13545559	.	T	C	1755.17	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
31801	chrY	13545770	.	C	T	3579.54	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
31802	chrY	13545834	.	A	G	2320.03	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
31803	chrY	13545860	.	C	G	1639.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31804	chrY	13545867	.	C	T	1779.04	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
31805	chrY	13545871	.	A	G	1807.08	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
31806	chrY	13545946	.	C	T	1095.04	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
31807	chrY	13545981	.	A	C	1820.87	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31808	chrY	13545982	.	T	C	1817.87	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31809	chrY	13546002	.	A	C	1616.16	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31810	chrY	13546009	.	T	C	1583.26	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31811	chrY	13546038	.	C	T	86.66	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
31812	chrY	13546301	.	A	C	44.40	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
31813	chrY	13546343	.	A	G	696.86	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
31814	chrY	13546463	.	T	C	5854.34	my_snp_filter	AC=21;AF=0.350;AN=60;BaseQ
31815	chrY	13546467	.	C	T	3161.92	my_snp_filter	AC=12;AF=0.188;AN=64;BaseQ
31816	chrY	13546500	.	G	T	10284.40	PASS	AC=30;AF=0.429;AN=70;BaseQ
31817	chrY	13546523	.	T	G	9434.15	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
31818	chrY	13546558	.	C	A	1206.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31819	chrY	13546567	.	G	A	7543.73	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
31820	chrY	13546700	.	G	C	5471.38	my_snp_filter	AC=20;AF=0.294;AN=68;BaseQ
31821	chrY	13546719	.	C	T	5189.42	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
31822	chrY	13546834	.	C	A	825.03	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
31823	chrY	13546835	.	A	G	864.70	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
31824	chrY	13546851	.	C	G	533.46	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
31825	chrY	13546867	.	G	T	375.25	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
31826	chrY	13546947	.	G	A	157.52	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
31827	chrY	13549070	.	C	A	3708.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
31828	chrY	13549146	.	A	G	3473.86	PASS	AC=18;AF=1.00;AN=18;DP=147;FS=0.0
31829	chrY	13549630	.	T	C	540.62	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
31830	chrY	13549663	.	C	G	785.19	my_snp_filter	AC=7;AF=0.194;AN=36;BaseQ
31831	chrY	13549697	.	C	G	49.13	PASS	AC=2;AF=0.042;AN=48;DP=284;FS=0.0
31832	chrY	13549701	.	T	A	2542.20	my_snp_filter	AC=16;AF=0.348;AN=46;BaseQ
31833	chrY	13549746	.	G	A,T	3240.81	PASS	AC=11,1;AF=0.204,0.019;AN=54;BaseQ
31834	chrY	13549747	.	A	T	121.51	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
31835	chrY	13549759	.	C	T	3254.28	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
31836	chrY	13549796	.	G	T	9744.05	PASS	AC=19;AF=0.365;AN=52;BaseQRankSum=
31837	chrY	13549813	.	A	G	10143.82	PASS	AC=29;AF=0.414;AN=70;BaseQ
31838	chrY	13549853	.	T	A	12241.56	PASS	AC=33;AF=0.471;AN=70;BaseQ
31839	chrY	13549882	.	G	A	10100.25	PASS	AC=31;AF=0.443;AN=70;BaseQ
31840	chrY	13549908	.	C	G,*	4858.40	PASS	AC=5,21;AF=0.074,0.309;AN=68;BaseQ
31841	chrY	13549982	.	A	G	2024.12	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
31842	chrY	13550084	.	G	A	2618.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31843	chrY	13550125	.	A	T	881.29	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
31844	chrY	13550139	.	C	T	3096.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=

31845	chrY	13550167	.	G	A	2743.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31846	chrY	13550182	.	G	A	2203.88	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31847	chrY	13550225	.	G	A	599.22	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31848	chrY	13550240	.	C	T	180.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
31849	chrY	13550252	.	T	A	675.67	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
31850	chrY	13550258	.	G	A	564.81	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
31851	chrY	13550291	.	C	G	1637.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
31852	chrY	13550310	.	T	G	2531.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31853	chrY	13550324	.	G	A	3351.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31854	chrY	13550359	.	A	G	3244.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
31855	chrY	13550439	.	C	T	1106.32	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
31856	chrY	13550510	.	A	T	235.49	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
31857	chrY	13550587	.	G	C	63.61	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
31858	chrY	13550599	.	G	A	196.75	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
31859	chrY	13550603	.	A	G	3340.35	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
31860	chrY	13550653	.	T	C	4251.26	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
31861	chrY	13550668	.	C	T	4798.42	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
31862	chrY	13550714	.	G	C	6948.89	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
31863	chrY	13550759	.	C	A	126.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31864	chrY	13550782	.	A	G	6135.69	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
31865	chrY	13550796	.	T	C	6296.86	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
31866	chrY	13550800	.	T	C	6313.84	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
31867	chrY	13550801	.	G	A	6240.81	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
31868	chrY	13550851	.	T	C	1936.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31869	chrY	13550873	.	A	C	2395.91	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
31870	chrY	13550946	.	A	C	5973.90	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
31871	chrY	13550958	.	T	G	21453.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
31872	chrY	13551088	.	T	C	456.95	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
31873	chrY	13551141	.	C	T	716.01	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
31874	chrY	13551147	.	A	T	691.54	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
31875	chrY	13551380	.	C	T	327.20	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
31876	chrY	13551470	.	C	T	14642.26	PASS	AC=32;AF=0.457;AN=70;BaseQ
31877	chrY	13551502	.	A	G	19522.79	PASS	AC=34;AF=0.486;AN=70;BaseQ
31878	chrY	13551566	.	T	G	43974.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
31879	chrY	13551571	.	G	T	26081.19	PASS	AC=33;AF=0.471;AN=70;BaseQ
31880	chrY	13551609	.	A	T	26078.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
31881	chrY	13551616	.	G	A	1090.51	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31882	chrY	13551688	.	T	C	9766.66	my_snp_filter	AC=33;AF=0.471;AN=70;BaseQ
31883	chrY	13551722	.	C	T	3389.89	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
31884	chrY	13551775	.	T	G	3114	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31885	chrY	13551883	.	T	G	5099.91	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
31886	chrY	13551963	.	G	A	3289.30	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum=
31887	chrY	13552257	.	G	A	585.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31888	chrY	13552295	.	G	T	544.14	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31889	chrY	13552325	.	A	G	60.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
31890	chrY	13552574	.	T	C	4902.89	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQ
31891	chrY	13552584	.	G	A	5152.55	my_snp_filter	AC=11;AF=0.196;AN=56;BaseQ
31892	chrY	13552588	.	T	C	5051.85	my_snp_filter	AC=11;AF=0.204;AN=54;BaseQ
31893	chrY	13552590	.	C	G	4930.44	my_snp_filter	AC=11;AF=0.204;AN=54;BaseQ
31894	chrY	13552593	.	G	A	59.69	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
31895	chrY	13552601	.	C	A	749.79	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
31896	chrY	13552721	.	C	T	2456.10	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
31897	chrY	13552785	.	T	C	717.14	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
31898	chrY	13552810	.	A	G	38.14	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
31899	chrY	13552844	.	A	G	1095.73	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31900	chrY	13552961	.	T	C	121.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31901	chrY	13552969	.	C	T	222.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31902	chrY	13553037	.	G	T	1033.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31903	chrY	13553041	.	A	G	1030.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31904	chrY	13553140	.	A	C	887.14	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
31905	chrY	13553161	.	C	A	778.84	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
31906	chrY	13553211	.	T	A	907.15	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
31907	chrY	13553223	.	A	G	807.50	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
31908	chrY	13553339	.	T	C	6410.98	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
31909	chrY	13553457	.	C	A	403.81	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
31910	chrY	13553465	.	A	G	250.85	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
31911	chrY	13553475	.	G	T	173.69	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
31912	chrY	13553510	.	T	C	114.75	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
31913	chrY	13553614	.	A	G	109.60	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
31914	chrY	13553655	.	A	C	186.39	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
31915	chrY	13554255	.	A	C	1157.88	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31916	chrY	13554370	.	G	A	42.27	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
31917	chrY	13554532	.	G	A	48.48	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
31918	chrY	13554559	.	A	T	322.06	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
31919	chrY	13554730	.	A	G	149.87	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
31920	chrY	13554812	.	C	T	97.98	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ

31921	chrY	13554844	.	C	T	486.53	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
31922	chrY	13554946	.	T	A	602.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31923	chrY	13554952	.	T	C	658.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31924	chrY	13555655	.	T	G	436.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31925	chrY	13555659	.	C	T	466.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31926	chrY	13555664	.	A	T	562.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31927	chrY	13555727	.	T	A	1772.74	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31928	chrY	13555729	.	G	A	1770.98	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31929	chrY	13555794	.	A	G	538.84	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
31930	chrY	13555806	.	C	T	1029.73	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
31931	chrY	13555814	.	C	T	1056.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31932	chrY	13555817	.	T	A	1063.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31933	chrY	13555833	.	G	A	765.42	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
31934	chrY	13555848	.	G	T	879.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
31935	chrY	13555877	.	G	C	564.87	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
31936	chrY	13555934	.	A	C	1225.88	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
31937	chrY	13555954	.	G	T	1468.32	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
31938	chrY	13555973	.	A	T	1789.07	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
31939	chrY	13556017	.	C	G	2976.07	my_snp_filter	AC=12;AF=0.200;AN=60;Base
31940	chrY	13556051	.	G	T	139.42	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
31941	chrY	13556121	.	C	T	2361.37	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
31942	chrY	13556159	.	C	T	2406.65	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
31943	chrY	13556170	.	C	T	49.44	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
31944	chrY	13556376	.	G	C	1973.19	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
31945	chrY	13556416	.	C	A	467.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31946	chrY	13556425	.	G	C	273.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31947	chrY	13556428	.	G	T	243.18	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
31948	chrY	13556437	.	A	T	114.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
31949	chrY	13556505	.	T	A	36.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31950	chrY	13556508	.	T	G	31.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31951	chrY	13556518	.	G	A	204.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31952	chrY	13556522	.	T	G	212.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31953	chrY	13556524	.	T	C	215.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
31954	chrY	13556673	.	A	G	7060.55	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
31955	chrY	13556689	.	G	C	5673.12	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
31956	chrY	13556705	.	T	C	5009.54	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
31957	chrY	13556716	.	T	C	4739.85	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
31958	chrY	13556746	.	A	T	6898.47	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
31959	chrY	13556778	.	A	C	9451.53	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
31960	chrY	13556880	.	T	C	7595.13	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31961	chrY	13556881	.	T	C	7594.72	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31962	chrY	13556901	.	A	T	616.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31963	chrY	13556942	.	A	T	5710.33	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
31964	chrY	13556952	.	A	G	5782.78	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
31965	chrY	13556996	.	T	A	93.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
31966	chrY	13557004	.	G	T	6842.47	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
31967	chrY	13557015	.	A	G	7312.77	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
31968	chrY	13557038	.	C	T	70.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
31969	chrY	13557042	.	A	G	10201.29	PASS	AC=28;AF=0.400;AN=70;Base
31970	chrY	13557116	.	C	T	43733.85	PASS	AC=34;AF=0.486;AN=70;Base
31971	chrY	13557119	.	C	G	44118.85	PASS	AC=34;AF=0.486;AN=70;Base
31972	chrY	13557130	.	C	T	34264.20	PASS	AC=35;AF=0.500;AN=70;Base
31973	chrY	13557365	.	T	A	13140.07	PASS	AC=34;AF=0.630;AN=54;Base
31974	chrY	13557384	.	T	C	12222.11	PASS	AC=22;AF=0.611;AN=36;Base
31975	chrY	13557397	.	T	A	11805.98	PASS	AC=20;AF=0.588;AN=34;Base
31976	chrY	13557422	.	T	G	13593.30	PASS	AC=10;AF=0.500;AN=20;Base
31977	chrY	13557429	.	C	A	13474.52	PASS	AC=11;AF=0.550;AN=20;Base
31978	chrY	13557477	.	A	G	212.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
31979	chrY	13557556	.	A	G	9979.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31980	chrY	13557557	.	C	T	9979.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
31981	chrY	13557652	.	T	G	5663.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
31982	chrY	13557668	.	C	A	6427.84	my_snp_filter	AC=9;AF=0.375;AN=24;BaseQ
31983	chrY	13557734	.	A	G	989.57	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
31984	chrY	13557751	.	G	A	792.81	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
31985	chrY	13557763	.	C	T	3264.70	my_snp_filter	AC=11;AF=0.275;AN=40;Base
31986	chrY	13557808	.	T	A	838.33	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQ
31987	chrY	13557839	.	A	G	350.63	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
31988	chrY	13557858	.	C	T	178.14	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
31989	chrY	13557956	.	A	T	949.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31990	chrY	13557963	.	A	G	1006.12	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31991	chrY	13557964	.	G	C	1028.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31992	chrY	13557966	.	C	T	1031.65	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31993	chrY	13558005	.	T	C	510.38	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31994	chrY	13558029	.	C	G	838.70	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31995	chrY	13558030	.	A	G	837.63	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
31996	chrY	13558042	.	G	C	369.63	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=

31997	chrY	13558044	.	A	G	369.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
31998	chrY	13558114	.	T	A	879.51	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
31999	chrY	13558124	.	C	T	862.93	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32000	chrY	13558127	.	T	A	898.61	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32001	chrY	13558135	.	G	A	1000.53	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32002	chrY	13558138	.	C	A	921.36	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32003	chrY	13558165	.	G	C	1170.93	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
32004	chrY	13558181	.	C	T	1885.96	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32005	chrY	13558182	.	G	A	432.28	PASS	AC=6;AF=0.088;AN=68;DP=473;FS=0.0
32006	chrY	13558190	.	G	T	90.45	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
32007	chrY	13558196	.	C	T	2418.61	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
32008	chrY	13558220	.	A	C	2398.07	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
32009	chrY	13558270	.	G	T	3451.97	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
32010	chrY	13558285	.	C	T	3314.63	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
32011	chrY	13558324	.	C	T	1786.37	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
32012	chrY	13558345	.	T	G	913.93	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
32013	chrY	13558360	.	A	C	1158.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
32014	chrY	13558367	.	G	A	1106.63	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
32015	chrY	13558372	.	G	T	39.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32016	chrY	13558394	.	T	C	82	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32017	chrY	13558465	.	A	G	9815.18	PASS	AC=54;AF=0.818;AN=66;DP=442;FS=0.
32018	chrY	13558504	.	A	G	98.27	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
32019	chrY	13558548	.	A	G	2431.99	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
32020	chrY	13558554	.	A	G	2610.98	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
32021	chrY	13558580	.	A	T	218.78	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
32022	chrY	13558588	.	T	A	2567.90	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
32023	chrY	13558604	.	A	G	992.95	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
32024	chrY	13558622	.	A	T	3577.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32025	chrY	13558674	.	A	T	2633.20	my_snp_filter	AC=11;AF=0.423;AN=26;BaseQ
32026	chrY	13558707	.	T	G	4044.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32027	chrY	13558712	.	A	T	4001.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32028	chrY	13558724	.	C	G	2774.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32029	chrY	13558741	.	G	T	1060.93	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32030	chrY	13558802	.	G	T	3131.71	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
32031	chrY	13558817	.	A	T	979.87	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
32032	chrY	13559055	.	G	A	1454.30	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
32033	chrY	13559064	.	A	C	1981.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32034	chrY	13559069	.	C	A	2084.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32035	chrY	13559094	.	G	A	48.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32036	chrY	13559115	.	G	A	3786.99	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
32037	chrY	13559135	.	C	G	4274.59	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
32038	chrY	13559179	.	C	T	5422.85	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
32039	chrY	13559224	.	A	G	4387.40	my_snp_filter	AC=9;AF=0.214;AN=42;BaseQ
32040	chrY	13559244	.	G	C	3959.28	my_snp_filter	AC=10;AF=0.263;AN=38;BaseQ
32041	chrY	13559293	.	T	C	4296.74	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
32042	chrY	13559307	.	C	T	7183.31	PASS	AC=12;AF=0.429;AN=28;BaseQRankSum=
32043	chrY	13559410	.	A	G	3613.43	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
32044	chrY	13559510	.	T	A	11606.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
32045	chrY	13559516	.	T	A	11636.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
32046	chrY	13559625	.	T	A	8732.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32047	chrY	13559638	.	A	G	8360.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32048	chrY	13559640	.	T	G	8354.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32049	chrY	13559651	.	A	G	7577.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32050	chrY	13559666	.	C	T	38.34	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32051	chrY	13559692	.	T	C	2594.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32052	chrY	13559726	.	C	T	2900.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32053	chrY	13559736	.	T	C	3224.61	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32054	chrY	13559741	.	A	C	3362.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32055	chrY	13559742	.	C	T	3497.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32056	chrY	13559743	.	A	C	3360.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32057	chrY	13559757	.	A	G	3610.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32058	chrY	13559785	.	T	C	3172	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
32059	chrY	13559788	.	C	T	600.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32060	chrY	13559790	.	G	A	600.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32061	chrY	13559812	.	G	A	5489.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32062	chrY	13559823	.	C	G	1934.81	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32063	chrY	13559826	.	T	A	1938.81	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32064	chrY	13559944	.	A	C	913.75	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32065	chrY	13559962	.	G	T	307.68	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32066	chrY	13559963	.	A	G	305.69	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32067	chrY	13560112	.	C	A	150.50	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32068	chrY	13560113	.	G	A	150.84	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32069	chrY	13560150	.	T	C	147.96	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32070	chrY	13560186	.	G	T	41.40	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32071	chrY	13560196	.	A	C	379.73	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32072	chrY	13560225	.	T	G	323.46	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=

32073	chrY	13560237	.	C	T	208.15	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32074	chrY	13560359	.	C	A	918.57	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32075	chrY	13561499	.	G	A	58.23	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32076	chrY	13561548	.	G	A	1399.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32077	chrY	13561562	.	A	G	1923.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32078	chrY	13561586	.	T	A	918.24	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
32079	chrY	13561611	.	G	A	3600.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32080	chrY	13561686	.	A	G	7286.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32081	chrY	13561690	.	G	A	7307.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32082	chrY	13561722	.	G	C	2216.81	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
32083	chrY	13561765	.	C	T	2989.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32084	chrY	13561802	.	A	G	4594.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32085	chrY	13561827	.	G	A	85.22	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
32086	chrY	13561833	.	C	G	82.22	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
32087	chrY	13561896	.	C	T	55.21	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
32088	chrY	13561928	.	G	A	8165.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32089	chrY	13562010	.	C	T	5896.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32090	chrY	13562032	.	G	A	1331.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32091	chrY	13562095	.	G	C	4444.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32092	chrY	13562103	.	G	C	4303.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32093	chrY	13562145	.	A	C	3081.39	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
32094	chrY	13562155	.	A	G	3491.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
32095	chrY	13562159	.	A	T	3626.38	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
32096	chrY	13562168	.	T	G	3605.57	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
32097	chrY	13562206	.	A	T	74.83	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
32098	chrY	13562208	.	C	G	3313.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
32099	chrY	13562223	.	A	G	122.39	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
32100	chrY	13562246	.	T	C	3444.67	PASS	AC=12;AF=0.462;AN=26;BaseQRankSum=
32101	chrY	13562255	.	G	A	227.71	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
32102	chrY	13562324	.	T	C	307.67	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
32103	chrY	13562335	.	C	T	8084	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32104	chrY	13562339	.	C	G	8042.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32105	chrY	13562405	.	T	C	4502.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32106	chrY	13562414	.	T	G	4708.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32107	chrY	13562425	.	C	A	34.87	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
32108	chrY	13562436	.	C	A	3903.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32109	chrY	13562463	.	T	A	36.83	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
32110	chrY	13562499	.	G	C	5645.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32111	chrY	13562597	.	T	A	3814.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32112	chrY	13562637	.	C	T	98.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32113	chrY	13562653	.	C	T	1360.55	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32114	chrY	13562662	.	A	C	120.97	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32115	chrY	13562665	.	T	A	1016.61	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32116	chrY	13562691	.	A	C	1494.81	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32117	chrY	13562698	.	C	T	1929.35	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32118	chrY	13562699	.	A	G	2041.24	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32119	chrY	13562701	.	A	G	2057.15	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32120	chrY	13562720	.	T	C	67.33	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
32121	chrY	13562868	.	G	A	7597.89	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
32122	chrY	13562893	.	A	G	6247.91	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32123	chrY	13562936	.	A	G	334.86	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32124	chrY	13562990	.	G	T	3148.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32125	chrY	13562993	.	T	A	3154.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32126	chrY	13563039	.	A	G	872.36	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
32127	chrY	13563074	.	A	G	1072.26	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
32128	chrY	13563076	.	A	C	1069.62	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
32129	chrY	13563134	.	G	A	40.01	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32130	chrY	13563578	.	A	T	216.56	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32131	chrY	13563615	.	G	A	1730.93	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
32132	chrY	13563618	.	G	T	1864.40	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
32133	chrY	13563622	.	C	T	1982.60	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
32134	chrY	13563647	.	C	G	2394.31	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
32135	chrY	13563681	.	G	A	4691.85	my_snp_filter	AC=10;AF=0.455;AN=22;BaseQ
32136	chrY	13563685	.	C	A	1592.69	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
32137	chrY	13563698	.	T	C	4716.46	my_snp_filter	AC=10;AF=0.500;AN=20;BaseQ
32138	chrY	13563699	.	G	A	1554.01	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32139	chrY	13563712	.	T	C	4927.30	my_snp_filter	AC=10;AF=0.455;AN=22;BaseQ
32140	chrY	13563713	.	G	A	4930.30	my_snp_filter	AC=10;AF=0.455;AN=22;BaseQ
32141	chrY	13563786	.	G	T	353.22	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
32142	chrY	13563875	.	T	G	2106.32	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
32143	chrY	13563885	.	A	G	2283.74	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
32144	chrY	13563907	.	A	T	2674.02	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
32145	chrY	13563985	.	G	A	11215.59	PASS	AC=31;AF=0.443;AN=70;BaseQ
32146	chrY	13564004	.	A	G	11212.23	PASS	AC=31;AF=0.443;AN=70;BaseQ
32147	chrY	13564080	.	T	C	15066.12	PASS	AC=31;AF=0.443;AN=70;BaseQ
32148	chrY	13564081	.	G	C	15066.12	PASS	AC=31;AF=0.443;AN=70;BaseQ

32149	chrY	13564093	.	T	C	12953.25	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
32150	chrY	13564097	.	A	G	12569.03	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
32151	chrY	13564162	.	T	G	4824.10	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
32152	chrY	13564164	.	A	T	406.41	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32153	chrY	13564273	.	T	A	10117.94	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
32154	chrY	13564305	.	C	A	4974.51	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
32155	chrY	13564339	.	A	G	4542.13	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
32156	chrY	13564369	.	A	G	246.80	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
32157	chrY	13564408	.	G	C	1710.94	PASS	AC=18;AF=0.346;AN=52;BaseQRankSum=
32158	chrY	13564421	.	A	G	68.54	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQRankSum=
32159	chrY	13564424	.	A	G	157.75	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
32160	chrY	13564431	.	C	A	357.22	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
32161	chrY	13564438	.	G	C	256.81	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
32162	chrY	13564490	.	A	T	5826.34	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
32163	chrY	13564520	.	G	A	7659.81	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
32164	chrY	13564609	.	T	C	4570.38	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
32165	chrY	13564612	.	G	A	3919.29	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
32166	chrY	13564656	.	T	C	160.60	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
32167	chrY	13564681	.	T	A	157.94	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
32168	chrY	13564743	.	G	C	69.91	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
32169	chrY	13564751	.	T	C	273.55	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
32170	chrY	13564754	.	C	T	344.57	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
32171	chrY	13564769	.	G	A	946.91	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
32172	chrY	13564789	.	G	T	1757.48	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
32173	chrY	13564984	.	C	A	863.47	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32174	chrY	13564989	.	G	C	14409.61	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
32175	chrY	13564990	.	C	T	889.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32176	chrY	13564995	.	C	G	442.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32177	chrY	13565045	.	C	A	12740.20	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
32178	chrY	13565107	.	A	G	17258.80	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
32179	chrY	13565113	.	G	A	17430.88	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
32180	chrY	13565116	.	T	C	17145.94	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
32181	chrY	13565166	.	T	C	10026.92	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
32182	chrY	13565182	.	A	G	816.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32183	chrY	13565341	.	T	G	10141.66	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
32184	chrY	13565368	.	G	C	194.74	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32185	chrY	13565410	.	T	C	7063.93	my_snp_filter	AC=31;AF=0.500;AN=62;BaseQRankSum=
32186	chrY	13565515	.	T	G	74.03	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32187	chrY	13565519	.	A	G	73.94	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32188	chrY	13565705	.	G	C	192.84	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQRankSum=
32189	chrY	13565725	.	T	C	518.10	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
32190	chrY	13565924	.	C	T	1520.03	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
32191	chrY	13565926	.	T	A	1521.34	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
32192	chrY	13565960	.	C	G	357.96	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32193	chrY	13566068	.	A	G	1079.10	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
32194	chrY	13566116	.	G	T	44.70	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
32195	chrY	13566191	.	A	G	133.42	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
32196	chrY	13566210	.	T	C	3202.93	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
32197	chrY	13566223	.	G	A	3072.33	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
32198	chrY	13566259	.	A	G	1779.71	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
32199	chrY	13566268	.	C	T	1830.09	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
32200	chrY	13566325	.	A	G	3017.76	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
32201	chrY	13566336	.	C	G	1457.50	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
32202	chrY	13566439	.	G	C	1305.31	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
32203	chrY	13566453	.	C	A	1216.07	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
32204	chrY	13566499	.	G	A	839.46	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
32205	chrY	13566510	.	C	A	1031.78	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQRankSum=
32206	chrY	13566543	.	T	G	747.42	my_snp_filter	AC=6;AF=0.136;AN=44;BaseQRankSum=
32207	chrY	13566572	.	G	T	699.27	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQRankSum=
32208	chrY	13567025	.	A	G	164.99	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32209	chrY	13567070	.	G	C	581.29	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
32210	chrY	13567075	.	T	G	572.34	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
32211	chrY	13567082	.	C	T	529.30	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
32212	chrY	13567159	.	T	G	150.11	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
32213	chrY	13567202	.	A	G	1126.63	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
32214	chrY	13567214	.	A	C	2013.95	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
32215	chrY	13567254	.	A	C	4878.53	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
32216	chrY	13567313	.	A	T	3567.80	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
32217	chrY	13567325	.	T	C	2079.79	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
32218	chrY	13567342	.	G	A	813.59	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
32219	chrY	13567986	.	C	T	84.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32220	chrY	13567994	.	C	T	82.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32221	chrY	13568873	.	T	C	56.82	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
32222	chrY	13568948	.	C	G	32.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32223	chrY	13568949	.	T	G	32.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32224	chrY	13569004	.	G	C	97.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

32225	chrY	13569087	.	T	C	81.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32226	chrY	13569136	.	T	G	1367.30	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
32227	chrY	13569148	.	C	G	781.68	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
32228	chrY	13569176	.	T	C	2572.07	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
32229	chrY	13569312	.	C	A	5979.49	PASS	AC=12;AF=0.273;AN=44;BaseQRankSum=
32230	chrY	13569389	.	A	C	4468.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32231	chrY	13569443	.	A	C	3860.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32232	chrY	13569498	.	G	A	8044.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32233	chrY	13569507	.	T	C	8334.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32234	chrY	13569509	.	C	A	8364.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32235	chrY	13569532	.	T	C	8273.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32236	chrY	13569580	.	G	A	11032.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
32237	chrY	13569582	.	C	T	11164.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
32238	chrY	13569606	.	C	G	11259.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
32239	chrY	13569676	.	G	T	12347.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
32240	chrY	13569677	.	C	G	12347.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
32241	chrY	13569683	.	C	T	97.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
32242	chrY	13569734	.	G	A	6985.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32243	chrY	13569772	.	G	A	6324.72	PASS	AC=13;AF=0.500;AN=26;BaseQRankSum=
32244	chrY	13569874	.	C	T	6557.39	my_snp_filter	AC=12;AF=0.188;AN=64;BaseQ
32245	chrY	13569882	.	C	G	6674.44	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
32246	chrY	13569904	.	C	T	5770.43	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
32247	chrY	13569939	.	A	G	4591.81	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
32248	chrY	13569945	.	G	A	4534.77	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
32249	chrY	13569951	.	G	A	4296.29	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
32250	chrY	13569960	.	C	G	4015.05	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
32251	chrY	13570023	.	A	G	350.26	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
32252	chrY	13570068	.	T	C	177.20	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32253	chrY	13570072	.	C	T	223.15	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32254	chrY	13570107	.	T	C	949.26	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32255	chrY	13570109	.	C	T	949.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32256	chrY	13570201	.	T	C	5138.25	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
32257	chrY	13570213	.	T	G	7222.71	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
32258	chrY	13570214	.	A	T	2567.57	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
32259	chrY	13570240	.	G	A	5412.31	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
32260	chrY	13570257	.	T	G	5196.36	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
32261	chrY	13570410	.	G	A	5860.18	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
32262	chrY	13570439	.	A	C	3173.81	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
32263	chrY	13570473	.	T	C	8557.30	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
32264	chrY	13570484	.	C	T	8001.49	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
32265	chrY	13570501	.	A	G	8475.61	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
32266	chrY	13570555	.	A	T	11917.97	PASS	AC=15;AF=0.214;AN=70;BaseQ
32267	chrY	13570558	.	C	T	11860.78	PASS	AC=15;AF=0.214;AN=70;BaseQ
32268	chrY	13570637	.	A	G	3625.73	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
32269	chrY	13570641	.	C	T	67.15	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
32270	chrY	13570696	.	T	C	3905.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32271	chrY	13570757	.	T	C	182.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32272	chrY	13570760	.	C	T	1777.71	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32273	chrY	13570763	.	A	G	4361.53	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32274	chrY	13570848	.	C	T	1430.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32275	chrY	13570876	.	C	T	686.48	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32276	chrY	13570928	.	T	C	373.37	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
32277	chrY	13570953	.	A	G	111.03	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
32278	chrY	13570963	.	G	T	74.53	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
32279	chrY	13571008	.	A	G	110.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32280	chrY	13571106	.	C	T	971.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32281	chrY	13571109	.	A	C	969.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32282	chrY	13571174	.	T	C	496.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32283	chrY	13571183	.	T	G	449.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32284	chrY	13571234	.	A	T	110.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32285	chrY	13571383	.	A	G	254.97	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32286	chrY	13571464	.	T	C	1580.69	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
32287	chrY	13571482	.	C	T	1561.81	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
32288	chrY	13571484	.	C	T	1573.80	PASS	AC=8;AF=0.211;AN=38;BaseQRankSum=
32289	chrY	13571544	.	C	T	57.71	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
32290	chrY	13571695	.	T	G	317.17	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32291	chrY	13571778	.	T	G	1400.70	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32292	chrY	13571779	.	C	T	1405.05	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32293	chrY	13571780	.	C	G	1400.96	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32294	chrY	13571844	.	A	T	113.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32295	chrY	13571845	.	G	A	111.01	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32296	chrY	13571850	.	A	C	112.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32297	chrY	13571853	.	C	T	114.28	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32298	chrY	13571858	.	A	T	72.45	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32299	chrY	13571998	.	T	C	245.22	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32300	chrY	13572046	.	T	A	71.27	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ

32301	chrY	13572066	.	A	G	4570.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32302	chrY	13572072	.	G	A	4759.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32303	chrY	13572085	.	G	C	2706.36	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
32304	chrY	13572088	.	C	A	4780.08	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32305	chrY	13572150	.	A	G	4880.83	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
32306	chrY	13572174	.	C	T	4959.83	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
32307	chrY	13572195	.	T	C	5136.68	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
32308	chrY	13572301	.	C	G	5447.40	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
32309	chrY	13572309	.	C	T	58.23	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
32310	chrY	13572354	.	C	G	6213.47	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
32311	chrY	13572366	.	G	T	6792.51	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
32312	chrY	13572369	.	A	G	6695.98	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
32313	chrY	13572438	.	T	C	18932.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
32314	chrY	13572510	.	C	T	709.54	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32315	chrY	13572524	.	G	T	15892.54	PASS	AC=34;AF=0.486;AN=70;BaseQ
32316	chrY	13572527	.	T	A	704.49	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32317	chrY	13572588	.	C	T	35.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32318	chrY	13572613	.	T	G	8629.93	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum=
32319	chrY	13572626	.	A	G	8036.76	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
32320	chrY	13572647	.	G	C	5049.91	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
32321	chrY	13572704	.	T	C	4653.52	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
32322	chrY	13572705	.	G	A	510.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32323	chrY	13572709	.	G	A	998.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
32324	chrY	13572721	.	T	C	3582.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
32325	chrY	13572726	.	T	C	3355.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
32326	chrY	13572727	.	G	A	191.61	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
32327	chrY	13572754	.	T	G	1332.53	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
32328	chrY	13572803	.	A	T	539.16	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
32329	chrY	13572804	.	T	G	536.65	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
32330	chrY	13572807	.	G	A	521.65	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
32331	chrY	13572881	.	C	T	4537.06	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum=
32332	chrY	13572922	.	A	C	15294.53	PASS	AC=32;AF=0.457;AN=70;BaseQ
32333	chrY	13572932	.	T	C	16525.51	PASS	AC=32;AF=0.457;AN=70;BaseQ
32334	chrY	13572999	.	A	G	26056.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
32335	chrY	13573033	.	A	C	21534.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
32336	chrY	13573108	.	G	C	9375.11	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
32337	chrY	13573152	.	C	A	4074.20	PASS	AC=23;AF=0.383;AN=60;BaseQRankSum=
32338	chrY	13573216	.	G	A	3735.57	my_snp_filter	AC=17;AF=0.283;AN=60;BaseQ
32339	chrY	13573240	.	C	T	3776.48	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
32340	chrY	13573271	.	G	T	6317.28	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
32341	chrY	13573324	.	A	G	81.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32342	chrY	13573413	.	T	C	9089.58	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
32343	chrY	13573418	.	T	G	8952.42	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
32344	chrY	13573600	.	G	A	6644.74	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32345	chrY	13573609	.	G	A	9718.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32346	chrY	13573618	.	T	C	9810.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32347	chrY	13573622	.	C	T	9419.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32348	chrY	13573731	.	C	T	6190.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32349	chrY	13573755	.	T	C	5468.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32350	chrY	13573795	.	T	A	3018.20	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
32351	chrY	13573809	.	G	C	100.25	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
32352	chrY	13573846	.	T	A	1570.24	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ
32353	chrY	13573885	.	G	C	3162.60	my_snp_filter	AC=8;AF=0.160;AN=50;BaseQ
32354	chrY	13573897	.	A	G	2626.21	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
32355	chrY	13573941	.	A	G	959.77	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
32356	chrY	13573986	.	A	G	687.55	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
32357	chrY	13574421	.	A	G	70.14	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
32358	chrY	13574443	.	A	T	109.89	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32359	chrY	13575228	.	A	G	79.73	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
32360	chrY	13575274	.	G	A	66.64	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
32361	chrY	13575300	.	C	T	61.12	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
32362	chrY	13575542	.	T	A	921.34	PASS	AC=6;AF=0.086;AN=70;DP=588;FS=0.0
32363	chrY	13575656	.	C	A	562.75	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
32364	chrY	13575671	.	G	T	437.41	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32365	chrY	13576786	.	G	A	85.14	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32366	chrY	13576799	.	A	G	109.48	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32367	chrY	13577696	.	G	T	51.56	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32368	chrY	13577725	.	A	C	44.27	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32369	chrY	13577753	.	G	A	64.53	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
32370	chrY	13577797	.	A	G	110.56	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
32371	chrY	13577802	.	A	T	107.35	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
32372	chrY	13577811	.	G	A	107.47	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
32373	chrY	13577907	.	T	C	222.16	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
32374	chrY	13577929	.	A	C	240.69	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
32375	chrY	13577999	.	C	T	1044.81	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
32376	chrY	13578007	.	C	T	1097.29	PASS	AC=10;AF=0.263;AN=38;BaseQRankSum=

32377	chrY	13578048	.	A	G	302.72	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32378	chrY	13578291	.	C	G	525.72	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
32379	chrY	13578321	.	C	T	258.04	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
32380	chrY	13578840	.	C	T	91.43	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32381	chrY	13578852	.	G	A	228.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32382	chrY	13579222	.	C	T	67.48	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
32383	chrY	13579259	.	A	G	318.96	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
32384	chrY	13579269	.	G	A	273.86	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
32385	chrY	13579270	.	T	C	320.48	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
32386	chrY	13579346	.	T	C	102.95	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
32387	chrY	13579347	.	G	C	106.40	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
32388	chrY	13579357	.	C	T	100.09	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32389	chrY	13579528	.	T	C	102.28	PASS	AC=3;AF=0.300;AN=10;BaseQRankSum=
32390	chrY	13579537	.	A	G	86.42	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32391	chrY	13579573	.	A	G	75.39	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32392	chrY	13580566	.	A	C	51.69	PASS	AC=2;AF=0.100;AN=20;DP=160;FS=0.0
32393	chrY	13580572	.	G	T	51.69	PASS	AC=2;AF=0.100;AN=20;DP=159;FS=0.0
32394	chrY	13580574	.	A	C	51.69	PASS	AC=2;AF=0.100;AN=20;DP=162;FS=0.0
32395	chrY	13580608	.	A	C	51.69	PASS	AC=2;AF=0.100;AN=20;DP=159;FS=0.0
32396	chrY	13580610	.	G	C	51.69	PASS	AC=2;AF=0.100;AN=20;DP=160;FS=0.0
32397	chrY	13580611	.	C	T	51.69	PASS	AC=2;AF=0.100;AN=20;DP=157;FS=0.0
32398	chrY	13582018	.	G	A	47.61	PASS	AC=4;AF=0.182;AN=22;DP=171;FS=0.0
32399	chrY	13583093	.	C	T	101.24	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
32400	chrY	13583214	.	C	A	200.90	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
32401	chrY	13583305	.	G	A	1169.52	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32402	chrY	13583326	.	C	T	1090.78	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32403	chrY	13583327	.	A	G	1096.48	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32404	chrY	13583368	.	A	C	193.60	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32405	chrY	13583380	.	C	A	103.04	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32406	chrY	13583616	.	C	T	356.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32407	chrY	13583668	.	G	A	2139.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32408	chrY	13583716	.	C	T	386.83	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32409	chrY	13583731	.	T	G	196.16	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32410	chrY	13583816	.	G	T	203.56	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32411	chrY	13583827	.	T	A	274.61	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32412	chrY	13583853	.	G	C	62.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32413	chrY	13583867	.	G	T	104.62	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
32414	chrY	13583879	.	G	A	4879.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32415	chrY	13583889	.	G	A	5162.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32416	chrY	13583974	.	A	T	1558.35	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32417	chrY	13583982	.	T	C	118.75	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
32418	chrY	13583989	.	T	A	3060.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32419	chrY	13584042	.	T	G	155.61	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32420	chrY	13584048	.	A	C	171.53	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32421	chrY	13584049	.	A	T	396.82	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32422	chrY	13584117	.	C	T	902.84	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
32423	chrY	13584131	.	C	A	1070.81	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
32424	chrY	13584176	.	C	T	121.75	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32425	chrY	13584247	.	T	A	72.83	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
32426	chrY	13584618	.	G	A	37.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32427	chrY	13584714	.	A	T	329.53	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
32428	chrY	13584735	.	A	T	147.75	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32429	chrY	13586599	.	G	A	34.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32430	chrY	13586628	.	C	T	123.54	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
32431	chrY	13586645	.	T	C	596.39	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
32432	chrY	13586658	.	A	G	834.88	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
32433	chrY	13586724	.	G	C	540.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32434	chrY	13586733	.	A	T	2080.28	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
32435	chrY	13586749	.	C	A	2175	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
32436	chrY	13586809	.	G	T	941.71	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
32437	chrY	13586819	.	G	A	3056.76	my_snp_filter	AC=9;AF=0.196;AN=46;BaseQ
32438	chrY	13586823	.	A	G	2904.12	my_snp_filter	AC=9;AF=0.196;AN=46;BaseQ
32439	chrY	13586843	.	T	C	3853.55	my_snp_filter	AC=9;AF=0.237;AN=38;BaseQ
32440	chrY	13586851	.	C	G	3987.67	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
32441	chrY	13586892	.	G	A	3651.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32442	chrY	13586979	.	A	G	5459.99	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32443	chrY	13586998	.	G	T	301.39	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
32444	chrY	13587030	.	A	G	4745.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32445	chrY	13587084	.	G	T	5144.34	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32446	chrY	13587093	.	C	T	5246.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32447	chrY	13587107	.	C	T	4459.12	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32448	chrY	13587122	.	T	C	4947.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32449	chrY	13587130	.	T	A	4826.21	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32450	chrY	13587161	.	C	T	2905.52	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
32451	chrY	13587178	.	T	A	2697.90	my_snp_filter	AC=9;AF=0.205;AN=44;BaseQ
32452	chrY	13587195	.	G	T	2346.58	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ

32453	chrY	13587214	.	T	A	106.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
32454	chrY	13587274	.	C	T	98.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
32455	chrY	13587283	.	A	G	115.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32456	chrY	13587512	.	C	T	1126.74	PASS	AC=6;AF=0.214;AN=28;DP=163;FS=0.0
32457	chrY	13588209	.	C	T	47.46	PASS	AC=2;AF=0.100;AN=20;DP=90;FS=0.00
32458	chrY	13590026	.	A	G	49.06	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
32459	chrY	13590028	.	C	A	49.06	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
32460	chrY	13590346	.	A	C	81.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
32461	chrY	13590366	.	G	T	131.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
32462	chrY	13590517	.	G	T	185.02	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
32463	chrY	13590554	.	C	T	661.94	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32464	chrY	13590560	.	G	A	667.96	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32465	chrY	13590643	.	A	C	623.07	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
32466	chrY	13590701	.	G	A	1757.42	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
32467	chrY	13590702	.	C	T	1757.42	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
32468	chrY	13590730	.	C	T	1356.38	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
32469	chrY	13590731	.	A	G	1356.33	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
32470	chrY	13590824	.	A	G	1227.88	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
32471	chrY	13590830	.	T	C	1219.06	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
32472	chrY	13590835	.	T	A	1158.29	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
32473	chrY	13590859	.	C	T	639.80	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum=
32474	chrY	13590878	.	C	T	414.25	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
32475	chrY	13590892	.	A	G	382.21	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
32476	chrY	13590911	.	T	C	220.08	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
32477	chrY	13590935	.	C	T	120.19	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
32478	chrY	13590942	.	T	C	45.08	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
32479	chrY	13590943	.	G	A	45.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
32480	chrY	13590945	.	C	T	44.93	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
32481	chrY	13590957	.	T	C	75.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32482	chrY	13590992	.	A	G	88.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32483	chrY	13591023	.	G	A	305.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32484	chrY	13591036	.	G	A	419.83	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32485	chrY	13591042	.	C	T	608.36	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
32486	chrY	13591060	.	A	T	514.24	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
32487	chrY	13591078	.	T	C	1038.14	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
32488	chrY	13591085	.	C	T	787.70	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32489	chrY	13591086	.	T	G	814.79	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32490	chrY	13591109	.	G	A	1379.58	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
32491	chrY	13591168	.	G	T	2122.23	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
32492	chrY	13591179	.	A	T,G	2669.23	my_snp_filter	AC=5,14;AF=0.074,0.206;AN
32493	chrY	13591259	.	C	T	5639.54	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
32494	chrY	13591269	.	G	A	5240.22	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
32495	chrY	13591306	.	T	C	117.54	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32496	chrY	13591312	.	T	C	87.01	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32497	chrY	13591316	.	A	C	80.71	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32498	chrY	13591366	.	A	G	47.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
32499	chrY	13591385	.	T	C	100.33	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
32500	chrY	13591415	.	T	A	1774.82	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
32501	chrY	13591428	.	G	A	2345.19	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
32502	chrY	13591443	.	G	A	2709.90	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum=
32503	chrY	13591495	.	C	T	1870.99	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
32504	chrY	13591562	.	T	C	518.86	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
32505	chrY	13591575	.	T	G	185.39	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
32506	chrY	13591578	.	A	T	185.32	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
32507	chrY	13591801	.	G	A	149.62	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
32508	chrY	13591861	.	T	C	100.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32509	chrY	13591865	.	C	T	76.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32510	chrY	13592142	.	G	A	49.43	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
32511	chrY	13593214	.	C	T	950.60	PASS	AC=6;AF=0.086;AN=70;DP=542;FS=0.0
32512	chrY	13593583	.	C	T	131.51	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
32513	chrY	13593743	.	G	T	309.27	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
32514	chrY	13593757	.	A	C	262.08	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
32515	chrY	13593758	.	T	A	238.59	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
32516	chrY	13593779	.	C	T	30.03	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
32517	chrY	13595227	.	G	T	141.95	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32518	chrY	13595233	.	A	G	142.65	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32519	chrY	13595254	.	G	T	316.40	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
32520	chrY	13595280	.	T	C	237	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
32521	chrY	13595418	.	T	G	107.29	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32522	chrY	13595434	.	T	C	261.92	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32523	chrY	13595444	.	C	T	229.22	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32524	chrY	13595587	.	G	A	1114.24	PASS	AC=6;AF=0.086;AN=70;DP=366;FS=0.0
32525	chrY	13595645	.	C	G	1085.43	PASS	AC=6;AF=0.086;AN=70;DP=356;FS=0.0
32526	chrY	13596792	.	C	G	427.35	PASS	AC=6;AF=0.086;AN=70;DP=629;FS=0.0
32527	chrY	13597023	.	T	C	15850.99	PASS	AC=70;AF=1.00;AN=70;BaseQ
32528	chrY	13597348	.	G	A	1132.41	PASS	AC=6;AF=0.086;AN=70;DP=527;FS=0.0

32529	chrY	13597366	.	T	C	33.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32530	chrY	13597576	.	C	T	1118.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32531	chrY	13597907	.	T	A	1201.95	my_snp_filter	AC=10;AF=0.167;AN=60;BaseQ
32532	chrY	13597981	.	T	A	1331.15	PASS	AC=12;AF=0.429;AN=28;BaseQRankSum=
32533	chrY	13598033	.	G	A	476.77	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
32534	chrY	13598054	.	A	T	191.32	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32535	chrY	13598086	.	G	A	287.13	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32536	chrY	13598087	.	C	T	287.13	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32537	chrY	13598103	.	T	C	415.22	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32538	chrY	13598167	.	G	A	1172.05	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32539	chrY	13598223	.	T	C	2507.33	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32540	chrY	13598229	.	T	C	2542.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32541	chrY	13598260	.	A	G	804.81	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32542	chrY	13598371	.	T	G	3359.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32543	chrY	13598385	.	T	C	3298.33	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32544	chrY	13598418	.	A	T	142.12	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
32545	chrY	13598478	.	A	G	479.60	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32546	chrY	13598501	.	A	G	273.71	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32547	chrY	13598511	.	C	G	412.72	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32548	chrY	13598727	.	T	C	2124.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32549	chrY	13598752	.	G	A	2240.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32550	chrY	13598810	.	C	T	2277.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32551	chrY	13598839	.	C	T	618.69	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32552	chrY	13599174	.	T	G	866.15	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32553	chrY	13599188	.	A	G	1014.69	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32554	chrY	13599203	.	C	G	708.06	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32555	chrY	13599243	.	A	T	1185.53	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32556	chrY	13599630	.	T	A	927.35	PASS	AC=7;AF=0.438;AN=16;BaseQRankSum=
32557	chrY	13599670	.	T	C	985.93	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32558	chrY	13599674	.	A	C	940.50	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32559	chrY	13599713	.	C	T	80.70	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
32560	chrY	13599716	.	G	T	81.02	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
32561	chrY	13599722	.	T	A	67.79	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
32562	chrY	13599765	.	A	G	438.69	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
32563	chrY	13599807	.	C	G	311.83	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
32564	chrY	13599829	.	T	C	288.92	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
32565	chrY	13599837	.	G	A	287.79	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32566	chrY	13600271	.	T	A	121.34	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
32567	chrY	13601238	.	A	G	131.13	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32568	chrY	13601336	.	A	G	179.85	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
32569	chrY	13601469	.	G	T	596.50	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32570	chrY	13601505	.	C	A	663.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
32571	chrY	13601541	.	G	C	230.46	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
32572	chrY	13601578	.	C	A	3657.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32573	chrY	13601579	.	A	G	3660.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32574	chrY	13601601	.	C	T	575.17	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
32575	chrY	13601606	.	T	C	555.94	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
32576	chrY	13601623	.	T	C	672.35	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
32577	chrY	13601639	.	G	T	112.95	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
32578	chrY	13601654	.	A	C	130.73	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
32579	chrY	13601658	.	G	A	1345.26	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
32580	chrY	13601688	.	G	A	376.86	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
32581	chrY	13601698	.	G	A	431.63	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQ
32582	chrY	13601710	.	A	G	1627.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32583	chrY	13601717	.	A	G	213.01	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQ
32584	chrY	13601824	.	C	G	3639.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32585	chrY	13601840	.	T	C	2831.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32586	chrY	13601900	.	T	C	177.66	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
32587	chrY	13601903	.	C	T	179.14	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32588	chrY	13602125	.	G	A	158.08	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32589	chrY	13602164	.	T	C	102.77	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32590	chrY	13602208	.	A	G	51.42	PASS	AC=2;AF=0.071;AN=28;DP=218;FS=0.0
32591	chrY	13602216	.	A	T	132.83	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
32592	chrY	13603924	.	C	T	1298.84	PASS	AC=6;AF=0.086;AN=70;DP=721;FS=0.0
32593	chrY	13604922	.	A	G	277.23	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
32594	chrY	13604987	.	G	T	339.66	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
32595	chrY	13605055	.	C	T	152.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32596	chrY	13605074	.	C	T	66.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32597	chrY	13605085	.	T	C	80.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32598	chrY	13605230	.	A	G	794.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32599	chrY	13605255	.	C	T	613.99	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32600	chrY	13605268	.	T	C	147.66	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32601	chrY	13605277	.	C	G	179.45	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32602	chrY	13605289	.	C	G	156.94	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
32603	chrY	13605627	.	C	T	76.69	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32604	chrY	13605640	.	T	C	122.14	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=

32605	chrY	13605764	.	T	C	241.76	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32606	chrY	13605784	.	T	A	130.53	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32607	chrY	13605822	.	T	G	36.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32608	chrY	13605827	.	C	T	36.72	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32609	chrY	13605832	.	G	C	34.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32610	chrY	13605913	.	C	T	375.89	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32611	chrY	13605958	.	C	A	964.27	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32612	chrY	13605982	.	A	G	849.45	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32613	chrY	13606013	.	T	G	33.07	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
32614	chrY	13606055	.	T	C	303.98	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32615	chrY	13606080	.	T	C	495.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32616	chrY	13606090	.	C	T	135.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32617	chrY	13606091	.	T	A	135.04	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32618	chrY	13606105	.	G	T	99.79	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32619	chrY	13606163	.	C	T	75.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32620	chrY	13606219	.	G	A	1984.90	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32621	chrY	13606298	.	C	T	47.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
32622	chrY	13606336	.	C	T	361.64	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32623	chrY	13606401	.	A	C	927.81	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32624	chrY	13606441	.	T	C	929.39	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32625	chrY	13606498	.	A	C	1654.88	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
32626	chrY	13606503	.	A	T	1227.25	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
32627	chrY	13607054	.	C	T	279.45	PASS	AC=2;AF=0.056;AN=36;DP=130;FS=0.0
32628	chrY	13607490	.	T	C	111.89	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
32629	chrY	13607493	.	C	T	112.53	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
32630	chrY	13607516	.	T	C	119.94	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
32631	chrY	13607532	.	A	G	119.21	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
32632	chrY	13607558	.	G	C	336.88	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
32633	chrY	13607561	.	T	C	337.33	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32634	chrY	13607564	.	A	C	336.26	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32635	chrY	13607590	.	C	T	42.19	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
32636	chrY	13607617	.	G	A	63.37	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
32637	chrY	13607622	.	G	A	62.91	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
32638	chrY	13607714	.	A	T	434.38	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32639	chrY	13608891	.	C	T	121.22	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32640	chrY	13608902	.	A	G	307.47	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32641	chrY	13608945	.	A	G	444.86	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32642	chrY	13608946	.	T	C	483.80	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32643	chrY	13608953	.	G	T,A	1009.49	my_snp_filter	AC=3,9;AF=0.044,0.132;AN=
32644	chrY	13608957	.	C	T	43.27	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
32645	chrY	13609023	.	T	C	86.34	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
32646	chrY	13609037	.	C	G	2374.92	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
32647	chrY	13609042	.	C	T	2510.77	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
32648	chrY	13609043	.	G	A	2984	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
32649	chrY	13609045	.	G	T	2491.94	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
32650	chrY	13609066	.	T	C	1348.34	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
32651	chrY	13609074	.	C	T	1479.82	PASS	AC=11;AF=0.289;AN=38;BaseQRankSum=
32652	chrY	13609136	.	C	T	1857.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32653	chrY	13609180	.	C	T	210.74	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32654	chrY	13609197	.	C	A	338.70	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32655	chrY	13609200	.	T	C	313.75	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32656	chrY	13609220	.	G	A	79.78	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32657	chrY	13609233	.	G	A	109.08	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32658	chrY	13609247	.	C	G	516.95	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32659	chrY	13609248	.	T	A	134.76	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32660	chrY	13609250	.	C	T	230.95	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
32661	chrY	13609350	.	T	C	1024.06	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
32662	chrY	13609494	.	C	T	976.33	PASS	AC=6;AF=0.086;AN=70;DP=519;FS=0.0
32663	chrY	13610448	.	T	G	72.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32664	chrY	13610456	.	A	G	78.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32665	chrY	13610461	.	C	T	81.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32666	chrY	13610466	.	T	C	81.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32667	chrY	13610468	.	C	G	81.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32668	chrY	13610482	.	A	G	36.87	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
32669	chrY	13610494	.	C	T	35.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32670	chrY	13610507	.	C	T	91.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32671	chrY	13610509	.	G	C	91.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32672	chrY	13610524	.	C	T	239.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32673	chrY	13610569	.	G	A	287.88	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
32674	chrY	13610577	.	A	C	804.54	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
32675	chrY	13610664	.	A	T	1133.26	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
32676	chrY	13610675	.	G	A	48.50	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
32677	chrY	13610809	.	A	G	1773.89	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32678	chrY	13610818	.	A	C	158.53	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
32679	chrY	13610843	.	A	C	132.47	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
32680	chrY	13610953	.	G	T	580.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=

32681	chrY	13610965	.	A	T	263.90	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32682	chrY	13610966	.	C	T	435.32	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32683	chrY	13610978	.	G	T	64.11	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32684	chrY	13611135	.	G	T	64.36	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32685	chrY	13611172	.	T	C	1283.10	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32686	chrY	13611181	.	C	T	3506.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32687	chrY	13611188	.	C	A	3545.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32688	chrY	13611191	.	G	A	1524.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32689	chrY	13611223	.	G	A	51.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32690	chrY	13611278	.	C	T	77.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
32691	chrY	13611321	.	A	G	2589.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32692	chrY	13611331	.	C	T,G	867.27	PASS	AC=3,2;AF=0.150,0.100;AN=20;BaseQ
32693	chrY	13611342	.	A	T	1199.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32694	chrY	13611361	.	T	A	1219.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32695	chrY	13611365	.	T	G	1601.33	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32696	chrY	13611374	.	C	T	324.04	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32697	chrY	13611375	.	T	C	326.06	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32698	chrY	13611386	.	T	C	952.62	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32699	chrY	13611393	.	G	C	273.63	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32700	chrY	13611413	.	A	G	521.59	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32701	chrY	13611492	.	C	T	72.52	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32702	chrY	13611506	.	T	C	73.27	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32703	chrY	13611525	.	A	G	122	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
32704	chrY	13611575	.	G	A	164.33	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32705	chrY	13611578	.	C	T	296.75	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32706	chrY	13611580	.	G	A	164.01	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32707	chrY	13611671	.	C	T	2650.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32708	chrY	13611675	.	T	G	2627.34	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32709	chrY	13611684	.	C	A	2449.34	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32710	chrY	13611716	.	T	G	1257.78	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32711	chrY	13611755	.	C	G	1838.64	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32712	chrY	13611770	.	T	C	1742.43	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32713	chrY	13611794	.	C	T	1017.32	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32714	chrY	13611806	.	T	C	676.44	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32715	chrY	13611881	.	C	A	1131.10	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32716	chrY	13611901	.	T	C	1144.53	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32717	chrY	13611907	.	T	C	1146.10	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32718	chrY	13611908	.	C	G	1146.10	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
32719	chrY	13611961	.	A	T	1710.81	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32720	chrY	13611965	.	C	A	1710.81	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32721	chrY	13611966	.	C	A	234.07	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32722	chrY	13611970	.	G	A	1639.81	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32723	chrY	13611971	.	C	T	1639.81	PASS	AC=8;AF=0.400;AN=20;BaseQRankSum=
32724	chrY	13612066	.	G	A	482.99	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32725	chrY	13612108	.	C	A	165.88	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32726	chrY	13615431	.	T	C	382.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32727	chrY	13615455	.	T	A	394.44	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32728	chrY	13616132	.	C	T	39.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
32729	chrY	13616146	.	T	A	44.73	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32730	chrY	13616159	.	G	A	110.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32731	chrY	13616193	.	T	C	254.64	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
32732	chrY	13616304	.	A	T	1391.69	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
32733	chrY	13616306	.	T	C	657.34	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
32734	chrY	13616366	.	A	G	375.37	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32735	chrY	13616381	.	C	T	357.82	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
32736	chrY	13616383	.	G	C	378.87	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
32737	chrY	13616421	.	T	A	618.24	PASS	AC=5;AF=0.313;AN=16;BaseQRankSum=
32738	chrY	13616426	.	G	C	838.09	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
32739	chrY	13616457	.	G	T	3122.10	PASS	AC=9;AF=0.643;AN=14;BaseQRankSum=
32740	chrY	13616470	.	T	G	1755.94	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
32741	chrY	13616537	.	A	C	2145.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32742	chrY	13616562	.	G	C	108.98	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32743	chrY	13616570	.	A	C	6151.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32744	chrY	13616595	.	A	C	3166.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32745	chrY	13616601	.	T	G	3255.54	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
32746	chrY	13616620	.	C	T	3313.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32747	chrY	13616629	.	G	A	9635.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32748	chrY	13616660	.	A	G	8060.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32749	chrY	13616755	.	A	T	381.60	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
32750	chrY	13616769	.	C	A	5310.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
32751	chrY	13616836	.	A	G	3828.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32752	chrY	13616912	.	A	G	3580.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32753	chrY	13616925	.	C	T	3360.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32754	chrY	13616929	.	G	C	241.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32755	chrY	13616970	.	G	C	2803.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32756	chrY	13616991	.	T	C	1456.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=

32757	chrY	13617064	.	T	C	5589.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32758	chrY	13617183	.	A	G	187.88	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
32759	chrY	13617318	.	G	A	12986.89	PASS	AC=70;AF=1.00;AN=70;BaseQ
32760	chrY	13618495	.	G	A	190.06	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32761	chrY	13618508	.	T	A	195.71	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
32762	chrY	13618581	.	G	A	50.75	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
32763	chrY	13618653	.	G	A	397.29	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32764	chrY	13618801	.	C	T	55.87	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32765	chrY	13618812	.	C	T	67.47	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32766	chrY	13618825	.	A	C	45.55	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
32767	chrY	13618855	.	T	A	129.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32768	chrY	13618861	.	A	T	129.77	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
32769	chrY	13618863	.	A	C	36.72	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
32770	chrY	13620021	.	G	A	68.22	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
32771	chrY	13620099	.	C	A	155.05	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
32772	chrY	13620117	.	C	T	58.30	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
32773	chrY	13620141	.	C	G	713.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32774	chrY	13620160	.	G	A	78.50	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32775	chrY	13620252	.	T	C	38.88	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
32776	chrY	13620304	.	G	C	331.34	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
32777	chrY	13620311	.	A	C	313.54	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
32778	chrY	13620360	.	C	T	527.69	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
32779	chrY	13620372	.	A	T	505.70	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
32780	chrY	13620374	.	C	A	505.54	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
32781	chrY	13621221	.	C	T	3394.05	PASS	AC=42;AF=0.677;AN=62;BaseQRankSum=
32782	chrY	13621648	.	A	G	39.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32783	chrY	13621657	.	G	A	36.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
32784	chrY	13622184	.	G	T	876.27	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
32785	chrY	13622191	.	C	T	891.61	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
32786	chrY	13622200	.	G	A	53.56	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
32787	chrY	13622263	.	T	C	1609.74	my_snp_filter	AC=7;AF=0.206;AN=34;BaseQ
32788	chrY	13622298	.	G	A	4309.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
32789	chrY	13622302	.	A	C	4467.69	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
32790	chrY	13622315	.	G	T	4573.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32791	chrY	13622324	.	G	C	4504.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32792	chrY	13622377	.	A	T	795.87	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
32793	chrY	13622383	.	G	A	3201.48	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32794	chrY	13622397	.	G	A	3357.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32795	chrY	13622398	.	C	T	3360.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32796	chrY	13622489	.	G	A	117.03	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
32797	chrY	13622497	.	G	T	146.83	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32798	chrY	13622526	.	C	T	424.58	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32799	chrY	13622535	.	C	A	432.45	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
32800	chrY	13622661	.	A	G	985.67	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
32801	chrY	13622662	.	C	T	987.08	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
32802	chrY	13622681	.	G	T	444.49	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
32803	chrY	13622694	.	G	A	322.20	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
32804	chrY	13623183	.	G	A	179.26	PASS	AC=6;AF=0.167;AN=36;DP=189;FS=0.0
32805	chrY	13624488	.	T	C	6630.09	PASS	AC=56;AF=1.00;AN=56;DP=227;FS=0.0
32806	chrY	13626585	.	A	C	1508.01	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
32807	chrY	13627316	.	C	T	7480.14	PASS	AC=44;AF=0.647;AN=68;DP=472;FS=0.0
32808	chrY	13627888	.	G	A	535	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
32809	chrY	13627966	.	T	C	1497.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
32810	chrY	13627978	.	T	C	1481.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
32811	chrY	13628121	.	A	G	418.66	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
32812	chrY	13628176	.	C	A	234.86	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
32813	chrY	13628181	.	G	T	73.14	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
32814	chrY	13628185	.	T	G	420.90	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
32815	chrY	13628212	.	G	A	648.21	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
32816	chrY	13628252	.	C	T	421	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
32817	chrY	13628274	.	T	C	428.80	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
32818	chrY	13628295	.	T	A	240.02	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
32819	chrY	13628306	.	T	G	637	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
32820	chrY	13628309	.	G	A	2330.20	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
32821	chrY	13628441	.	G	A	77.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32822	chrY	13628444	.	A	T	34.39	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
32823	chrY	13628477	.	T	C	3174.94	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
32824	chrY	13628478	.	G	A	3174.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
32825	chrY	13628553	.	T	C	278.74	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
32826	chrY	13628566	.	C	T	238.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32827	chrY	13628567	.	A	G	237.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32828	chrY	13628573	.	G	T	984.74	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
32829	chrY	13628579	.	C	A	75.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32830	chrY	13629732	.	A	G	3635.86	PASS	AC=18;AF=1.00;AN=18;DP=150;FS=0.0
32831	chrY	13630360	.	T	A	1083.48	PASS	AC=6;AF=0.091;AN=66;DP=259;FS=0.0
32832	chrY	13630708	.	A	G	41.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

32833	chrY	13630755	.	A	G	369.95	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32834	chrY	13631187	.	C	T	657.14	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
32835	chrY	13631192	.	G	C	1116.04	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
32836	chrY	13631230	.	A	G	101.85	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
32837	chrY	13631453	.	A	T	540.16	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
32838	chrY	13631502	.	T	C	43.24	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
32839	chrY	13632780	.	G	C	116.61	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
32840	chrY	13632853	.	A	G	666.03	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
32841	chrY	13632867	.	C	T	585.40	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32842	chrY	13632869	.	G	C	432.35	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
32843	chrY	13632896	.	C	T	353.57	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32844	chrY	13632902	.	C	T	351.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
32845	chrY	13633041	.	C	A	1431.05	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32846	chrY	13633044	.	C	A	8554.36	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum=
32847	chrY	13633115	.	T	C	231.65	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
32848	chrY	13633123	.	G	T	268.92	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
32849	chrY	13633193	.	C	G	597.48	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32850	chrY	13633202	.	A	C	758.09	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
32851	chrY	13633213	.	A	G	637.40	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
32852	chrY	13634067	.	T	C	34.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
32853	chrY	13634070	.	A	G	48.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32854	chrY	13634073	.	T	C	48.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32855	chrY	13634115	.	A	G	127.80	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
32856	chrY	13634427	.	T	C	300.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32857	chrY	13634487	.	G	C	242	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32858	chrY	13634493	.	G	T	528.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32859	chrY	13634501	.	C	G	551.47	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32860	chrY	13634571	.	A	C	431.24	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
32861	chrY	13634619	.	T	C	1027.43	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
32862	chrY	13634695	.	T	C	3270.51	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
32863	chrY	13634721	.	C	G	210.92	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
32864	chrY	13634727	.	A	T	315.81	my_snp_filter	AC=6;AF=0.167;AN=36;BaseQ
32865	chrY	13634759	.	A	C	74.32	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
32866	chrY	13634792	.	C	T	2267.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32867	chrY	13634826	.	C	T	448.13	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
32868	chrY	13634919	.	A	T	207.88	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
32869	chrY	13634954	.	A	T	2618.31	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum=
32870	chrY	13635000	.	A	G	446.57	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
32871	chrY	13635011	.	C	T	30.12	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
32872	chrY	13635012	.	G	A	281.06	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
32873	chrY	13635026	.	G	A	31.88	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
32874	chrY	13635072	.	T	G	900.33	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
32875	chrY	13635105	.	C	T	346.06	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
32876	chrY	13635107	.	C	G	346.06	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
32877	chrY	13635126	.	C	A	71.98	my_snp_filter	AC=3;AF=0.079;AN=38;BaseQ
32878	chrY	13635244	.	T	C	109.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32879	chrY	13635280	.	T	G	191.55	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
32880	chrY	13635289	.	C	G	196.26	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
32881	chrY	13635966	.	G	A	221.45	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
32882	chrY	13636000	.	G	A	314.53	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
32883	chrY	13636016	.	C	T	950.14	PASS	AC=13;AF=0.464;AN=28;BaseQRankSum=
32884	chrY	13636021	.	G	A	939.37	PASS	AC=13;AF=0.433;AN=30;BaseQRankSum=
32885	chrY	13636212	.	T	G	239.85	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
32886	chrY	13636217	.	A	G	1400.62	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
32887	chrY	13636496	.	G	C	1791.17	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
32888	chrY	13636499	.	C	A	457.30	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
32889	chrY	13636646	.	A	C	316.65	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
32890	chrY	13636656	.	T	C	3400.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32891	chrY	13636667	.	T	C	5273.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32892	chrY	13636675	.	C	G	3547.78	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32893	chrY	13636683	.	G	T	1650.20	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
32894	chrY	13636714	.	A	G	2221.73	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
32895	chrY	13636745	.	G	C	46.98	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum=
32896	chrY	13636765	.	C	T	95.99	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
32897	chrY	13636788	.	C	T	43.42	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
32898	chrY	13636790	.	A	C	2484.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
32899	chrY	13636843	.	G	C	60.24	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
32900	chrY	13636871	.	T	G	1580.47	my_snp_filter	AC=9;AF=0.196;AN=46;BaseQ
32901	chrY	13636889	.	C	A	1613.75	my_snp_filter	AC=9;AF=0.188;AN=48;BaseQ
32902	chrY	13636903	.	A	G	591.02	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
32903	chrY	13636932	.	A	T	1006.76	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
32904	chrY	13636943	.	G	C	355.82	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
32905	chrY	13636951	.	T	A	299.32	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
32906	chrY	13636965	.	T	G	174.23	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
32907	chrY	13637085	.	C	G	67.40	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
32908	chrY	13637127	.	T	G	139.16	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ

32909	chrY	13637141	.	C	T	111.63	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
32910	chrY	13637178	.	T	C	781.94	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32911	chrY	13637182	.	G	T	783.63	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32912	chrY	13637205	.	C	T	1626.93	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
32913	chrY	13637207	.	G	T	861.70	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32914	chrY	13637213	.	C	T	725.92	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
32915	chrY	13637217	.	C	T	469.75	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
32916	chrY	13637233	.	C	A	611.89	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32917	chrY	13637234	.	G	C	515.48	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32918	chrY	13637247	.	A	G	1154.67	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
32919	chrY	13637248	.	C	A	397.27	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
32920	chrY	13637255	.	G	A	391.43	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
32921	chrY	13637265	.	A	G	339.63	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
32922	chrY	13637267	.	G	A	321.10	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32923	chrY	13637269	.	C	T	276.10	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
32924	chrY	13637272	.	C	T	282.29	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
32925	chrY	13637275	.	G	A	106.19	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
32926	chrY	13637277	.	T	G	497.70	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
32927	chrY	13637285	.	G	C	167.55	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
32928	chrY	13637288	.	G	A	167.16	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
32929	chrY	13637292	.	A	C	191.40	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
32930	chrY	13637399	.	C	T	2477.70	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ
32931	chrY	13637424	.	C	G	2815.39	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
32932	chrY	13637458	.	A	G	236.25	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
32933	chrY	13637461	.	A	G	3366.33	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
32934	chrY	13637469	.	G	C	225.48	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
32935	chrY	13637477	.	G	C	3086.20	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
32936	chrY	13637524	.	T	A	1166.39	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
32937	chrY	13637542	.	G	C	891.73	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
32938	chrY	13637546	.	T	G	855.66	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
32939	chrY	13638201	.	G	C	639.16	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
32940	chrY	13638223	.	T	A	67.23	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
32941	chrY	13638257	.	C	T	206.19	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
32942	chrY	13638262	.	C	A	780.11	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
32943	chrY	13638286	.	G	T	227.74	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
32944	chrY	13638300	.	G	A	190.47	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
32945	chrY	13638311	.	C	T	163.59	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
32946	chrY	13638332	.	G	A	512.85	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
32947	chrY	13638339	.	G	A	1430.44	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
32948	chrY	13638347	.	C	T	222.53	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
32949	chrY	13638367	.	G	C	53.58	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
32950	chrY	13638384	.	A	G	3852.11	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ
32951	chrY	13638386	.	T	G	3461.22	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
32952	chrY	13638426	.	T	A	36.31	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
32953	chrY	13638429	.	G	C	1744.96	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32954	chrY	13638442	.	A	G	1862.48	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
32955	chrY	13638451	.	A	G	63.17	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
32956	chrY	13638475	.	G	A	43.32	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
32957	chrY	13638507	.	T	C	423.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
32958	chrY	13638538	.	C	T	2978.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
32959	chrY	13638544	.	G	C	1207.93	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32960	chrY	13638545	.	G	A	1213.93	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
32961	chrY	13638570	.	C	G	399.51	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
32962	chrY	13638580	.	C	T	338.49	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
32963	chrY	13638584	.	T	A	519.91	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
32964	chrY	13638603	.	G	C	118.03	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
32965	chrY	13638607	.	A	G	737.74	PASS	AC=7;AF=0.269;AN=26;BaseQRankSum=
32966	chrY	13638623	.	G	T	63.89	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
32967	chrY	13638676	.	T	C	464.39	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
32968	chrY	13638678	.	C	G	528.37	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
32969	chrY	13638688	.	G	A	454.76	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
32970	chrY	13638705	.	T	C	53.69	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
32971	chrY	13638714	.	A	G	50.62	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
32972	chrY	13638750	.	A	G	288.08	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
32973	chrY	13638760	.	G	C	280.67	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
32974	chrY	13638902	.	C	G	187.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32975	chrY	13638914	.	A	G	326.54	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
32976	chrY	13638915	.	C	T	35.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
32977	chrY	13638975	.	T	G	170.55	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
32978	chrY	13638977	.	T	A	111.02	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
32979	chrY	13638991	.	T	C	40.65	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
32980	chrY	13639005	.	C	G	202.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32981	chrY	13639015	.	C	T	181.78	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
32982	chrY	13639023	.	A	G	135.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
32983	chrY	13639155	.	T	A	43.75	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
32984	chrY	13639290	.	G	A	37.61	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ

32985	chrY	13640445	.	G	T	31.62	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
32986	chrY	13640469	.	C	T	127.27	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
32987	chrY	13640508	.	T	C	160	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
32988	chrY	13640567	.	A	T	1470.12	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
32989	chrY	13640571	.	A	T	39.07	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
32990	chrY	13640577	.	A	G	1346.75	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
32991	chrY	13640608	.	C	A	36.34	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
32992	chrY	13640613	.	A	C	530.45	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQ
32993	chrY	13640618	.	A	T	37.30	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
32994	chrY	13640645	.	T	C	415.58	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
32995	chrY	13640703	.	T	G	599.99	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
32996	chrY	13640710	.	C	G	584.79	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
32997	chrY	13640738	.	T	A	1607.03	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
32998	chrY	13640750	.	G	C	1705.10	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
32999	chrY	13640813	.	A	G	381.35	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
33000	chrY	13640836	.	C	G	438.67	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
33001	chrY	13640845	.	C	A	5011.48	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
33002	chrY	13640859	.	G	A	4412.23	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
33003	chrY	13640873	.	C	G	3882.44	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
33004	chrY	13640901	.	G	A	39.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33005	chrY	13640908	.	C	G	1875.11	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
33006	chrY	13640914	.	G	A	1657.62	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
33007	chrY	13640926	.	C	T	979.07	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33008	chrY	13640927	.	A	G	964.80	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33009	chrY	13640968	.	A	G	564.42	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
33010	chrY	13641015	.	G	T	1990.27	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum=
33011	chrY	13641031	.	C	G	1766.63	PASS	AC=8;AF=0.182;AN=44;BaseQRankSum=
33012	chrY	13641061	.	T	C	1203.59	PASS	AC=9;AF=0.225;AN=40;BaseQRankSum=
33013	chrY	13641089	.	A	G,T	1977.53	PASS	AC=6,5;AF=0.125,0.104;AN=48;BaseQ
33014	chrY	13641105	.	A	C	827.10	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
33015	chrY	13641120	.	T	C	709.98	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
33016	chrY	13641146	.	G	A	336.32	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
33017	chrY	13641174	.	C	T	515.40	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33018	chrY	13641177	.	T	C	493	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
33019	chrY	13641224	.	A	T	895.11	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
33020	chrY	13641232	.	T	G	36.36	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
33021	chrY	13641249	.	G	A	1142	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33022	chrY	13641262	.	C	T	1622.86	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
33023	chrY	13641268	.	T	C	1597.04	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
33024	chrY	13641308	.	G	C	765.45	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
33025	chrY	13641354	.	T	G	160.64	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
33026	chrY	13641374	.	A	C	84.68	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
33027	chrY	13641378	.	G	C	57.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33028	chrY	13641391	.	A	G	45.78	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33029	chrY	13641473	.	C	T	47.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33030	chrY	13641480	.	C	A	413.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33031	chrY	13641545	.	A	C	127.26	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33032	chrY	13641589	.	C	A	220.81	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33033	chrY	13641604	.	G	T	456.52	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
33034	chrY	13641647	.	A	C	31.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33035	chrY	13642051	.	T	A	1321.67	PASS	AC=6;AF=0.086;AN=70;DP=334;FS=0.0
33036	chrY	13642593	.	T	C	134.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33037	chrY	13642630	.	G	A	786.38	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33038	chrY	13642643	.	A	C	588.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33039	chrY	13642644	.	T	C	586.84	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33040	chrY	13642662	.	G	A	322	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33041	chrY	13642667	.	T	C	66.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33042	chrY	13642865	.	G	T	245.81	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33043	chrY	13642873	.	T	C	220.86	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33044	chrY	13642911	.	A	G	34.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33045	chrY	13643672	.	C	G	85.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33046	chrY	13643681	.	G	C	91.38	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33047	chrY	13643694	.	A	G	80.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33048	chrY	13643702	.	T	A	71.76	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33049	chrY	13643703	.	T	C	71.76	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33050	chrY	13643704	.	G	A	71.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33051	chrY	13643716	.	T	G	80.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33052	chrY	13643717	.	C	G	84.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33053	chrY	13643721	.	C	A	92.34	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33054	chrY	13643733	.	G	A	75.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33055	chrY	13643743	.	G	A	73.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33056	chrY	13643748	.	T	C	69.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33057	chrY	13643752	.	C	G	75.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33058	chrY	13643758	.	T	A	72.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33059	chrY	13643778	.	A	T	66.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33060	chrY	13644480	.	A	C	2443.73	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=

33061	chrY	13644481	.	G	C	2439.68	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum
33062	chrY	13644491	.	A	G	2294.45	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
33063	chrY	13644492	.	A	G	2258.13	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
33064	chrY	13644494	.	G	A	2036.45	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
33065	chrY	13644502	.	T	C	1917.79	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
33066	chrY	13644520	.	A	G	1291.90	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum
33067	chrY	13644527	.	T	A	1125.37	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum
33068	chrY	13644529	.	C	T,*	1098.69	PASS	AC=12,1;AF=0.182,0.015;AN=66;Base
33069	chrY	13644555	.	T	C	578.47	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum
33070	chrY	13644556	.	G	T	577.32	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum
33071	chrY	13644559	.	T	A	492.79	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
33072	chrY	13644560	.	T	C	502.73	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
33073	chrY	13644567	.	A	C	423.91	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum
33074	chrY	13644573	.	T	C	441.57	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
33075	chrY	13644579	.	G	A	442.14	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum
33076	chrY	13644608	.	A	T	593.21	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum
33077	chrY	13644611	.	C	T	595.71	PASS	AC=7;AF=0.152;AN=46;BaseQRankSum
33078	chrY	13644869	.	A	T	55.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33079	chrY	13644873	.	A	G	59.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33080	chrY	13644899	.	A	T	293.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
33081	chrY	13644914	.	C	T	300.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33082	chrY	13644915	.	A	C	296.43	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33083	chrY	13644930	.	T	C	306.89	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
33084	chrY	13644937	.	C	T	310.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33085	chrY	13645008	.	C	A	260.38	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum
33086	chrY	13645009	.	A	G	260.66	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum
33087	chrY	13645012	.	C	T	262.53	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum
33088	chrY	13645013	.	A	G	262.53	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum
33089	chrY	13645015	.	T	C	775.73	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum
33090	chrY	13645023	.	A	T	278.93	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum
33091	chrY	13645026	.	C	T	282.55	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum
33092	chrY	13645036	.	T	C	227.25	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum
33093	chrY	13645037	.	G	T	224.50	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum
33094	chrY	13645041	.	G	T	182.97	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum
33095	chrY	13645647	.	G	A	97.29	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum
33096	chrY	13646098	.	A	T	53.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33097	chrY	13646099	.	A	G	468.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
33098	chrY	13646101	.	G	T,A	635.84	PASS	AC=2,5;AF=0.030,0.076;AN=66;BaseQ
33099	chrY	13646115	.	C	A	692.38	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum
33100	chrY	13646166	.	C	T	50.36	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
33101	chrY	13646178	.	G	T	39.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33102	chrY	13646463	.	G	A	1250.04	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
33103	chrY	13646500	.	A	G	3402.79	PASS	AC=36;AF=0.545;AN=66;DP=432;FS=0.
33104	chrY	13646549	.	C	G	394.48	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum
33105	chrY	13646551	.	A	T	393.50	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum
33106	chrY	13646552	.	A	C	394.68	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum
33107	chrY	13646832	.	G	A	1455.83	PASS	AC=6;AF=0.088;AN=68;DP=417;FS=0.0
33108	chrY	13646933	.	T	G	388.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
33109	chrY	13646937	.	C	G	340.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33110	chrY	13646938	.	G	C	293.22	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33111	chrY	13647394	.	A	T	298.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
33112	chrY	13647474	.	T	A	1307.82	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum
33113	chrY	13647481	.	G	C	640.91	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum
33114	chrY	13647522	.	G	A	65.10	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
33115	chrY	13647530	.	T	A	60.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
33116	chrY	13647531	.	C	T	61.69	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
33117	chrY	13647535	.	T	G	64.54	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
33118	chrY	13647781	.	G	T	1196.29	PASS	AC=6;AF=0.086;AN=70;DP=653;FS=0.0
33119	chrY	13647900	.	A	C	358.85	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum
33120	chrY	13647911	.	A	G	365.12	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum
33121	chrY	13647919	.	C	A	365.70	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum
33122	chrY	13647930	.	G	A	290.87	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33123	chrY	13647932	.	A	T	186.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
33124	chrY	13647934	.	T	C	165.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
33125	chrY	13648002	.	A	C	260.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33126	chrY	13648131	.	G	T	303.30	PASS	AC=2;AF=0.029;AN=70;DP=2286;FS=0.
33127	chrY	13648149	.	T	A	216.06	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
33128	chrY	13648177	.	A	G	92.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33129	chrY	13648179	.	T	A	62.13	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
33130	chrY	13648193	.	A	G	105.39	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
33131	chrY	13648195	.	A	C	112.12	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum
33132	chrY	13648199	.	C	T	50.56	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum
33133	chrY	13648217	.	T	A	45.86	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
33134	chrY	13648224	.	A	T	45.12	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
33135	chrY	13648226	.	T	G	41.46	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
33136	chrY	13648231	.	G	A	37.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum

33137	chrY	13648284	.	A	T	32.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33138	chrY	13649680	.	A	C	264.69	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
33139	chrY	13649699	.	C	A	976.08	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33140	chrY	13649708	.	A	C	842.69	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33141	chrY	13649710	.	G	A	205.40	PASS	AC=1;AF=0.015;AN=66;DP=553;FS=0.0
33142	chrY	13649925	.	C	T	1124.50	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33143	chrY	13649929	.	T	G	1134.32	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33144	chrY	13650391	.	A	G	2237.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
33145	chrY	13650397	.	C	T	2245.54	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
33146	chrY	13650597	.	A	T	36.55	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33147	chrY	13650599	.	G	T	34.06	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33148	chrY	13650757	.	T	C	196.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33149	chrY	13650760	.	A	T	195.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33150	chrY	13650807	.	T	A	3177.46	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
33151	chrY	13650813	.	G	A	49.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33152	chrY	13650842	.	T	A	53.56	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
33153	chrY	13650850	.	G	T	59.09	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33154	chrY	13650851	.	G	A	59.41	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33155	chrY	13650862	.	T	C	47.34	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
33156	chrY	13650872	.	G	C	747.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33157	chrY	13650877	.	G	T	753.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33158	chrY	13650883	.	T	G	1442.74	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
33159	chrY	13650884	.	G	C	1488.72	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
33160	chrY	13650892	.	C	T	1396.87	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
33161	chrY	13650893	.	A	G	1453.48	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
33162	chrY	13650897	.	T	A	1401.19	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33163	chrY	13650899	.	T	G	1399.11	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33164	chrY	13650904	.	G	C	1324.96	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33165	chrY	13650912	.	T	G	1180.28	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33166	chrY	13650923	.	A	G	667.16	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33167	chrY	13650933	.	T	G	928.49	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33168	chrY	13650948	.	T	G	809.56	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33169	chrY	13650958	.	T	G	264.28	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
33170	chrY	13650959	.	A	G	181.88	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
33171	chrY	13650980	.	T	C	37.87	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
33172	chrY	13650992	.	G	A	442.27	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
33173	chrY	13651002	.	A	C	286.24	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33174	chrY	13651005	.	A	G	47.44	PASS	AC=2;AF=0.031;AN=64;DP=1377;FS=0.
33175	chrY	13651009	.	G	A	48.11	PASS	AC=2;AF=0.033;AN=60;DP=1415;FS=0.
33176	chrY	13651024	.	G	A	231.18	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
33177	chrY	13651032	.	T	C	243.74	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
33178	chrY	13651033	.	G	A	249.83	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
33179	chrY	13651327	.	T	A	552.51	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33180	chrY	13651342	.	A	G	72.79	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33181	chrY	13651354	.	G	C	33.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33182	chrY	13651368	.	G	T	1004.97	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
33183	chrY	13651369	.	G	T	674.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33184	chrY	13651372	.	A	T	369.95	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
33185	chrY	13651379	.	G	C	334.80	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33186	chrY	13651394	.	A	G	100.14	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33187	chrY	13651407	.	C	T	167.24	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33188	chrY	13651408	.	A	T	133.07	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
33189	chrY	13651413	.	T	G	74.63	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
33190	chrY	13651414	.	T	G	90.53	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33191	chrY	13651428	.	C	G	37.74	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
33192	chrY	13651438	.	C	G	795.77	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
33193	chrY	13651838	.	G	A	1003.36	PASS	AC=6;AF=0.086;AN=70;DP=657;FS=0.0
33194	chrY	13651925	.	A	G	147.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33195	chrY	13651928	.	G	A	116.57	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33196	chrY	13651931	.	A	T	178.45	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33197	chrY	13651939	.	A	T	2093.89	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33198	chrY	13651941	.	T	A	2102.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33199	chrY	13651945	.	A	C	36.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33200	chrY	13651950	.	A	C	35.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33201	chrY	13651952	.	G	C	2078.84	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33202	chrY	13652792	.	G	A	1351.31	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.0
33203	chrY	13652985	.	C	A	34.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33204	chrY	13653822	.	A	G	72.49	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33205	chrY	13653834	.	T	A	55.60	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33206	chrY	13654112	.	T	G	36.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33207	chrY	13654537	.	A	T	50.82	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33208	chrY	13654538	.	A	G	49.97	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33209	chrY	13654558	.	G	A	106.38	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
33210	chrY	13654575	.	C	G	113.71	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
33211	chrY	13654579	.	A	C	86.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33212	chrY	13654882	.	G	A	792.64	PASS	AC=4;AF=0.059;AN=68;DP=418;FS=0.0

33213	chrY	13654916	.	T	A	1130.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33214	chrY	13655585	.	T	A	33.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33215	chrY	13655597	.	G	T	33.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33216	chrY	13655605	.	C	T	164.09	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33217	chrY	13655627	.	A	G	106.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33218	chrY	13655711	.	C	A	223.62	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33219	chrY	13655783	.	T	A	55.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33220	chrY	13655801	.	T	C	39.34	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33221	chrY	13655805	.	A	G	50.47	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33222	chrY	13655812	.	A	C	63.01	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33223	chrY	13655849	.	G	A	542.66	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
33224	chrY	13655851	.	G	T	492.24	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33225	chrY	13655857	.	G	C	452.87	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33226	chrY	13655860	.	C	T	431.67	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33227	chrY	13655865	.	T	C	402.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33228	chrY	13655874	.	C	A	366.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33229	chrY	13655880	.	C	T	354.98	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33230	chrY	13655881	.	G	A	389.20	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33231	chrY	13655882	.	G	T	256.34	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33232	chrY	13655884	.	A	T	259.11	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33233	chrY	13655885	.	C	T	218.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33234	chrY	13655896	.	G	T	172.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33235	chrY	13655899	.	A	G	174.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33236	chrY	13655900	.	T	A	174.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33237	chrY	13655904	.	A	T	151.45	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33238	chrY	13655913	.	A	G	88.23	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33239	chrY	13656195	.	T	A	8098.45	PASS	AC=50;AF=0.735;AN=68;DP=428;FS=0.
33240	chrY	13656660	.	A	G	16544.89	PASS	AC=70;AF=1.00;AN=70;BaseQ
33241	chrY	13657030	.	T	G	91.06	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
33242	chrY	13657031	.	T	C	82.87	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33243	chrY	13657036	.	A	C	77.42	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33244	chrY	13657048	.	A	G	45.54	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33245	chrY	13657051	.	G	C	45.60	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33246	chrY	13657597	.	A	T	284.36	PASS	AC=2;AF=0.029;AN=70;DP=544;FS=0.0
33247	chrY	13657723	.	C	T	2093.62	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33248	chrY	13657748	.	G	A	79.59	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
33249	chrY	13657755	.	A	C	2191.36	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33250	chrY	13657775	.	A	C	465.22	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33251	chrY	13657777	.	C	T	9957.46	PASS	AC=60;AF=0.909;AN=66;BaseQRankSum=
33252	chrY	13657872	.	G	C	207.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33253	chrY	13657873	.	G	A	207.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33254	chrY	13657978	.	C	G	71.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33255	chrY	13657979	.	A	T	69.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33256	chrY	13657993	.	T	G	38.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33257	chrY	13657996	.	T	C	37.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33258	chrY	13658011	.	C	T	35.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33259	chrY	13658062	.	G	A	1136.10	PASS	AC=6;AF=0.086;AN=70;DP=466;FS=0.0
33260	chrY	13658247	.	G	A	446.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33261	chrY	13658305	.	G	A	1755.55	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33262	chrY	13658313	.	T	G	1750.91	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
33263	chrY	13658652	.	G	A	733.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33264	chrY	13658816	.	G	A	30.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33265	chrY	13658820	.	T	A	31.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33266	chrY	13658825	.	T	A	245.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33267	chrY	13658826	.	G	A	30.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33268	chrY	13658833	.	A	T	207.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33269	chrY	13658839	.	A	G	72.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33270	chrY	13658852	.	G	T,A	232.23	PASS	AC=3,3;AF=0.045,0.045;AN=66;BaseQ
33271	chrY	13658856	.	G	A	42.22	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33272	chrY	13658857	.	C	G	752.70	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
33273	chrY	13658861	.	G	T	34.91	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33274	chrY	13658866	.	C	T	182.31	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
33275	chrY	13658867	.	A	G	469.69	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33276	chrY	13658868	.	A	G	72.98	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33277	chrY	13658871	.	G	A	126.70	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33278	chrY	13658876	.	T	G	214.75	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33279	chrY	13659120	.	C	A	33.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33280	chrY	13659130	.	A	T	36.38	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
33281	chrY	13659132	.	T	A	38.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33282	chrY	13659137	.	C	G	59.89	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
33283	chrY	13659139	.	T	C	37.15	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
33284	chrY	13659148	.	A	C	33.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33285	chrY	13659151	.	T	A	37.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33286	chrY	13659156	.	T	C	5988.43	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
33287	chrY	13659159	.	A	T,G	906.66	PASS	AC=1,3;AF=0.016,0.047;AN=64;BaseQ
33288	chrY	13659173	.	A	C	213.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

33289	chrY	13659185	.	A	T	250.54	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
33290	chrY	13659187	.	A	G	235.03	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33291	chrY	13659189	.	T	A	329.30	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33292	chrY	13659199	.	G	A	762.88	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
33293	chrY	13659211	.	G	A	1981.48	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33294	chrY	13659213	.	G	A	2285.35	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33295	chrY	13659214	.	A	G	1039.93	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
33296	chrY	13659216	.	C	T	3125.16	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33297	chrY	13659227	.	T	G	3802.32	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
33298	chrY	13659237	.	G	A	6046.24	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33299	chrY	13659279	.	A	G	32.40	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
33300	chrY	13659282	.	T	A	33.13	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
33301	chrY	13659286	.	A	G	129.92	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
33302	chrY	13659320	.	T	C	541.11	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33303	chrY	13659343	.	A	G	416.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33304	chrY	13659351	.	T	G	1645.88	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
33305	chrY	13659355	.	T	A	698.21	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
33306	chrY	13659359	.	A	G	1847.18	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33307	chrY	13659364	.	A	G	603.64	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
33308	chrY	13659372	.	A	T	1903.40	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
33309	chrY	13659385	.	T	A	1447.72	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33310	chrY	13659390	.	T	G	1232.02	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33311	chrY	13659392	.	C	G	1233.72	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
33312	chrY	13659397	.	G	A	1064.81	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33313	chrY	13659400	.	A	T	1117.27	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
33314	chrY	13659401	.	G	A	1028.76	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
33315	chrY	13659413	.	C	A	999.84	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
33316	chrY	13659426	.	T	C	673.92	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
33317	chrY	13659435	.	C	T	266.61	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33318	chrY	13659437	.	G	A	69.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33319	chrY	13659438	.	A	T	69.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33320	chrY	13659446	.	A	G	103.62	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
33321	chrY	13659596	.	A	G	1294.11	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
33322	chrY	13659600	.	A	C	1317.80	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33323	chrY	13659601	.	C	A	1290.80	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33324	chrY	13659613	.	T	A	1301.68	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33325	chrY	13659614	.	C	A	1293.21	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33326	chrY	13659622	.	C	G	1279.56	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
33327	chrY	13659629	.	A	C	1293.36	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
33328	chrY	13659658	.	A	T	1167.86	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
33329	chrY	13659660	.	T	C	1158.02	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
33330	chrY	13659691	.	T	C	81.36	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33331	chrY	13659697	.	C	G	72.91	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33332	chrY	13660235	.	C	G	48.60	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
33333	chrY	13660449	.	C	A	840.80	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33334	chrY	13660466	.	G	A	861.81	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33335	chrY	13660467	.	A	C	800.37	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33336	chrY	13660469	.	T	A	31.71	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33337	chrY	13660474	.	T	A	782.99	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33338	chrY	13660475	.	T	A	130.29	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33339	chrY	13660476	.	G	A	30.21	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33340	chrY	13660491	.	G	A	35.16	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33341	chrY	13660493	.	C	A	690.10	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33342	chrY	13660495	.	C	A	633.73	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33343	chrY	13660501	.	G	A	512.87	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33344	chrY	13660510	.	T	C	300.15	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33345	chrY	13660511	.	G	A	235.76	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33346	chrY	13660517	.	G	A	462.85	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33347	chrY	13660518	.	G	A	462.85	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33348	chrY	13660519	.	T	A	78.35	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33349	chrY	13660524	.	A	G	85.32	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33350	chrY	13660525	.	C	T	78.40	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33351	chrY	13660526	.	A	G	78.99	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33352	chrY	13660528	.	A	G	78.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33353	chrY	13660540	.	C	T	253.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33354	chrY	13660544	.	T	A	174.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33355	chrY	13660551	.	G	T	65.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33356	chrY	13661155	.	T	C	2016.43	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33357	chrY	13661158	.	A	T	2009.11	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33358	chrY	13661163	.	A	G	1982.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33359	chrY	13661165	.	G	A	1957.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33360	chrY	13662600	.	C	T	195.48	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
33361	chrY	13662641	.	T	G	1057.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33362	chrY	13662649	.	A	T	1005.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33363	chrY	13662672	.	C	G	617.39	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33364	chrY	13662674	.	G	A	616.75	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=

33365	chrY	13662700	.	T	G	458.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33366	chrY	13662701	.	G	A	459.34	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33367	chrY	13662715	.	A	T	397.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33368	chrY	13662717	.	T	G	100.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33369	chrY	13662917	.	G	C,A	1024.70	PASS	AC=5,1;AF=0.078,0.016;AN=64;BaseQ
33370	chrY	13663014	.	A	G	272.89	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33371	chrY	13663021	.	A	G	279.61	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33372	chrY	13663041	.	G	A	966.77	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33373	chrY	13663047	.	A	G	33.50	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
33374	chrY	13663075	.	A	T	351.71	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
33375	chrY	13663081	.	A	G	311.33	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
33376	chrY	13663097	.	T	G	311.65	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33377	chrY	13663102	.	A	T	292.22	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33378	chrY	13663106	.	T	C	298.57	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33379	chrY	13663107	.	G	A	295.93	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33380	chrY	13663121	.	A	C	249.38	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33381	chrY	13663123	.	G	A	255.38	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33382	chrY	13663145	.	A	T	87.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33383	chrY	13663151	.	C	T	87.07	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33384	chrY	13663167	.	G	A	49.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33385	chrY	13663175	.	T	A	77.58	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33386	chrY	13663180	.	C	T	46.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33387	chrY	13663194	.	A	C	601.84	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
33388	chrY	13663195	.	T	A	511.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33389	chrY	13663196	.	G	C	482.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33390	chrY	13663204	.	A	C	319.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33391	chrY	13663214	.	T	A	37.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33392	chrY	13664278	.	A	G	207.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33393	chrY	13664291	.	C	A	225.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33394	chrY	13664406	.	A	G	187.71	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33395	chrY	13664409	.	C	G	1133.77	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33396	chrY	13664414	.	C	A	268.20	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33397	chrY	13664418	.	G	A	2212.03	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
33398	chrY	13664424	.	A	G,T	2705.62	PASS	AC=4,5;AF=0.067,0.083;AN=60;BaseQ
33399	chrY	13664428	.	A	G	930.49	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
33400	chrY	13664429	.	G	C	59	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33401	chrY	13664433	.	A	G	4259.06	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
33402	chrY	13664437	.	T	G,A	729.60	PASS	AC=3,6;AF=0.045,0.091;AN=66;BaseQ
33403	chrY	13664438	.	A	T	3400.53	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
33404	chrY	13664440	.	T	A	4385.56	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
33405	chrY	13664452	.	T	C	153.31	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33406	chrY	13664453	.	C	T	2127.19	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
33407	chrY	13664456	.	A	G	2074.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33408	chrY	13664464	.	G	C	46.49	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33409	chrY	13664468	.	C	T	2827.52	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33410	chrY	13664472	.	T	A	2021.58	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
33411	chrY	13664475	.	A	G	2026.05	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33412	chrY	13664488	.	G	A	2031.14	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33413	chrY	13664492	.	A	T	2296.98	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33414	chrY	13664496	.	A	C	2322.30	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
33415	chrY	13664498	.	C	G	87.35	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33416	chrY	13664499	.	C	G	2254.52	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
33417	chrY	13664514	.	C	A	1513.94	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
33418	chrY	13664527	.	C	T	881.37	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
33419	chrY	13664528	.	T	G	710.31	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
33420	chrY	13664532	.	C	T	790.27	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
33421	chrY	13664533	.	A	G	359.32	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
33422	chrY	13664539	.	G	C	167.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33423	chrY	13664543	.	C	A	122.83	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33424	chrY	13664766	.	C	A,*	1067.15	PASS	AC=2,1;AF=0.033,0.017;AN=60;BaseQ
33425	chrY	13664768	.	T	A,*	1066.44	PASS	AC=2,1;AF=0.034,0.017;AN=58;BaseQ
33426	chrY	13664771	.	A	T	59.25	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33427	chrY	13664772	.	A	T	60.81	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
33428	chrY	13664862	.	T	G	236.30	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33429	chrY	13664866	.	G	A	503.60	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
33430	chrY	13664867	.	T	A	503.11	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33431	chrY	13664872	.	A	T	42.13	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33432	chrY	13664873	.	G	A	41.64	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33433	chrY	13664878	.	T	C	367.15	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
33434	chrY	13664884	.	G	A	154.22	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33435	chrY	13664899	.	A	G	199.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33436	chrY	13664906	.	T	A	198.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33437	chrY	13664913	.	A	G	240.82	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33438	chrY	13664926	.	C	G	191.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33439	chrY	13664931	.	A	G	193.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33440	chrY	13664941	.	A	C	196.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

33441	chrY	13664968	.	G	A	211.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33442	chrY	13664973	.	C	G	212.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33443	chrY	13665003	.	T	G	289.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33444	chrY	13665027	.	C	T	211.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33445	chrY	13665029	.	G	T	211.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33446	chrY	13665032	.	A	T	205.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33447	chrY	13665053	.	G	C	118.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33448	chrY	13665054	.	G	A	118.65	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33449	chrY	13665073	.	T	A	76.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33450	chrY	13665078	.	A	C	37.59	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33451	chrY	13665094	.	G	A	31.46	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
33452	chrY	13665095	.	C	A	31.13	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
33453	chrY	13665148	.	A	G	8167.84	PASS	AC=50;AF=0.806;AN=62;DP=410;FS=0.
33454	chrY	13665477	.	C	T	56.11	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33455	chrY	13665509	.	A	G	32.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33456	chrY	13665517	.	A	T	31.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33457	chrY	13665608	.	T	C	31.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33458	chrY	13665903	.	C	G	79.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33459	chrY	13665974	.	T	A	584.11	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33460	chrY	13666000	.	A	T	880.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33461	chrY	13666005	.	C	A	877.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
33462	chrY	13666081	.	G	T	220.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33463	chrY	13666094	.	G	A	185.28	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
33464	chrY	13666096	.	C	G	205.72	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33465	chrY	13666206	.	C	T	208.13	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33466	chrY	13666211	.	G	A	195.70	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33467	chrY	13666275	.	T	G	174.47	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
33468	chrY	13666878	.	A	C	59.24	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
33469	chrY	13666897	.	A	C	128.05	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33470	chrY	13666905	.	C	A	157.72	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
33471	chrY	13666924	.	C	T	70.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33472	chrY	13666929	.	C	T	303.34	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
33473	chrY	13666937	.	A	G	149.75	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33474	chrY	13666941	.	C	G	152.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33475	chrY	13666966	.	C	T	1431.80	PASS	AC=6;AF=0.086;AN=70;DP=571;FS=0.0
33476	chrY	13667438	.	T	C	87.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33477	chrY	13667441	.	A	G	125.79	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
33478	chrY	13667447	.	G	C	148.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33479	chrY	13667674	.	A	G	270.12	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33480	chrY	13668003	.	A	G	631.27	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
33481	chrY	13668011	.	T	G	534.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33482	chrY	13668023	.	C	G	45.55	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33483	chrY	13668024	.	T	A	44.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33484	chrY	13668028	.	A	T	30.86	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33485	chrY	13668054	.	A	T	705.32	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33486	chrY	13668056	.	G	C	698.09	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33487	chrY	13668060	.	G	A	608.28	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
33488	chrY	13668069	.	A	G,C	603.22	PASS	AC=1,7;AF=0.014,0.100;AN=70;BaseQ
33489	chrY	13668071	.	G	A	457.27	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33490	chrY	13668084	.	A	T	52.87	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33491	chrY	13668159	.	T	G	844.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33492	chrY	13668188	.	A	G	2019.58	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
33493	chrY	13668190	.	C	T	2068.29	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
33494	chrY	13668191	.	G	T	2010.64	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
33495	chrY	13668203	.	T	G	2055.21	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33496	chrY	13668593	.	G	T	59.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33497	chrY	13668613	.	A	C	31.24	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33498	chrY	13669047	.	C	A	270.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33499	chrY	13669076	.	G	T	1290.87	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33500	chrY	13669081	.	C	T	1267	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
33501	chrY	13669086	.	G	T	1169.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33502	chrY	13669092	.	G	A	566.40	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33503	chrY	13669330	.	A	T	1532.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33504	chrY	13669331	.	T	A	1533.51	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33505	chrY	13669343	.	G	A	1101.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33506	chrY	13669344	.	A	G	1070.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33507	chrY	13669346	.	A	G	100.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33508	chrY	13669357	.	A	C	46.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33509	chrY	13669359	.	A	G	45.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33510	chrY	13669365	.	C	A	50.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33511	chrY	13669367	.	T	A	49.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33512	chrY	13669370	.	A	T	40.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33513	chrY	13669794	.	C	T	668.49	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
33514	chrY	13669797	.	C	A	640.84	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
33515	chrY	13669828	.	T	C	161.41	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33516	chrY	13669841	.	G	T	733.92	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=

33517	chrY	13670169	.	T	G	247.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33518	chrY	13670199	.	C	G	856.28	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33519	chrY	13670202	.	A	G	856.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33520	chrY	13670212	.	G	A	862.08	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33521	chrY	13670214	.	C	T	880.93	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33522	chrY	13670958	.	C	T	1968.37	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33523	chrY	13670975	.	A	G	1648.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33524	chrY	13670977	.	C	G	38.57	PASS	AC=1;AF=0.015;AN=68;DP=492;FS=0.0
33525	chrY	13671195	.	T	C	7556.65	PASS	AC=44;AF=0.647;AN=68;DP=489;FS=0
33526	chrY	13671394	.	T	A	92.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33527	chrY	13672090	.	G	A	10329.03	PASS	AC=64;AF=1.00;AN=64;DP=36
33528	chrY	13672421	.	A	G	263.50	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
33529	chrY	13672508	.	A	G	142.34	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33530	chrY	13672518	.	A	T	91.81	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33531	chrY	13672519	.	C	T	96.56	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33532	chrY	13673097	.	C	A	354.17	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33533	chrY	13673679	.	C	G	2061.76	PASS	AC=34;AF=0.680;AN=50;DP=363;FS=0.
33534	chrY	13673732	.	T	A	287.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33535	chrY	13673843	.	C	T	1341.43	PASS	AC=12;AF=0.176;AN=68;DP=436;FS=0.
33536	chrY	13673908	.	T	G	153.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33537	chrY	13674710	.	G	A	217.54	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
33538	chrY	13674711	.	T	A	176.29	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
33539	chrY	13674716	.	A	T	193.15	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
33540	chrY	13674717	.	A	G	200.15	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
33541	chrY	13674718	.	A	C	200.18	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
33542	chrY	13674737	.	A	C	76.65	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
33543	chrY	13674738	.	G	A	75.67	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
33544	chrY	13675442	.	G	A	112.57	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
33545	chrY	13675448	.	G	T	101.69	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
33546	chrY	13675486	.	T	C	56.49	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
33547	chrY	13675502	.	C	A	202.72	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
33548	chrY	13675672	.	C	A	969.45	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
33549	chrY	13675711	.	C	T	38.60	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33550	chrY	13675712	.	A	G	36.88	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
33551	chrY	13675722	.	A	G	38.85	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33552	chrY	13676203	.	T	G	839	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
33553	chrY	13676511	.	G	A	49.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33554	chrY	13676541	.	C	G	80.89	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
33555	chrY	13676885	.	G	C	230.36	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
33556	chrY	13677112	.	T	G	36.57	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
33557	chrY	13677797	.	T	G	322.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33558	chrY	13677809	.	G	C	35.76	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33559	chrY	13677813	.	T	G	388.82	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
33560	chrY	13677818	.	G	A	70.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33561	chrY	13677823	.	C	A	89.84	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33562	chrY	13677832	.	T	C	158.48	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33563	chrY	13677834	.	A	C,G	407.94	PASS	AC=3,3;AF=0.054,0.054;AN=56;BaseQ
33564	chrY	13677835	.	A	G	40.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33565	chrY	13677842	.	G	T	995.36	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
33566	chrY	13677844	.	G	C	121.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33567	chrY	13677848	.	G	T	34.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33568	chrY	13677852	.	T	A	37.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33569	chrY	13677858	.	T	G	330.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33570	chrY	13677864	.	A	G	358.43	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
33571	chrY	13677865	.	A	T	263.88	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
33572	chrY	13677869	.	G	C	258.61	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
33573	chrY	13677874	.	G	A	38.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33574	chrY	13677993	.	G	T	887.86	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33575	chrY	13677996	.	C	A	887.99	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33576	chrY	13677999	.	A	G	224.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33577	chrY	13678003	.	A	G	937.20	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33578	chrY	13678005	.	A	T	121.52	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
33579	chrY	13678013	.	A	C,T	729.19	PASS	AC=2,1;AF=0.031,0.016;AN=64;BaseQ
33580	chrY	13678026	.	C	A	435.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33581	chrY	13678027	.	T	A	85.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33582	chrY	13678073	.	C	T	35.60	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33583	chrY	13678074	.	G	A	43.92	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
33584	chrY	13678246	.	G	A	57.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33585	chrY	13678260	.	C	T	111.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33586	chrY	13678264	.	A	G	118.95	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33587	chrY	13678270	.	A	G	132.31	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33588	chrY	13678274	.	A	T	118.84	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33589	chrY	13678275	.	C	A	118.26	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33590	chrY	13678276	.	A	G	120.01	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
33591	chrY	13678314	.	T	G	64.01	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33592	chrY	13678320	.	A	G	81.85	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=

33593	chrY	13678321	.	G	C	37.47	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33594	chrY	13678377	.	T	A	44.68	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
33595	chrY	13678467	.	T	A	119.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33596	chrY	13678484	.	G	A	34.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33597	chrY	13678487	.	A	T	34.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33598	chrY	13678496	.	T	A	90.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33599	chrY	13678503	.	T	G	118.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33600	chrY	13678639	.	G	A	89.93	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33601	chrY	13678642	.	G	T	96.80	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
33602	chrY	13678643	.	C	G	96.99	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33603	chrY	13678858	.	T	A	112.65	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33604	chrY	13678863	.	C	T	184.88	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33605	chrY	13678864	.	T	G	229.77	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33606	chrY	13678867	.	T	A	115.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33607	chrY	13678869	.	G	T	36.55	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
33608	chrY	13678878	.	C	T	31.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33609	chrY	13678879	.	A	T	186.68	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33610	chrY	13678888	.	G	A	123.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33611	chrY	13678908	.	G	T	1089.37	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33612	chrY	13678909	.	G	T	1089.68	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33613	chrY	13678928	.	A	G	675.61	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33614	chrY	13678936	.	A	C	114.36	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33615	chrY	13679130	.	A	C	321.16	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
33616	chrY	13679146	.	C	G	922.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33617	chrY	13679152	.	T	C	900.58	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
33618	chrY	13679257	.	T	G	70.24	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33619	chrY	13679268	.	G	C	61.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33620	chrY	13679269	.	G	A	55.50	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33621	chrY	13679293	.	G	C	49.22	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
33622	chrY	13679779	.	G	T	150.70	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33623	chrY	13679786	.	A	G	146	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33624	chrY	13679906	.	T	G	1783.77	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33625	chrY	13679907	.	G	T	1775.74	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33626	chrY	13679927	.	G	T	241.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33627	chrY	13679959	.	A	T	82.86	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33628	chrY	13679962	.	A	G	121.93	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33629	chrY	13679984	.	G	T	76.84	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
33630	chrY	13679985	.	T	C	44.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
33631	chrY	13680000	.	C	T	112.37	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33632	chrY	13680001	.	T	C	131.12	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
33633	chrY	13680016	.	G	T	41.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33634	chrY	13680394	.	A	T	160.56	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33635	chrY	13680949	.	T	A,*	494.60	my_snp_filter	AC=2,1;AF=0.032,0.016;AN=
33636	chrY	13681005	.	G	C,T,A	2074.33	my_snp_filter	AC=6,1,1;AF=0.125,0.021,0
33637	chrY	13681006	.	A	G	3228.29	my_snp_filter	AC=12;AF=0.222;AN=54;Base
33638	chrY	13681013	.	G	A	1265.63	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
33639	chrY	13681023	.	C	A	209.33	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
33640	chrY	13681024	.	T	C	142.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33641	chrY	13681026	.	C	G	71.24	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
33642	chrY	13681031	.	T	G	72.08	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
33643	chrY	13681750	.	G	A	2622.01	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
33644	chrY	13681752	.	C	A	2615.30	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
33645	chrY	13681753	.	C	G	2617.62	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
33646	chrY	13681802	.	T	A	479.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33647	chrY	13681810	.	A	T	895.64	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33648	chrY	13681815	.	A	G	4323.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33649	chrY	13681817	.	G	A	4328.20	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33650	chrY	13681835	.	A	C	522.06	PASS	AC=2;AF=0.029;AN=68;DP=625;FS=0.0
33651	chrY	13682052	.	G	A	439.62	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33652	chrY	13682535	.	T	A	557.25	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33653	chrY	13682963	.	G	A	1780.79	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
33654	chrY	13682967	.	A	G	1758.24	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
33655	chrY	13682977	.	A	G	1340.84	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
33656	chrY	13683181	.	T	A	700.85	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33657	chrY	13683182	.	G	A	726.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33658	chrY	13683184	.	C	T	669.52	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33659	chrY	13683188	.	G	T	474.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33660	chrY	13683193	.	C	G	544.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33661	chrY	13683196	.	C	T	533.48	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33662	chrY	13683198	.	A	G	497.54	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
33663	chrY	13683203	.	G	A	367.85	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33664	chrY	13683206	.	A	T	370.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
33665	chrY	13683220	.	A	C	275.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33666	chrY	13683221	.	A	T	271.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33667	chrY	13683232	.	A	G	265.74	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33668	chrY	13683235	.	C	T	181.04	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=

33669	chrY	13683238	.	T	G	166.24	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33670	chrY	13683248	.	C	T	166.51	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
33671	chrY	13683251	.	G	T	168.38	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33672	chrY	13683261	.	T	G	161.02	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
33673	chrY	13683265	.	G	T	161.46	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
33674	chrY	13683601	.	T	A	327.47	PASS	AC=2;AF=0.029;AN=70;DP=459;FS=0.0
33675	chrY	13683787	.	G	A	511.52	PASS	AC=6;AF=0.094;AN=64;DP=436;FS=0.0
33676	chrY	13684275	.	G	A	508	PASS	AC=4;AF=0.057;AN=70;DP=450;FS=0.0
33677	chrY	13684322	.	T	A	37.32	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
33678	chrY	13684351	.	A	T	48.37	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33679	chrY	13684371	.	C	G	402.02	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33680	chrY	13684373	.	C	T	293.43	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33681	chrY	13684379	.	C	G	384.41	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
33682	chrY	13684380	.	A	G	307.36	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
33683	chrY	13684389	.	A	C	417.13	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
33684	chrY	13684393	.	G	C	324.19	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
33685	chrY	13684400	.	C	A	333.91	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33686	chrY	13684403	.	T	C	446.21	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
33687	chrY	13684410	.	A	C	323.29	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
33688	chrY	13684412	.	G	T	431.91	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
33689	chrY	13684427	.	T	C	193.64	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
33690	chrY	13684428	.	C	T	53.45	PASS	AC=2;AF=0.037;AN=54;DP=492;FS=0.0
33691	chrY	13684431	.	A	G	49.05	PASS	AC=2;AF=0.036;AN=56;DP=515;FS=0.0
33692	chrY	13684432	.	T	A	51.62	PASS	AC=2;AF=0.036;AN=56;DP=518;FS=0.0
33693	chrY	13684447	.	T	A	55.25	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33694	chrY	13684463	.	T	A	95.35	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
33695	chrY	13684464	.	T	G	98.70	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33696	chrY	13684772	.	G	A	32.12	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
33697	chrY	13684775	.	T	C	32.93	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
33698	chrY	13684776	.	A	C	36.69	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
33699	chrY	13684779	.	A	G	33.51	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
33700	chrY	13684786	.	A	G	41.31	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
33701	chrY	13684787	.	T	G	41.99	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
33702	chrY	13685037	.	G	T	1215.31	PASS	AC=6;AF=0.086;AN=70;DP=571;FS=0.0
33703	chrY	13685386	.	C	A	142.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33704	chrY	13685429	.	A	C	120.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
33705	chrY	13685721	.	A	G	155.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33706	chrY	13685723	.	G	C	95.48	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33707	chrY	13685736	.	G	A	151.20	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33708	chrY	13685999	.	G	A	1262.68	PASS	AC=6;AF=0.091;AN=66;DP=411;FS=0.0
33709	chrY	13686062	.	C	G	38.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33710	chrY	13686083	.	G	A	40.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33711	chrY	13686129	.	G	A	699.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33712	chrY	13686136	.	A	G	613.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33713	chrY	13686138	.	G	A	591.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33714	chrY	13686147	.	G	T	600.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33715	chrY	13686193	.	C	A	742.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33716	chrY	13686383	.	G	C	34.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33717	chrY	13686387	.	T	G	34.33	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33718	chrY	13686578	.	A	G	451.67	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
33719	chrY	13686579	.	C	A	452.58	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
33720	chrY	13686602	.	T	G	376.89	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33721	chrY	13686603	.	T	G	378.61	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
33722	chrY	13686608	.	C	T	176.55	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33723	chrY	13686610	.	A	G	178.55	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
33724	chrY	13686634	.	A	T	127.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33725	chrY	13686653	.	T	G	95.52	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
33726	chrY	13686662	.	G	C	101.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33727	chrY	13686663	.	A	G	176.54	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33728	chrY	13686687	.	G	T	58.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33729	chrY	13686688	.	T	G	63.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33730	chrY	13686695	.	T	A	46.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
33731	chrY	13686698	.	C	G	42.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33732	chrY	13686709	.	C	A	46.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33733	chrY	13686711	.	A	T	45.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33734	chrY	13686963	.	C	G	6662.45	PASS	AC=4;AF=0.500;AN=8;BaseQRankSum=2
33735	chrY	13686971	.	T	G	76.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33736	chrY	13687028	.	G	A	1545.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33737	chrY	13687047	.	T	C	592063.85	PASS	AC=59;AF=0.843;AN=70;BaseQ
33738	chrY	13687050	.	A	G	2532.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
33739	chrY	13687052	.	G	T	543738.52	PASS	AC=57;AF=0.814;AN=70;BaseQ
33740	chrY	13687053	.	G	T	565328.72	PASS	AC=57;AF=0.814;AN=70;BaseQ
33741	chrY	13687106	.	T	C	509060.65	PASS	AC=59;AF=0.843;AN=70;BaseQ
33742	chrY	13687112	.	G	A	505925.69	PASS	AC=59;AF=0.843;AN=70;BaseQ
33743	chrY	13687128	.	A	G	494157.41	PASS	AC=61;AF=0.871;AN=70;BaseQ
33744	chrY	13687139	.	T	A	52835.72	PASS	AC=33;AF=0.471;AN=70;BaseQ

33745	chrY	13687157	.	A	G	483896.61	PASS	AC=61;AF=0.871;AN=70;BaseQ
33746	chrY	13687186	.	T	G	459509.95	PASS	AC=62;AF=0.886;AN=70;BaseQ
33747	chrY	13687197	.	A	C	385370.25	PASS	AC=62;AF=0.886;AN=70;BaseQ
33748	chrY	13687268	.	A	T	449332.33	PASS	AC=59;AF=0.843;AN=70;BaseQ
33749	chrY	13687270	.	G	C	458720.77	PASS	AC=59;AF=0.843;AN=70;BaseQ
33750	chrY	13687279	.	G	T	444537.38	PASS	AC=58;AF=0.829;AN=70;BaseQ
33751	chrY	13687286	.	C	G	84180.56	PASS	AC=34;AF=0.486;AN=70;BaseQ
33752	chrY	13687294	.	A	G	13197.81	my_snp_filter	AC=30;AF=0.429;AN=70;BaseQ
33753	chrY	13687313	.	A	G	51456.89	PASS	AC=34;AF=0.486;AN=70;BaseQ
33754	chrY	13687378	.	A	T	289548.17	PASS	AC=66;AF=0.943;AN=70;BaseQ
33755	chrY	13687415	.	C	T	442900.25	PASS	AC=60;AF=0.857;AN=70;BaseQ
33756	chrY	13687432	.	G	T	508.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
33757	chrY	13687433	.	A	T	445412.83	PASS	AC=55;AF=0.786;AN=70;BaseQ
33758	chrY	13687451	.	C	G	419218.38	PASS	AC=50;AF=0.714;AN=70;BaseQ
33759	chrY	13687465	.	C	T	428359.05	PASS	AC=50;AF=0.714;AN=70;BaseQ
33760	chrY	13687478	.	G	T	423349.33	PASS	AC=51;AF=0.729;AN=70;BaseQ
33761	chrY	13687485	.	G	A	418135.72	PASS	AC=50;AF=0.714;AN=70;BaseQ
33762	chrY	13687497	.	A	G	403896.37	PASS	AC=50;AF=0.714;AN=70;BaseQ
33763	chrY	13687520	.	T	C	85024.86	PASS	AC=35;AF=0.500;AN=70;BaseQ
33764	chrY	13687570	.	A	T	368670.57	PASS	AC=49;AF=0.700;AN=70;BaseQ
33765	chrY	13687591	.	T	C,G	325561.15	PASS	AC=32,31;AF=0.457,0.443;AN=70;BaseQ
33766	chrY	13687601	.	A	G	413637.58	PASS	AC=47;AF=0.671;AN=70;BaseQ
33767	chrY	13687615	.	T	C	408985.45	PASS	AC=48;AF=0.706;AN=68;BaseQ
33768	chrY	13687623	.	A	C	82.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33769	chrY	13687627	.	A	C	380165.39	PASS	AC=44;AF=0.647;AN=68;BaseQ
33770	chrY	13687629	.	T	A	381346.13	PASS	AC=43;AF=0.632;AN=68;BaseQ
33771	chrY	13687655	.	T	G	53.40	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33772	chrY	13687662	.	C	G	412018.06	PASS	AC=46;AF=0.676;AN=68;BaseQ
33773	chrY	13687665	.	A	T	401412.57	PASS	AC=46;AF=0.676;AN=68;BaseQ
33774	chrY	13687667	.	A	G	413374.57	PASS	AC=46;AF=0.676;AN=68;BaseQ
33775	chrY	13687696	.	A	C	284341.19	PASS	AC=37;AF=0.544;AN=68;BaseQ
33776	chrY	13687697	.	T	C	302216.19	PASS	AC=37;AF=0.544;AN=68;BaseQ
33777	chrY	13687740	.	A	T	422969.24	PASS	AC=57;AF=0.814;AN=70;BaseQ
33778	chrY	13687747	.	C	G	447236.36	PASS	AC=57;AF=0.814;AN=70;BaseQ
33779	chrY	13687753	.	A	T	562.07	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33780	chrY	13687761	.	G	T	565.80	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33781	chrY	13687807	.	T	G	419466.79	PASS	AC=67;AF=0.957;AN=70;BaseQ
33782	chrY	13687810	.	A	G	369.08	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33783	chrY	13687826	.	A	G	498407.06	PASS	AC=68;AF=0.971;AN=70;BaseQ
33784	chrY	13687917	.	G	A	39237.41	PASS	AC=31;AF=0.443;AN=70;BaseQ
33785	chrY	13687937	.	G	T	4852.41	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
33786	chrY	13687954	.	A	G	1250.46	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
33787	chrY	13687959	.	G	A,C	45006.19	PASS	AC=1,32;AF=0.014,0.457;AN=70;BaseQ
33788	chrY	13687963	.	A	T	30.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33789	chrY	13687977	.	T	G	359717.45	PASS	AC=54;AF=0.771;AN=70;BaseQ
33790	chrY	13687985	.	T	C	1965.76	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
33791	chrY	13687991	.	G	A	134.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33792	chrY	13687993	.	A	T	1574.27	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
33793	chrY	13687996	.	T	G	279219.47	PASS	AC=44;AF=0.647;AN=68;BaseQ
33794	chrY	13688004	.	C	T	119.22	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33795	chrY	13688006	.	C	T	716.78	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33796	chrY	13688007	.	G	T	1753.22	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
33797	chrY	13688015	.	T	G	90.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33798	chrY	13688027	.	G	T	1322.24	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
33799	chrY	13688030	.	A	T	198511.11	PASS	AC=42;AF=0.618;AN=68;BaseQ
33800	chrY	13688032	.	G	C	15094.54	PASS	AC=28;AF=0.400;AN=70;BaseQ
33801	chrY	13688036	.	G	A	151.50	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33802	chrY	13688039	.	A	G	91384.89	my_snp_filter	AC=33;AF=0.471;AN=70;BaseQ
33803	chrY	13688059	.	A	C	874.64	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33804	chrY	13688065	.	C	A	3541.17	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
33805	chrY	13688070	.	A	T	178907.68	PASS	AC=39;AF=0.609;AN=64;BaseQ
33806	chrY	13688072	.	G	T	5091.34	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
33807	chrY	13688083	.	A	G	4541.54	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
33808	chrY	13688086	.	A	C	178690.81	PASS	AC=38;AF=0.594;AN=64;BaseQ
33809	chrY	13688087	.	G	A	4730.38	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
33810	chrY	13688100	.	T	C	2546.89	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33811	chrY	13688107	.	G	T	506.20	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33812	chrY	13688119	.	A	T	43480.04	PASS	AC=8;AF=0.308;AN=26;BaseQ
33813	chrY	13688140	.	C	T	62349.22	PASS	AC=27;AF=0.563;AN=48;BaseQ
33814	chrY	13688147	.	G	C,A	45815.60	PASS	AC=16,8;AF=0.320,0.160;AN=70;BaseQ
33815	chrY	13688149	.	C	A	33.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33816	chrY	13688150	.	A	T	33.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33817	chrY	13688151	.	C	G	308.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33818	chrY	13688175	.	T	G	1201.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
33819	chrY	13688205	.	T	A	249.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
33820	chrY	13688210	.	T	G	356.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

33821	chrY	13688218	.	A	T	493.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33822	chrY	13688223	.	C	A	8563.18	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
33823	chrY	13688228	.	A	C	1336.74	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
33824	chrY	13688232	.	G	T	1015.42	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
33825	chrY	13688234	.	A	T	188.17	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
33826	chrY	13688243	.	A	C	52.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33827	chrY	13688251	.	G	T	29746.77	PASS	AC=23;AF=0.383;AN=60;BaseQ
33828	chrY	13688265	.	C	T	36777.03	PASS	AC=19;AF=0.432;AN=44;BaseQ
33829	chrY	13688267	.	G	T	7054.53	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum
33830	chrY	13688268	.	A	G,T	29670.02	PASS	AC=18,7;AF=0.409,0.159;AN
33831	chrY	13688325	.	A	C	1670.90	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum
33832	chrY	13688342	.	T	C	726.15	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
33833	chrY	13688351	.	A	G	539.49	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
33834	chrY	13688355	.	A	T	679.55	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum
33835	chrY	13688432	.	C	G	152.11	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum
33836	chrY	13688446	.	A	G	3233.06	PASS	AC=38;AF=0.760;AN=50;DP=244;FS=0.
33837	chrY	13688450	.	A	T	139.43	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum
33838	chrY	13688491	.	G	A	79.49	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
33839	chrY	13688492	.	G	A	301.40	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
33840	chrY	13688497	.	A	G	10443.86	PASS	AC=9;AF=0.136;AN=66;BaseQ
33841	chrY	13688507	.	C	T	11661.29	PASS	AC=9;AF=0.136;AN=66;BaseQ
33842	chrY	13688515	.	T	C	1518.43	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum
33843	chrY	13688517	.	G	A	1497.80	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum
33844	chrY	13688522	.	G	A	585.74	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33845	chrY	13688532	.	C	T	612.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33846	chrY	13688538	.	A	C	1126.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
33847	chrY	13688546	.	A	C	16650.23	PASS	AC=19;AF=0.352;AN=54;BaseQ
33848	chrY	13688556	.	G	T	297.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33849	chrY	13688565	.	A	G	22794.22	PASS	AC=21;AF=0.362;AN=58;BaseQ
33850	chrY	13688567	.	A	G	12983.55	PASS	AC=19;AF=0.328;AN=58;BaseQ
33851	chrY	13688579	.	T	G	312.85	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33852	chrY	13688589	.	G	A	150.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33853	chrY	13688590	.	C	G	370.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33854	chrY	13688595	.	A	G	136.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
33855	chrY	13688625	.	T	C	355.15	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum
33856	chrY	13688640	.	C	A	110.31	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
33857	chrY	13688735	.	G	A	208.70	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
33858	chrY	13688743	.	T	G	26774.11	PASS	AC=30;AF=0.429;AN=70;BaseQ
33859	chrY	13688748	.	G	A	66337.66	PASS	AC=38;AF=0.559;AN=68;BaseQ
33860	chrY	13688749	.	T	A	227.62	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33861	chrY	13688755	.	T	G	944.78	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
33862	chrY	13688774	.	T	A	7365.92	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
33863	chrY	13688780	.	C	A,G	1928.14	my_snp_filter	AC=9,1;AF=0.129,0.014;AN=
33864	chrY	13688788	.	A	T	178.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33865	chrY	13688794	.	T	G	17088.07	PASS	AC=21;AF=0.300;AN=70;BaseQ
33866	chrY	13688801	.	G	C	17020.06	PASS	AC=20;AF=0.286;AN=70;BaseQ
33867	chrY	13688808	.	C	T	189.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33868	chrY	13688809	.	T	C	60.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33869	chrY	13688820	.	G	T	254.88	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33870	chrY	13688821	.	G	T	248.12	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33871	chrY	13688825	.	C	G	90120.17	PASS	AC=36;AF=0.514;AN=70;BaseQ
33872	chrY	13688826	.	A	C	1810.25	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33873	chrY	13688829	.	T	C	1072.99	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
33874	chrY	13688832	.	A	C	97.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33875	chrY	13688835	.	G	T	3541.68	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
33876	chrY	13688836	.	G	T	3574.58	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
33877	chrY	13688840	.	C	G	4124.89	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
33878	chrY	13688844	.	T	A	112.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33879	chrY	13688845	.	G	A	3596.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
33880	chrY	13688851	.	G	C	1285.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
33881	chrY	13688854	.	T	A	511.75	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33882	chrY	13688860	.	G	T	16047.68	PASS	AC=31;AF=0.443;AN=70;BaseQ
33883	chrY	13688864	.	A	T	561.78	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33884	chrY	13688866	.	C	T	51.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33885	chrY	13688867	.	A	C	7831.87	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
33886	chrY	13688876	.	T	A	135.88	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
33887	chrY	13688879	.	T	C	13433.06	PASS	AC=20;AF=0.286;AN=70;BaseQ
33888	chrY	13688881	.	G	T	23445.95	PASS	AC=32;AF=0.457;AN=70;BaseQ
33889	chrY	13688885	.	A	G	13373.76	PASS	AC=21;AF=0.300;AN=70;BaseQ
33890	chrY	13688889	.	T	A	1331.56	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
33891	chrY	13688894	.	C	T	83.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
33892	chrY	13688895	.	G	C	153.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
33893	chrY	13688901	.	G	C	302.92	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33894	chrY	13688909	.	T	C	133.93	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
33895	chrY	13688911	.	G	A	3979.12	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum
33896	chrY	13688915	.	G	A	1350.03	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum

33897	chrY	13688924	.	C	T	32891.59	my_snp_filter	AC=36;AF=0.643;AN=
33898	chrY	13688925	.	G	T	67.72	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
33899	chrY	13688935	.	C	G	152.48	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
33900	chrY	13688948	.	T	A	69.13	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
33901	chrY	13688965	.	T	G	6197.13	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
33902	chrY	13688969	.	T	A	12893.38	my_snp_filter	AC=17;AF=0.354;AN=
33903	chrY	13688976	.	G	T	502.85	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
33904	chrY	13688984	.	T	A	122.34	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
33905	chrY	13688995	.	T	G	124	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
33906	chrY	13689001	.	G	C	39.03	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
33907	chrY	13689019	.	A	T	42.46	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
33908	chrY	13689020	.	C	G	3870.73	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
33909	chrY	13689049	.	A	T	1139.20	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQ
33910	chrY	13689055	.	A	G,*	551.96	PASS	AC=3,2;AF=0.060,0.040;AN=50;BaseQ
33911	chrY	13689068	.	C	A,G	557.90	PASS	AC=1,6;AF=0.019,0.115;AN=52;BaseQ
33912	chrY	13689079	.	T	C	191.04	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
33913	chrY	13689085	.	G	A	182.06	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
33914	chrY	13689095	.	G	A	217.90	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
33915	chrY	13689099	.	T	A	213.79	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
33916	chrY	13689195	.	T	G	34.20	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
33917	chrY	13689210	.	C	G	83.51	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33918	chrY	13689211	.	A	G	84.22	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
33919	chrY	13689214	.	A	T	939.27	PASS	AC=4;AF=0.286;AN=14;BaseQRankSum=
33920	chrY	13689225	.	G	A	117.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33921	chrY	13689266	.	G	C	116719.72	my_snp_filter	AC=35;AF=0.500;AN=
33922	chrY	13689276	.	C	G	270381.51	my_snp_filter	AC=59;AF=0.843;AN=
33923	chrY	13689283	.	A	G	409.73	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33924	chrY	13689288	.	C	A	1296.94	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
33925	chrY	13689320	.	G	C	628.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33926	chrY	13689325	.	C	T	9605.49	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQ
33927	chrY	13689354	.	C	T	92.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33928	chrY	13689355	.	G	A	159.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33929	chrY	13689356	.	G	C	139.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33930	chrY	13689368	.	A	C	101794.53	my_snp_filter	AC=55;AF=0.786;AN=
33931	chrY	13689407	.	T	A	55958.53	PASS	AC=39;AF=0.557;AN=70;BaseQ
33932	chrY	13689409	.	T	A	2966.18	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
33933	chrY	13689411	.	T	G	52922.29	PASS	AC=39;AF=0.557;AN=70;BaseQ
33934	chrY	13689418	.	A	C	4028.23	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
33935	chrY	13689440	.	G	A	2812.64	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
33936	chrY	13689447	.	A	C	16044.02	PASS	AC=33;AF=0.516;AN=64;BaseQ
33937	chrY	13689451	.	G	C	2018.37	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
33938	chrY	13689480	.	C	G	674.63	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
33939	chrY	13689483	.	T	A	1949.63	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
33940	chrY	13689504	.	A	T	196.16	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
33941	chrY	13689509	.	T	C	67.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33942	chrY	13689515	.	C	G	74.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33943	chrY	13689616	.	T	G	268.59	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
33944	chrY	13689634	.	T	C	200.12	PASS	AC=1;AF=0.125;AN=8;BaseQRankSum=-
33945	chrY	13689668	.	C	G	53410.83	PASS	AC=30;AF=0.484;AN=62;BaseQ
33946	chrY	13689676	.	G	C	267.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33947	chrY	13689686	.	G	A	132.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
33948	chrY	13689706	.	A	G	133.83	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33949	chrY	13689715	.	C	G	73.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
33950	chrY	13689740	.	C	G	2109.51	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
33951	chrY	13689745	.	G	A	2386.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
33952	chrY	13689755	.	G	C	505383.36	PASS	AC=64;AF=0.970;AN=66;BaseQ
33953	chrY	13689785	.	C	G	107.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33954	chrY	13689850	.	C	G	1936	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
33955	chrY	13689886	.	G	T	180.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33956	chrY	13689887	.	A	T	192.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
33957	chrY	13689894	.	T	A	59.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33958	chrY	13689901	.	G	A	75.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33959	chrY	13689902	.	A	G	1345.58	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
33960	chrY	13689911	.	G	A	31.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
33961	chrY	13689912	.	A	G	5905.31	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
33962	chrY	13689915	.	G	T	662.83	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
33963	chrY	13689916	.	C	G	321989.18	PASS	AC=58;AF=0.906;AN=64;BaseQ
33964	chrY	13689920	.	G	T	432.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33965	chrY	13689921	.	G	T	388.33	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
33966	chrY	13689934	.	C	T	63727.97	my_snp_filter	AC=19;AF=0.475;AN=
33967	chrY	13689938	.	G	A	169362.06	my_snp_filter	AC=38;AF=0.704;AN=
33968	chrY	13689949	.	G	T	130721.16	my_snp_filter	AC=34;AF=0.607;AN=
33969	chrY	13689956	.	G	C	4212.70	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
33970	chrY	13689969	.	T	A	84183.69	my_snp_filter	AC=28;AF=0.467;AN=
33971	chrY	13690024	.	T	G	42.30	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
33972	chrY	13690026	.	G	A	358.90	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ

33973	chrY	13690045	.	G	C	119797.34	my_snp_filter	AC=36;AF=0.563;AN=
33974	chrY	13690047	.	G	C	954.88	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
33975	chrY	13690064	.	C	G	846.96	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
33976	chrY	13690067	.	A	T	41.57	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
33977	chrY	13690070	.	G	T	234.11	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
33978	chrY	13690079	.	C	G	67.23	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
33979	chrY	13690089	.	G	A	62.30	my_snp_filter	AC=2;AF=0.167;AN=12;DP=10
33980	chrY	13690090	.	G	T	5969.16	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
33981	chrY	13690096	.	A	C	47.01	my_snp_filter	AC=2;AF=0.031;AN=64;DP=94
33982	chrY	13690098	.	T	C	5732.63	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
33983	chrY	13690109	.	C	T	47.42	my_snp_filter	AC=2;AF=0.031;AN=64;DP=92
33984	chrY	13690110	.	A	C	5229.84	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
33985	chrY	13690112	.	A	G	51.91	PASS	AC=2;AF=0.032;AN=62;DP=7157;FS=4.
33986	chrY	13690120	.	G	A	75.56	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
33987	chrY	13690126	.	A	C	47.37	my_snp_filter	AC=2;AF=0.033;AN=60;DP=71
33988	chrY	13690138	.	T	A	1698.17	my_snp_filter	AC=7;AF=0.117;AN=60;BaseQ
33989	chrY	13690154	.	G	C	112776.81	my_snp_filter	AC=23;AF=0.767;AN=
33990	chrY	13690155	.	A	C	856.27	my_snp_filter	AC=6;AF=0.136;AN=44;BaseQ
33991	chrY	13690220	.	T	A	43249.31	my_snp_filter	AC=9;AF=0.500;AN=
33992	chrY	13690284	.	G	T	53.52	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
33993	chrY	13690289	.	G	T	117.53	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
33994	chrY	13690314	.	A	T	6222.78	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
33995	chrY	13690315	.	T	A	18627.68	my_snp_filter	AC=8;AF=0.308;AN=
33996	chrY	13690324	.	A	G	11970.93	PASS	AC=8;AF=0.286;AN=28;BaseQ
33997	chrY	13690348	.	A	T	4615.77	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
33998	chrY	13690376	.	C	T	65.36	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
33999	chrY	13690377	.	G	T	1182.61	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=
34000	chrY	13690397	.	C	G	1279.99	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
34001	chrY	13690420	.	A	T	1917.88	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
34002	chrY	13690424	.	G	A	47.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34003	chrY	13690429	.	G	C	44.55	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34004	chrY	13690439	.	T	C	5113.14	my_snp_filter	AC=21;AF=0.389;AN=54;BaseQ
34005	chrY	13690441	.	A	G	2595.94	my_snp_filter	AC=10;AF=0.208;AN=48;BaseQ
34006	chrY	13690462	.	T	A	471.67	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
34007	chrY	13690464	.	G	C	76.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34008	chrY	13690480	.	A	T	88.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34009	chrY	13690497	.	T	C	45.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34010	chrY	13690515	.	G	A	78538	PASS	AC=43;AF=0.614;AN=70;BaseQRankSum=
34011	chrY	13690517	.	T	C	728.05	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
34012	chrY	13690526	.	G	C	13209.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
34013	chrY	13690562	.	C	T	124061.48	PASS	AC=48;AF=0.686;AN=70;BaseQ
34014	chrY	13690564	.	G	T	135.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34015	chrY	13690567	.	T	C	126.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34016	chrY	13690569	.	T	G	7278.87	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
34017	chrY	13690571	.	A	G	51492.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
34018	chrY	13690579	.	G	A	1454.14	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34019	chrY	13690581	.	A	C	66834.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
34020	chrY	13690588	.	G	A	339.70	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34021	chrY	13690596	.	C	G	11007.84	PASS	AC=28;AF=0.400;AN=70;BaseQ
34022	chrY	13690599	.	G	A	38506.05	PASS	AC=14;AF=0.206;AN=68;BaseQ
34023	chrY	13690600	.	A	C	402.54	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34024	chrY	13690613	.	G	C	34835.82	PASS	AC=13;AF=0.197;AN=66;BaseQ
34025	chrY	13690644	.	A	C	19194.67	PASS	AC=12;AF=0.194;AN=62;BaseQ
34026	chrY	13690653	.	T	G	145.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
34027	chrY	13690670	.	T	A	13847.38	PASS	AC=25;AF=0.463;AN=54;BaseQ
34028	chrY	13690673	.	G	A	7892.43	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
34029	chrY	13690676	.	T	A	8005.49	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
34030	chrY	13690678	.	G	A	6228.13	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
34031	chrY	13690681	.	A	T	7728.26	PASS	AC=15;AF=0.375;AN=40;BaseQRankSum=
34032	chrY	13690684	.	T	A	6814.10	PASS	AC=11;AF=0.262;AN=42;BaseQRankSum=
34033	chrY	13690691	.	T	A	5460.79	my_snp_filter	AC=8;AF=0.174;AN=46;BaseQ
34034	chrY	13690692	.	T	G	5375.52	my_snp_filter	AC=8;AF=0.174;AN=46;BaseQ
34035	chrY	13690693	.	G	A	5454.04	my_snp_filter	AC=8;AF=0.174;AN=46;BaseQ
34036	chrY	13690696	.	T	A	4804.27	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
34037	chrY	13690724	.	A	T	3894.72	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
34038	chrY	13690728	.	A	G	4556.58	my_snp_filter	AC=10;AF=0.238;AN=42;BaseQ
34039	chrY	13690735	.	A	C	100.63	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
34040	chrY	13690745	.	C	G	65.34	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
34041	chrY	13690756	.	C	G	45.70	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
34042	chrY	13690764	.	A	C	78.56	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
34043	chrY	13690767	.	G	T	80.98	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
34044	chrY	13690807	.	T	G	33.94	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
34045	chrY	13690848	.	C	G	9100.25	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
34046	chrY	13690850	.	A	T	70.60	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
34047	chrY	13690859	.	A	C	7620.51	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
34048	chrY	13690867	.	G	A	60.55	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=

34049	chrY	13690868	.	C	A	183.79	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
34050	chrY	13690973	.	T	C	72.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34051	chrY	13690986	.	A	T	4816.56	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
34052	chrY	13691001	.	C	T	4306.52	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
34053	chrY	13691024	.	A	C	185.04	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34054	chrY	13691040	.	A	T	904.65	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
34055	chrY	13691042	.	T	G	890.89	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
34056	chrY	13691129	.	C	A	206.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
34057	chrY	13691179	.	G	A	5011.80	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
34058	chrY	13691182	.	A	C	17068.09	PASS	AC=42;AF=0.618;AN=68;Base
34059	chrY	13691193	.	C	G	922.80	my_snp_filter	AC=10;AF=0.143;AN=70;Base
34060	chrY	13691197	.	C	T	5734.49	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
34061	chrY	13691202	.	C	G	914.06	my_snp_filter	AC=10;AF=0.143;AN=70;Base
34062	chrY	13691217	.	T	G	734.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34063	chrY	13691232	.	C	G	7562.63	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
34064	chrY	13691234	.	C	G	7565.63	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
34065	chrY	13691249	.	G	A	555.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
34066	chrY	13691266	.	A	T	1028.49	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
34067	chrY	13691281	.	A	G	33.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34068	chrY	13691289	.	G	T	617.72	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum
34069	chrY	13691291	.	A	T	615	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum
34070	chrY	13691297	.	T	A,*	1810.33	PASS	AC=17,1;AF=0.266,0.016;AN=64;Base
34071	chrY	13691309	.	A	T	1749.29	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum
34072	chrY	13691324	.	G	A	347.77	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
34073	chrY	13691352	.	C	G	410.44	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
34074	chrY	13691368	.	G	A	255.25	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
34075	chrY	13691411	.	G	T	69.13	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
34076	chrY	13691419	.	T	G	158.07	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
34077	chrY	13691423	.	T	G	79.85	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
34078	chrY	13691432	.	T	A	36.67	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
34079	chrY	13691522	.	C	T	58.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
34080	chrY	13691591	.	C	G	67.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34081	chrY	13691614	.	A	T	70.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34082	chrY	13691626	.	C	T	108.73	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
34083	chrY	13691628	.	A	G	64.84	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
34084	chrY	13691632	.	A	T	108.98	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
34085	chrY	13691667	.	A	G	565.44	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
34086	chrY	13691686	.	T	C	478.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
34087	chrY	13691696	.	A	C	448.18	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
34088	chrY	13691712	.	A	T	566.54	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34089	chrY	13691730	.	C	G	13150.22	my_snp_filter	AC=16;AF=0.235;AN
34090	chrY	13691737	.	G	T	31.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34091	chrY	13691839	.	A	G	9567.27	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum=
34092	chrY	13691860	.	C	T,A	31706.50	PASS	AC=10,9;AF=0.294,0.265;AN
34093	chrY	13691870	.	A	G	260.61	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
34094	chrY	13691874	.	A	G	10431.60	PASS	AC=9;AF=0.214;AN=42;BaseQ
34095	chrY	13691899	.	A	G	34.61	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
34096	chrY	13691905	.	C	G	451.40	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
34097	chrY	13691929	.	A	G	195.02	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
34098	chrY	13691951	.	G	A	1423.21	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
34099	chrY	13691962	.	G	A	65.34	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
34100	chrY	13691965	.	G	T	46738.73	PASS	AC=11;AF=0.500;AN=22;Base
34101	chrY	13691971	.	G	A,T	47683.38	PASS	AC=11,2;AF=0.458,0.083;AN
34102	chrY	13691975	.	A	T	57582.30	PASS	AC=10;AF=0.455;AN=22;Base
34103	chrY	13691991	.	C	T	13598.16	PASS	AC=9;AF=0.167;AN=54;BaseQ
34104	chrY	13691995	.	T	C	23510.31	PASS	AC=10;AF=0.172;AN=58;Base
34105	chrY	13692011	.	G	A	24249.28	PASS	AC=10;AF=0.156;AN=64;Base
34106	chrY	13692017	.	G	A	164.88	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
34107	chrY	13692030	.	T	C	31.68	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
34108	chrY	13692047	.	T	A	32.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
34109	chrY	13692057	.	G	C	86.09	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
34110	chrY	13692066	.	A	G	89.24	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
34111	chrY	13692074	.	A	G	19372.10	PASS	AC=13;AF=0.224;AN=58;Base
34112	chrY	13692080	.	C	A	21470.11	PASS	AC=11;AF=0.172;AN=64;Base
34113	chrY	13692089	.	A	G	20975.05	PASS	AC=10;AF=0.147;AN=68;Base
34114	chrY	13692112	.	A	T	16713.51	PASS	AC=10;AF=0.147;AN=68;Base
34115	chrY	13692147	.	G	A	214.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34116	chrY	13692151	.	T	G	320.01	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
34117	chrY	13692164	.	G	A	7943.43	my_snp_filter	AC=17;AF=0.274;AN=62;Base
34118	chrY	13692167	.	G	T	789.73	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34119	chrY	13692175	.	T	C	709.82	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
34120	chrY	13692185	.	G	C	4461.40	my_snp_filter	AC=12;AF=0.182;AN=66;Base
34121	chrY	13692194	.	A	T	75.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34122	chrY	13692205	.	T	A	191.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
34123	chrY	13692223	.	A	C	1475.73	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
34124	chrY	13692231	.	T	C	5580.01	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum

34125	chrY	13692255	.	C	G	2577.80	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
34126	chrY	13692257	.	G	T	1126.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34127	chrY	13692261	.	C	G	373.37	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34128	chrY	13692275	.	T	G	399.73	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34129	chrY	13692279	.	A	G	179.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34130	chrY	13692281	.	A	G,T	10317.95	PASS	AC=31,2;AF=0.456,0.029;AN
34131	chrY	13692291	.	C	T	950.29	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
34132	chrY	13692320	.	T	A	638.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34133	chrY	13692321	.	C	A	623.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34134	chrY	13692324	.	G	A	34159.72	PASS	AC=35;AF=0.500;AN=70;Base
34135	chrY	13692331	.	G	A	1121.14	my_snp_filter	AC=14;AF=0.200;AN=70;Base
34136	chrY	13692335	.	T	C	8601.09	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
34137	chrY	13692343	.	A	G	8095.63	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
34138	chrY	13692361	.	T	A	1940.84	my_snp_filter	AC=16;AF=0.229;AN=70;Base
34139	chrY	13692365	.	G	A	193.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34140	chrY	13692389	.	T	A	2790.05	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
34141	chrY	13692390	.	C	G	11807.50	PASS	AC=28;AF=0.412;AN=68;Base
34142	chrY	13692420	.	A	G	1503.06	my_snp_filter	AC=10;AF=0.156;AN=64;Base
34143	chrY	13692440	.	G	C	1710.49	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
34144	chrY	13692455	.	G	C	1569.92	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
34145	chrY	13692466	.	G	C	586.19	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
34146	chrY	13692467	.	A	C	946.56	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
34147	chrY	13692470	.	G	T	48.88	my_snp_filter	AC=2;AF=0.036;AN=56;DP=38
34148	chrY	13692486	.	A	G	113.13	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
34149	chrY	13692492	.	T	A	685.18	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
34150	chrY	13692512	.	A	T,C	614.72	PASS	AC=4,1;AF=0.143,0.036;AN=28;BaseQ
34151	chrY	13692518	.	A	T	1569.45	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
34152	chrY	13692543	.	T	G	298.57	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
34153	chrY	13692558	.	A	T	774.15	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
34154	chrY	13692573	.	C	T	310.75	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
34155	chrY	13692590	.	G	A	248.67	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
34156	chrY	13692602	.	A	C	52.89	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
34157	chrY	13692613	.	C	T	661.73	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
34158	chrY	13692628	.	G	C	601.02	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
34159	chrY	13692638	.	T	A	421.81	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
34160	chrY	13692659	.	A	G	387.82	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
34161	chrY	13692668	.	A	T	1747.92	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQ
34162	chrY	13692703	.	T	C	220.07	my_snp_filter	AC=8;AF=0.160;AN=50;BaseQ
34163	chrY	13692748	.	T	A	3297.04	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
34164	chrY	13692751	.	C	A	6855.24	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
34165	chrY	13692767	.	A	G	2062.52	my_snp_filter	AC=7;AF=0.175;AN=40;BaseQ
34166	chrY	13692783	.	A	G	13644.80	my_snp_filter	AC=13;AF=0.542;AN
34167	chrY	13692795	.	G	T	3155.30	my_snp_filter	AC=11;AF=0.289;AN=38;Base
34168	chrY	13692824	.	G	A	15759.06	my_snp_filter	AC=15;AF=0.288;AN
34169	chrY	13692828	.	C	T	5858.93	my_snp_filter	AC=13;AF=0.210;AN=62;Base
34170	chrY	13692834	.	T	G	47.23	PASS	AC=2;AF=0.030;AN=66;DP=1426;FS=0.
34171	chrY	13692848	.	A	T	47.50	PASS	AC=2;AF=0.030;AN=66;DP=1449;FS=0.
34172	chrY	13692852	.	A	G	46.61	PASS	AC=2;AF=0.029;AN=68;DP=1457;FS=0.
34173	chrY	13692861	.	A	C	526.23	my_snp_filter	AC=11;AF=0.172;AN=64;Base
34174	chrY	13692863	.	T	C	244.41	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
34175	chrY	13692875	.	G	C	479.58	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
34176	chrY	13692893	.	T	A	5271.65	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
34177	chrY	13692894	.	G	T	71.18	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
34178	chrY	13692904	.	C	A	137.01	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
34179	chrY	13692913	.	T	C	15397.64	PASS	AC=14;AF=0.538;AN=26;Base
34180	chrY	13692918	.	A	T	430.87	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
34181	chrY	13692920	.	T	G	13144.45	PASS	AC=9;AF=0.409;AN=22;BaseQ
34182	chrY	13692923	.	A	T	12634.21	PASS	AC=8;AF=0.400;AN=20;BaseQ
34183	chrY	13692931	.	A	C	643.60	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
34184	chrY	13692934	.	C	T	288.93	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
34185	chrY	13692941	.	A	T	3154.21	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
34186	chrY	13692950	.	G	A	841.47	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
34187	chrY	13692953	.	A	T	10512.28	my_snp_filter	AC=9;AF=0.409;AN=
34188	chrY	13692956	.	A	T	3263.62	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
34189	chrY	13692959	.	G	A	556.98	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
34190	chrY	13692984	.	A	G	4668.96	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
34191	chrY	13693005	.	G	A	2260.07	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
34192	chrY	13693017	.	G	C	754.04	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
34193	chrY	13693024	.	A	G	101.27	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
34194	chrY	13693067	.	A	G	105.87	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
34195	chrY	13693068	.	T	A	175.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34196	chrY	13693075	.	C	G	2951.88	my_snp_filter	AC=3;AF=0.500;AN=6;BaseQR
34197	chrY	13693097	.	G	A	7968.88	my_snp_filter	AC=3;AF=0.500;AN=6;BaseQR
34198	chrY	13693112	.	A	T	2891.70	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34199	chrY	13693134	.	A	G,*	16079.59	PASS	AC=17,7;AF=0.243,0.100;AN
34200	chrY	13693148	.	A	T	65031.72	PASS	AC=35;AF=0.500;AN=70;Base

34201	chrY	13693164	.	C	G	447.70	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34202	chrY	13693201	.	A	C	185362.72	PASS	AC=35;AF=0.500;AN=70;Base
34203	chrY	13693205	.	A	G	190640.72	PASS	AC=35;AF=0.500;AN=70;Base
34204	chrY	13693223	.	T	A	3508.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
34205	chrY	13693257	.	G	A	71899.20	PASS	AC=25;AF=0.521;AN=48;Base
34206	chrY	13693267	.	C	G	8446.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
34207	chrY	13693279	.	G	A	758.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34208	chrY	13693284	.	C	G,*	12848.45	PASS	AC=14,1;AF=0.350,0.025;AN
34209	chrY	13693292	.	A	G	5828.66	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
34210	chrY	13693295	.	C	G,*	8604.60	PASS	AC=9,2;AF=0.150,0.033;AN=60;BaseQ
34211	chrY	13693297	.	G	C,*	988.16	PASS	AC=1,2;AF=0.016,0.032;AN=62;BaseQ
34212	chrY	13693301	.	A	C	6165.20	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34213	chrY	13693308	.	C	T	5885.70	my_snp_filter	AC=10;AF=0.179;AN=56;Base
34214	chrY	13693327	.	A	C	202.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34215	chrY	13693330	.	C	G,*	5105.94	PASS	AC=10,1;AF=0.200,0.020;AN=50;Base
34216	chrY	13693365	.	C	G	5507.17	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
34217	chrY	13693424	.	G	A,*	421.76	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
34218	chrY	13693427	.	A	T	56304.63	my_snp_filter	AC=28;AF=0.467;AN
34219	chrY	13693434	.	C	G	64320.04	PASS	AC=29;AF=0.500;AN=58;Base
34220	chrY	13693444	.	G	T	3590.82	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
34221	chrY	13693461	.	A	G	2459.73	my_snp_filter	AC=10;AF=0.143;AN=70;Base
34222	chrY	13693466	.	G	C,A	7964.62	PASS	AC=16,1;AF=0.229,0.014;AN=70;Base
34223	chrY	13693492	.	T	C	2304.54	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
34224	chrY	13693498	.	G	A	4879.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34225	chrY	13693500	.	A	T	2591.83	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
34226	chrY	13693511	.	C	T	4907.48	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34227	chrY	13693513	.	C	T	9467.34	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
34228	chrY	13693514	.	G	T	17952.14	PASS	AC=21;AF=0.300;AN=70;Base
34229	chrY	13693522	.	T	G	996.46	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34230	chrY	13693539	.	G	C	2577.56	my_snp_filter	AC=19;AF=0.271;AN=70;Base
34231	chrY	13693543	.	G	A	1461.40	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34232	chrY	13693545	.	T	A	212875.04	my_snp_filter	AC=51;AF=0.729;AN
34233	chrY	13693546	.	A	G	80585.72	my_snp_filter	AC=35;AF=0.500;AN
34234	chrY	13693566	.	A	C	113.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34235	chrY	13693572	.	C	A	121.47	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34236	chrY	13693579	.	G	T	300.63	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34237	chrY	13693590	.	A	G	269.16	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34238	chrY	13693594	.	G	A	224.38	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34239	chrY	13693607	.	T	C	2098.21	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
34240	chrY	13693609	.	G	A	695.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34241	chrY	13693614	.	T	G	25377.77	PASS	AC=18;AF=0.360;AN=50;Base
34242	chrY	13693626	.	A	G,T	6897.23	PASS	AC=2,4;AF=0.200,0.400;AN=10;BaseQ
34243	chrY	13693628	.	G	A	84.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34244	chrY	13693629	.	G	C	84.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34245	chrY	13693639	.	C	T	69.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34246	chrY	13693644	.	A	G	2970.45	PASS	AC=4;AF=0.500;AN=8;BaseQRankSum=0
34247	chrY	13693654	.	G	A	679.28	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
34248	chrY	13693658	.	C	G	107.65	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
34249	chrY	13693663	.	C	G	756.75	PASS	AC=3;AF=0.214;AN=14;BaseQRankSum=
34250	chrY	13693683	.	A	G	170.63	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
34251	chrY	13693686	.	C	A	131.08	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
34252	chrY	13693745	.	C	T	126.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34253	chrY	13693758	.	G	T	43.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34254	chrY	13693812	.	T	C	20596.90	PASS	AC=70;AF=1.00;AN=70;BaseQ
34255	chrY	13693987	.	A	G	187.46	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
34256	chrY	13693993	.	A	C	101.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
34257	chrY	13694001	.	T	C	161.50	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
34258	chrY	13694010	.	A	C	51.24	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34259	chrY	13694032	.	G	A	131.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34260	chrY	13694033	.	G	A	123.23	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34261	chrY	13694043	.	G	C	3764.40	my_snp_filter	AC=31;AF=0.443;AN=70;Base
34262	chrY	13694056	.	T	C	10948.02	my_snp_filter	AC=35;AF=0.500;AN
34263	chrY	13694058	.	G	A	6413.85	my_snp_filter	AC=31;AF=0.443;AN=70;Base
34264	chrY	13694073	.	C	T	116.82	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34265	chrY	13694079	.	A	C	6230.85	my_snp_filter	AC=30;AF=0.429;AN=70;Base
34266	chrY	13694088	.	G	A	135.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34267	chrY	13694108	.	A	G	30817.72	my_snp_filter	AC=35;AF=0.500;AN
34268	chrY	13694116	.	G	C	94820.26	my_snp_filter	AC=39;AF=0.557;AN
34269	chrY	13694120	.	T	G	722.37	my_snp_filter	AC=10;AF=0.143;AN=70;Base
34270	chrY	13694136	.	A	G	54.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34271	chrY	13694139	.	T	A	97072.22	my_snp_filter	AC=37;AF=0.529;AN
34272	chrY	13694144	.	C	G	114.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34273	chrY	13694158	.	T	C	922.77	my_snp_filter	AC=10;AF=0.143;AN=70;Base
34274	chrY	13694159	.	G	C	95077.88	my_snp_filter	AC=36;AF=0.514;AN
34275	chrY	13694172	.	T	C	75.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34276	chrY	13694178	.	A	G	57.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

34277	chrY	13694195	.	T	A,C	6369.54	PASS	AC=16,11;AF=0.229,0.157;AN=70;BaseQRankSum=
34278	chrY	13694199	.	T	A	26586.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
34279	chrY	13694211	.	T	A	2783.48	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
34280	chrY	13694222	.	G	A	1063.74	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
34281	chrY	13694237	.	G	C	2832.66	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
34282	chrY	13694270	.	A	G	6756.77	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum=
34283	chrY	13694274	.	C	A	13109.04	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
34284	chrY	13694294	.	T	G	3534.82	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
34285	chrY	13694306	.	T	G	5787.53	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
34286	chrY	13694339	.	A	T	313.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34287	chrY	13694341	.	T	G	315	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34288	chrY	13694374	.	T	C,*	7478.58	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQRankSum=
34289	chrY	13694376	.	T	C,*	7469.89	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQRankSum=
34290	chrY	13694462	.	G	A,*	5441.17	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQRankSum=
34291	chrY	13694465	.	A	T,*	7565.67	PASS	AC=17,2;AF=0.293,0.034;AN=58;BaseQRankSum=
34292	chrY	13694487	.	G	A	11420.72	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
34293	chrY	13694499	.	T	A	1673.24	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
34294	chrY	13694516	.	T	G,A	19418.73	PASS	AC=32,2;AF=0.457,0.029;AN=70;BaseQRankSum=
34295	chrY	13694527	.	G	T	541.63	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
34296	chrY	13694535	.	T	A	1749.93	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
34297	chrY	13694556	.	C	T	51.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34298	chrY	13694570	.	A	T	33518.68	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
34299	chrY	13694583	.	A	C	21765.71	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
34300	chrY	13694586	.	T	G	125.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34301	chrY	13694590	.	C	T	77578.99	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
34302	chrY	13694595	.	T	C	1696.36	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
34303	chrY	13694607	.	G	A	10839.56	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
34304	chrY	13694619	.	C	G,A	47514.36	PASS	AC=32,18;AF=0.457,0.257;AN=70;BaseQRankSum=
34305	chrY	13694627	.	G	T	529.58	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34306	chrY	13694652	.	G	A	134.14	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
34307	chrY	13694667	.	T	G	1010.12	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQRankSum=
34308	chrY	13694670	.	A	C	27716.41	PASS	AC=20;AF=0.333;AN=60;BaseQRankSum=
34309	chrY	13694673	.	A	C	28445.77	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum=
34310	chrY	13694687	.	G	A	29498.19	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
34311	chrY	13694690	.	T	A	1312.44	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
34312	chrY	13694700	.	T	A	2894.65	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQRankSum=
34313	chrY	13694705	.	T	A	662.05	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
34314	chrY	13694707	.	C	G	45485.64	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
34315	chrY	13694715	.	T	A,*	17294.25	PASS	AC=5,10;AF=0.071,0.143;AN=70;BaseQRankSum=
34316	chrY	13694727	.	A	C	102872.77	my_snp_filter	AC=29;AF=0.537;AN=70;BaseQRankSum=
34317	chrY	13694750	.	C	T	155878.08	my_snp_filter	AC=39;AF=0.609;AN=70;BaseQRankSum=
34318	chrY	13694751	.	C	G	1537.11	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQRankSum=
34319	chrY	13694812	.	A	G	599890.72	my_snp_filter	AC=57;AF=0.814;AN=70;BaseQRankSum=
34320	chrY	13694815	.	G	T	598358.53	my_snp_filter	AC=57;AF=0.814;AN=70;BaseQRankSum=
34321	chrY	13694817	.	G	C	283554.73	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQRankSum=
34322	chrY	13694834	.	A	G	165.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34323	chrY	13694839	.	C	A	222.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34324	chrY	13694857	.	C	G	57.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34325	chrY	13694871	.	G	C	467.26	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQRankSum=
34326	chrY	13694876	.	C	T	7319.99	my_snp_filter	AC=22;AF=0.324;AN=68;BaseQRankSum=
34327	chrY	13694899	.	G	A	327400.68	my_snp_filter	AC=54;AF=0.771;AN=70;BaseQRankSum=
34328	chrY	13694919	.	A	C	318831.20	my_snp_filter	AC=50;AF=0.714;AN=70;BaseQRankSum=
34329	chrY	13694929	.	G	A	393703.97	PASS	AC=58;AF=0.829;AN=70;BaseQRankSum=
34330	chrY	13694935	.	T	C	119.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34331	chrY	13694960	.	T	A	776.13	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
34332	chrY	13694969	.	C	A	28505.61	my_snp_filter	AC=26;AF=0.371;AN=70;BaseQRankSum=
34333	chrY	13694983	.	T	A	746764.87	PASS	AC=70;AF=1.00;AN=70;BaseQRankSum=
34334	chrY	13694991	.	G	A	1289.75	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
34335	chrY	13694997	.	G	T	110.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
34336	chrY	13695001	.	C	G	38.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34337	chrY	13695002	.	G	C	12720.71	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
34338	chrY	13695026	.	G	T	126.52	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
34339	chrY	13695031	.	C	G	29797.70	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQRankSum=
34340	chrY	13695045	.	T	G	43.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
34341	chrY	13695046	.	A	C	7672.23	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQRankSum=
34342	chrY	13695051	.	T	G,A	677441.58	PASS	AC=36,7;AF=0.514,0.100;AN=70;BaseQRankSum=
34343	chrY	13695061	.	C	A	5657.70	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
34344	chrY	13695106	.	G	A	70.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
34345	chrY	13695124	.	G	A	1328.05	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
34346	chrY	13695169	.	A	T	620.46	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
34347	chrY	13695177	.	A	G	446.20	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
34348	chrY	13695179	.	A	G	317.37	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
34349	chrY	13695180	.	G	T	213.37	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
34350	chrY	13695185	.	C	A	60.70	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
34351	chrY	13695204	.	G	C,T	25596.82	PASS	AC=18,2;AF=0.310,0.034;AN=58;BaseQRankSum=
34352	chrY	13695208	.	T	A	25369.04	PASS	AC=20;AF=0.345;AN=58;BaseQRankSum=

34353	chrY	13695219	.	C	G	20064.55	PASS	AC=19;AF=0.317;AN=60;BaseQ=10
34354	chrY	13695230	.	T	A	2809.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=10
34355	chrY	13695235	.	G	T,*	17842.13	PASS	AC=7,9;AF=0.113,0.145;AN=100
34356	chrY	13695237	.	G	C,*	17530.34	PASS	AC=4,9;AF=0.063,0.141;AN=100
34357	chrY	13695246	.	T	G,*	17449.37	PASS	AC=3,9;AF=0.047,0.141;AN=100
34358	chrY	13695264	.	T	C	39755.66	my_snp_filter	AC=11;AF=0.172;AN=100
34359	chrY	13695281	.	C	G	41.08	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ=10
34360	chrY	13695298	.	G	A	67756.49	my_snp_filter	AC=12;AF=0.194;AN=100
34361	chrY	13695310	.	A	T	75229.01	my_snp_filter	AC=12;AF=0.194;AN=100
34362	chrY	13695338	.	T	C	77719.45	my_snp_filter	AC=9;AF=0.145;AN=100
34363	chrY	13695342	.	A	G	70452.61	my_snp_filter	AC=12;AF=0.188;AN=100
34364	chrY	13695350	.	A	T	90761.23	PASS	AC=28;AF=0.424;AN=66;BaseQ=10
34365	chrY	13695421	.	C	G	109.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=10
34366	chrY	13695469	.	G	C	102636.88	my_snp_filter	AC=47;AF=0.691;AN=100
34367	chrY	13695471	.	G	C	101963.54	my_snp_filter	AC=47;AF=0.691;AN=100
34368	chrY	13695473	.	A	G	65.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=10
34369	chrY	13695483	.	A	G	627.74	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ=10
34370	chrY	13695491	.	G	T	30.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ=10
34371	chrY	13695527	.	G	C	7149.50	my_snp_filter	AC=23;AF=0.338;AN=68;BaseQ=10
34372	chrY	13695540	.	T	A	19984.20	my_snp_filter	AC=18;AF=0.391;AN=100
34373	chrY	13695549	.	T	C	75.99	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ=10
34374	chrY	13695553	.	C	A	19975.54	my_snp_filter	AC=21;AF=0.525;AN=100
34375	chrY	13695562	.	T	A	11354.52	my_snp_filter	AC=12;AF=0.353;AN=100
34376	chrY	13695616	.	G	C	1628.72	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ=10
34377	chrY	13695650	.	T	C	209.60	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=10
34378	chrY	13695656	.	G	C	41.30	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ=10
34379	chrY	13695669	.	T	C	42.72	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=10
34380	chrY	13695674	.	A	T	59.55	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=10
34381	chrY	13695709	.	T	A	193.06	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ=10
34382	chrY	13695715	.	T	C	12907.49	my_snp_filter	AC=9;AF=0.409;AN=100
34383	chrY	13695726	.	A	C	212.90	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ=10
34384	chrY	13695791	.	T	A	13123.85	my_snp_filter	AC=9;AF=0.375;AN=100
34385	chrY	13695861	.	A	G	385.30	my_snp_filter	AC=7;AF=0.269;AN=26;BaseQ=10
34386	chrY	13695972	.	G	A	1213.10	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=10
34387	chrY	13696029	.	C	T	389.51	PASS	AC=2;AF=0.045;AN=44;DP=193;FS=0.0
34388	chrY	13696121	.	A	C	1267.44	my_snp_filter	AC=24;AF=0.571;AN=42;DP=1
34389	chrY	13696442	.	T	A	347.56	my_snp_filter	AC=11;AF=0.306;AN=36;BaseQ=10
34390	chrY	13696552	.	A	T	31.27	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ=10
34391	chrY	13696608	.	T	G	92.78	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=10
34392	chrY	13696618	.	A	G	205.92	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=10
34393	chrY	13696622	.	T	A	159.06	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=10
34394	chrY	13696627	.	T	A	339.89	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=10
34395	chrY	13696629	.	A	G	968.23	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=10
34396	chrY	13696640	.	A	C	457.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=10
34397	chrY	13696647	.	A	T	1861.64	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=10
34398	chrY	13696655	.	T	C,A	9057.31	my_snp_filter	AC=21,3;AF=0.404,0.058;AN=100
34399	chrY	13696657	.	C	T	1603.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ=10
34400	chrY	13696666	.	A	T	95.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ=10
34401	chrY	13696674	.	T	C	56.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=10
34402	chrY	13696677	.	T	G	53.84	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ=10
34403	chrY	13696703	.	G	T	1226.40	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ=10
34404	chrY	13696725	.	A	C	59.72	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=10
34405	chrY	13696739	.	G	T	3742.32	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ=10
34406	chrY	13696745	.	G	A	6794.05	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ=10
34407	chrY	13696755	.	G	T	43.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ=10
34408	chrY	13696759	.	C	G	10941.43	my_snp_filter	AC=28;AF=0.400;AN=100
34409	chrY	13696763	.	C	T	12292.94	my_snp_filter	AC=11;AF=0.190;AN=100
34410	chrY	13696768	.	C	G	568.52	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ=10
34411	chrY	13696798	.	C	G	881.23	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=10
34412	chrY	13696799	.	T	G	2063.84	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=10
34413	chrY	13696812	.	C	T	338.98	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ=10
34414	chrY	13696898	.	T	A	1871.82	my_snp_filter	AC=13;AF=0.232;AN=56;BaseQ=10
34415	chrY	13696920	.	G	C	3020.28	my_snp_filter	AC=10;AF=0.208;AN=48;BaseQ=10
34416	chrY	13696928	.	C	G	1328.28	my_snp_filter	AC=12;AF=0.261;AN=46;BaseQ=10
34417	chrY	13696944	.	G	A	162.96	my_snp_filter	AC=4;AF=0.087;AN=46;BaseQ=10
34418	chrY	13696949	.	T	G	962.89	my_snp_filter	AC=7;AF=0.140;AN=50;BaseQ=10
34419	chrY	13696950	.	C	G	948.75	my_snp_filter	AC=7;AF=0.146;AN=48;BaseQ=10
34420	chrY	13696960	.	G	C	1939.79	my_snp_filter	AC=8;AF=0.190;AN=42;BaseQ=10
34421	chrY	13696961	.	A	G	162.91	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ=10
34422	chrY	13697008	.	T	A	4548.99	my_snp_filter	AC=9;AF=0.409;AN=22;BaseQ=10
34423	chrY	13697048	.	T	A	66.77	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ=10
34424	chrY	13697069	.	G	A	744.43	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ=10
34425	chrY	13697074	.	T	G	9204.83	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ=10
34426	chrY	13697143	.	T	C	36.95	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ=10
34427	chrY	13697149	.	A	G	4136.66	my_snp_filter	AC=9;AF=0.300;AN=30;BaseQ=10
34428	chrY	13697154	.	C	G,*	749.19	my_snp_filter	AC=4,1;AF=0.125,0.031;AN=100

34429	chrY	13697182	.	C	G	3206.91	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
34430	chrY	13697205	.	A	T	1791.71	my_snp_filter	AC=6;AF=0.176;AN=34;BaseQ
34431	chrY	13697214	.	T	G	5675.83	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
34432	chrY	13697222	.	C	T	2551.33	my_snp_filter	AC=6;AF=0.167;AN=36;BaseQ
34433	chrY	13697223	.	A	T	2482.82	my_snp_filter	AC=6;AF=0.167;AN=36;BaseQ
34434	chrY	13697242	.	A	T	356.73	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
34435	chrY	13697248	.	T	C	5450.11	my_snp_filter	AC=9;AF=0.265;AN=34;BaseQ
34436	chrY	13697273	.	C	A	1902.15	my_snp_filter	AC=8;AF=0.211;AN=38;BaseQ
34437	chrY	13697283	.	G	T	272.23	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQ
34438	chrY	13697285	.	T	A	4747.43	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
34439	chrY	13697328	.	G	C	64.58	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
34440	chrY	13697329	.	A	C	526.29	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34441	chrY	13697359	.	C	G	4147.88	my_snp_filter	AC=6;AF=0.176;AN=34;BaseQ
34442	chrY	13697376	.	G	A	1056.15	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
34443	chrY	13697453	.	C	G	177.51	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
34444	chrY	13697755	.	A	T	439.83	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34445	chrY	13698217	.	G	A	304.56	my_snp_filter	AC=10;AF=0.313;AN=32;DP=2
34446	chrY	13698659	.	G	A	125.20	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
34447	chrY	13698671	.	A	T	128.34	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
34448	chrY	13698707	.	A	G	132.73	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
34449	chrY	13698710	.	A	G	79.85	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
34450	chrY	13698713	.	T	G	129.73	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
34451	chrY	13698764	.	A	T	108.83	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34452	chrY	13698777	.	G	T	249.04	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34453	chrY	13698783	.	G	A	83.63	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34454	chrY	13698785	.	A	T	854.10	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
34455	chrY	13698811	.	T	A	123.34	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34456	chrY	13698826	.	T	A	111.05	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34457	chrY	13698830	.	G	C	2055.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
34458	chrY	13698832	.	G	C	2055.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
34459	chrY	13698844	.	A	G	217.58	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
34460	chrY	13698901	.	T	A	537.26	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34461	chrY	13698914	.	C	A	461.77	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34462	chrY	13698923	.	T	A	306.08	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
34463	chrY	13698935	.	T	C	40.01	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
34464	chrY	13698960	.	C	G	45.47	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
34465	chrY	13698977	.	G	C	1143.06	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum
34466	chrY	13698978	.	A	T	329.42	my_snp_filter	AC=5;AF=0.179;AN=28;BaseQ
34467	chrY	13698997	.	G	C	365.88	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
34468	chrY	13699005	.	T	A	57.16	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum
34469	chrY	13699044	.	A	G	398.06	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum
34470	chrY	13699046	.	G	A	136.01	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum
34471	chrY	13699051	.	G	A	36.22	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
34472	chrY	13699076	.	T	A	2815.31	PASS	AC=15;AF=0.500;AN=30;BaseQRankSum
34473	chrY	13699085	.	T	A	136.74	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum
34474	chrY	13699090	.	T	A	224.66	PASS	AC=4;AF=0.154;AN=26;BaseQRankSum
34475	chrY	13699096	.	G	A	182.30	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum
34476	chrY	13699099	.	G	C	132.53	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum
34477	chrY	13699152	.	T	A	797.21	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
34478	chrY	13699355	.	C	A	44.90	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
34479	chrY	13699369	.	T	A	109.14	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
34480	chrY	13699374	.	T	C	106.28	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
34481	chrY	13699376	.	G	T	282.30	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
34482	chrY	13700072	.	A	C	123.69	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
34483	chrY	13700124	.	T	C	2773.24	my_snp_filter	AC=24;AF=0.500;AN=48;BaseQ
34484	chrY	13700134	.	G	T	2905.49	my_snp_filter	AC=28;AF=0.609;AN=46;DP=3
34485	chrY	13700159	.	C	A	3150.20	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum
34486	chrY	13700239	.	T	G	561.51	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum
34487	chrY	13700241	.	G	T	551.67	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum
34488	chrY	13700254	.	T	A	793.71	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34489	chrY	13700276	.	G	C	1260.10	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34490	chrY	13700284	.	C	G	1148.45	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
34491	chrY	13700298	.	A	G	68.01	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
34492	chrY	13700300	.	G	A	82.87	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
34493	chrY	13700305	.	T	G	583.88	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
34494	chrY	13700306	.	C	G	589.34	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
34495	chrY	13700316	.	G	C	912.72	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
34496	chrY	13700358	.	C	G	2864.75	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
34497	chrY	13700364	.	T	A	17248.71	my_snp_filter	AC=8;AF=0.308;AN=
34498	chrY	13700381	.	G	C	56.22	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
34499	chrY	13700404	.	T	A	1801.62	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
34500	chrY	13700417	.	A	G	125.15	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
34501	chrY	13700418	.	C	T	125.22	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
34502	chrY	13700430	.	T	G	16505.75	my_snp_filter	AC=11;AF=0.367;AN
34503	chrY	13700481	.	G	T	842.85	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
34504	chrY	13700489	.	T	C	121.33	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ

34505	chrY	13700501	.	C	G	478.56	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
34506	chrY	13700509	.	T	C	1182.08	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
34507	chrY	13700510	.	A	G	6319.02	my_snp_filter	AC=15;AF=0.417;AN=36;Base
34508	chrY	13700514	.	C	T	1505.25	my_snp_filter	AC=8;AF=0.200;AN=40;BaseQ
34509	chrY	13700515	.	C	G	5780.02	my_snp_filter	AC=13;AF=0.382;AN=34;Base
34510	chrY	13700517	.	A	C	1822.12	my_snp_filter	AC=10;AF=0.192;AN=52;Base
34511	chrY	13700543	.	C	G,T	11733.03	my_snp_filter	AC=19,19;AF=0.297
34512	chrY	13700561	.	A	G	678.55	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
34513	chrY	13700566	.	A	T	340.61	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
34514	chrY	13700575	.	T	G	4655.85	my_snp_filter	AC=25;AF=0.379;AN=66;Base
34515	chrY	13700582	.	A	T	3491.22	my_snp_filter	AC=17;AF=0.266;AN=64;Base
34516	chrY	13700583	.	C	T	24934.86	my_snp_filter	AC=31;AF=0.500;AN
34517	chrY	13700584	.	A	T	25051.71	my_snp_filter	AC=31;AF=0.500;AN
34518	chrY	13700588	.	T	A	532.88	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
34519	chrY	13700594	.	G	A,T	1544.66	my_snp_filter	AC=6,1;AF=0.088,0.015;AN=
34520	chrY	13700600	.	G	A	146.92	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
34521	chrY	13700607	.	A	G	3605.89	my_snp_filter	AC=18;AF=0.273;AN=66;Base
34522	chrY	13700609	.	T	G,C	34103.91	my_snp_filter	AC=12,41;AF=0.194
34523	chrY	13700630	.	A	C	284.81	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
34524	chrY	13700634	.	C	A	22281.35	my_snp_filter	AC=35;AF=0.547;AN
34525	chrY	13700644	.	G	T	3130.57	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
34526	chrY	13700678	.	T	A	221.95	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
34527	chrY	13700689	.	G	T	85.81	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
34528	chrY	13700690	.	A	C	411.75	my_snp_filter	AC=12;AF=0.188;AN=64;Base
34529	chrY	13700720	.	C	G	6478.35	my_snp_filter	AC=21;AF=0.438;AN=48;Base
34530	chrY	13700772	.	A	T	183.66	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
34531	chrY	13700777	.	A	T	107.39	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
34532	chrY	13700778	.	A	G	113.23	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
34533	chrY	13700810	.	C	T	268.74	PASS	AC=8;AF=1.00;AN=8;DP=20;FS=0.000;
34534	chrY	13700839	.	T	G	216.10	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
34535	chrY	13700857	.	T	C	467.62	my_snp_filter	AC=2;AF=0.333;AN=6;BaseQR
34536	chrY	13700903	.	G	A	215.61	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
34537	chrY	13700916	.	A	G	126.91	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
34538	chrY	13700930	.	T	A	542.16	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
34539	chrY	13700947	.	T	C	166.78	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
34540	chrY	13700951	.	A	C	167.80	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
34541	chrY	13700959	.	G	T	236.96	my_snp_filter	AC=2;AF=0.200;AN=10;BaseQ
34542	chrY	13700963	.	G	A	172.52	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
34543	chrY	13700984	.	A	G	88.89	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
34544	chrY	13701231	.	G	A	614.48	my_snp_filter	AC=10;AF=0.385;AN=26;Base
34545	chrY	13701292	.	A	T	2901.79	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
34546	chrY	13701305	.	A	C	1630.15	my_snp_filter	AC=7;AF=0.146;AN=48;BaseQ
34547	chrY	13701308	.	T	G	319.57	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
34548	chrY	13701318	.	C	A	113.10	my_snp_filter	AC=6;AF=0.200;AN=30;DP=43
34549	chrY	13701329	.	G	A	2064.85	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQ
34550	chrY	13701331	.	A	T	115.54	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
34551	chrY	13701333	.	A	G	6878.33	my_snp_filter	AC=11;AF=0.344;AN=32;Base
34552	chrY	13701341	.	C	G,A	5990.71	my_snp_filter	AC=8,5;AF=0.267,0.167;AN=
34553	chrY	13701363	.	G	T	251.58	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
34554	chrY	13701372	.	T	A	122.98	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
34555	chrY	13701374	.	G	A	553.19	my_snp_filter	AC=6;AF=0.111;AN=54;BaseQ
34556	chrY	13701389	.	G	T	71.12	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
34557	chrY	13701392	.	A	C	77.13	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
34558	chrY	13701395	.	A	C	634.76	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
34559	chrY	13701409	.	G	A	479.31	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
34560	chrY	13701462	.	A	C	39.37	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
34561	chrY	13701469	.	A	G	540.16	my_snp_filter	AC=10;AF=0.200;AN=50;Base
34562	chrY	13701470	.	A	T	138.15	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
34563	chrY	13701473	.	C	G	82.78	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
34564	chrY	13701504	.	C	G	2719.86	my_snp_filter	AC=12;AF=0.300;AN=40;Base
34565	chrY	13701518	.	C	T	43.34	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
34566	chrY	13701537	.	G	T	24719.63	my_snp_filter	AC=16;AF=0.421;AN
34567	chrY	13701539	.	G	C	8938.57	my_snp_filter	AC=10;AF=0.238;AN=42;Base
34568	chrY	13701554	.	A	G	37577.83	my_snp_filter	AC=14;AF=0.318;AN
34569	chrY	13701556	.	A	G	2362.71	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
34570	chrY	13701561	.	T	C,A	38880.07	my_snp_filter	AC=9,5;AF=0.205,0
34571	chrY	13701593	.	G	C	113.84	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
34572	chrY	13701598	.	C	T	1331.25	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
34573	chrY	13701615	.	A	C	43.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34574	chrY	13701619	.	G	A	41.48	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
34575	chrY	13701624	.	G	C	210.19	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34576	chrY	13701629	.	G	C	71.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34577	chrY	13701634	.	G	C	84.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34578	chrY	13701638	.	G	A	161.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34579	chrY	13701641	.	A	C	98144.38	my_snp_filter	AC=52;AF=0.743;AN
34580	chrY	13701647	.	T	A	112.48	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ

34581	chrY	13701650	.	A	T	174.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34582	chrY	13701652	.	T	C	40.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34583	chrY	13701663	.	C	G	75.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34584	chrY	13701668	.	G	A	176	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34585	chrY	13701672	.	T	A	31.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34586	chrY	13701679	.	C	G,T	96045.05	my_snp_filter	AC=57,3;AF=0.864,
34587	chrY	13701682	.	T	A	109.64	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
34588	chrY	13701691	.	C	A	1778.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
34589	chrY	13701696	.	A	G	34.56	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
34590	chrY	13701705	.	T	A	73381.36	my_snp_filter	AC=34;AF=0.895;AN
34591	chrY	13701706	.	G	C	73554.96	my_snp_filter	AC=34;AF=0.895;AN
34592	chrY	13701719	.	G	T	44.94	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
34593	chrY	13701723	.	C	G	45.08	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
34594	chrY	13701724	.	G	A	134.75	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
34595	chrY	13701753	.	C	G	49.62	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
34596	chrY	13701759	.	C	G	834.23	my_snp_filter	AC=4;AF=0.500;AN=8;BaseQR
34597	chrY	13701762	.	C	T	712.58	my_snp_filter	AC=5;AF=0.625;AN=8;BaseQR
34598	chrY	13701798	.	C	T	47.55	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
34599	chrY	13701864	.	G	T	278.34	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
34600	chrY	13701869	.	G	C	147.21	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
34601	chrY	13701891	.	A	T	15075.09	my_snp_filter	AC=8;AF=0.500;AN=
34602	chrY	13701898	.	C	A	265.63	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
34603	chrY	13701916	.	T	A	24151.95	my_snp_filter	AC=5;AF=0.833;AN=
34604	chrY	13701923	.	A	G	17591.85	my_snp_filter	AC=3;AF=0.750;AN=
34605	chrY	13701928	.	C	G	105.73	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
34606	chrY	13701932	.	A	T	20755.75	my_snp_filter	AC=4;AF=1.00;AN=4
34607	chrY	13701988	.	A	G	786.87	my_snp_filter	AC=4;AF=1.00;AN=4;DP=56;F
34608	chrY	13702020	.	G	A	313.01	my_snp_filter	AC=5;AF=0.500;AN=10;BaseQ
34609	chrY	13702032	.	A	T	237.10	my_snp_filter	AC=6;AF=0.500;AN=12;BaseQ
34610	chrY	13702068	.	A	G	235.83	my_snp_filter	AC=7;AF=0.700;AN=10;BaseQ
34611	chrY	13702074	.	T	G	232.83	my_snp_filter	AC=7;AF=0.700;AN=10;BaseQ
34612	chrY	13702146	.	A	T	263.79	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
34613	chrY	13702191	.	G	C	56.70	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
34614	chrY	13702193	.	G	C	57.82	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
34615	chrY	13702338	.	G	C	78.72	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
34616	chrY	13702412	.	G	C	418.42	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
34617	chrY	13702433	.	C	T	656.26	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
34618	chrY	13702437	.	C	A	71.80	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
34619	chrY	13702441	.	T	C	71.69	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
34620	chrY	13702445	.	A	T	71.77	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
34621	chrY	13702448	.	A	G	374.22	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
34622	chrY	13702458	.	G	A	85.92	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34623	chrY	13702513	.	T	A	209.73	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
34624	chrY	13702600	.	A	G	40.72	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
34625	chrY	13702687	.	G	T	135.78	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
34626	chrY	13703908	.	C	G	332.60	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
34627	chrY	13703926	.	A	G	399.97	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
34628	chrY	13703948	.	C	T	618.50	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34629	chrY	13703949	.	A	T	570.50	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34630	chrY	13703971	.	T	C	38.67	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
34631	chrY	13703974	.	T	C	828.98	my_snp_filter	AC=5;AF=0.096;AN=52;BaseQ
34632	chrY	13703988	.	A	C	243.38	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
34633	chrY	13703997	.	A	G	331.85	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
34634	chrY	13703999	.	C	A	567.80	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
34635	chrY	13704010	.	G	C	326.61	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
34636	chrY	13704085	.	C	G	385.88	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
34637	chrY	13704156	.	A	G	65.87	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
34638	chrY	13704207	.	G	A	68.18	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
34639	chrY	13704254	.	C	G	591.22	PASS	AC=4;AF=0.400;AN=10;DP=261;FS=0.0
34640	chrY	13704357	.	T	C	353.27	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
34641	chrY	13704367	.	T	A	982.47	my_snp_filter	AC=15;AF=0.357;AN=42;Base
34642	chrY	13704373	.	G	A,*	5573.58	PASS	AC=16,9;AF=0.400,0.225;AN=40;Base
34643	chrY	13704377	.	C	T,*	5089.78	PASS	AC=18,8;AF=0.474,0.211;AN=38;Base
34644	chrY	13704391	.	C	G	417.68	PASS	AC=5;AF=0.500;AN=10;BaseQRankSum=
34645	chrY	13704508	.	T	G	915.36	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
34646	chrY	13704521	.	G	A	15331.91	my_snp_filter	AC=8;AF=0.129;AN=
34647	chrY	13704524	.	G	T	953.41	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
34648	chrY	13704532	.	T	C	680.47	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
34649	chrY	13704580	.	A	C	276.62	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34650	chrY	13704612	.	C	G	510.56	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34651	chrY	13704621	.	T	A	3448.85	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
34652	chrY	13704630	.	A	G	101.78	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34653	chrY	13704632	.	G	T	1512.93	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
34654	chrY	13704665	.	A	T	49.20	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34655	chrY	13704681	.	G	A	3475.15	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
34656	chrY	13704692	.	T	C	2732.62	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ

34657	chrY	13704700	.	A	G	2836.73	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
34658	chrY	13704721	.	C	T	5438.28	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
34659	chrY	13704722	.	G	A	174.05	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
34660	chrY	13704724	.	A	T	67.17	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
34661	chrY	13704746	.	T	A	4060.88	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
34662	chrY	13704792	.	C	G	138.55	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
34663	chrY	13704793	.	C	T	293.55	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
34664	chrY	13704797	.	G	C	3460.14	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
34665	chrY	13704812	.	G	C	3431.12	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
34666	chrY	13704816	.	G	A	293.17	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
34667	chrY	13704822	.	G	T	497.81	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
34668	chrY	13704823	.	G	C	933.01	my_snp_filter	AC=6;AF=0.214;AN=28;BaseQ
34669	chrY	13704824	.	A	C	5757.13	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
34670	chrY	13704827	.	G	T	83.28	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
34671	chrY	13704849	.	T	A	6159.28	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
34672	chrY	13704869	.	A	C,T	4242.92	my_snp_filter	AC=1,7;AF=0.038,0.269;AN=
34673	chrY	13704875	.	A	T	16470.22	my_snp_filter	AC=8;AF=0.364;AN=
34674	chrY	13704900	.	T	G	1693.73	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
34675	chrY	13704921	.	G	A	50.53	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
34676	chrY	13704923	.	A	G	9153.31	my_snp_filter	AC=12;AF=0.333;AN=36;Base
34677	chrY	13704930	.	C	T	1106	my_snp_filter	AC=5;AF=0.179;AN=28;BaseQ
34678	chrY	13704934	.	C	G	122.47	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
34679	chrY	13704947	.	G	A,*	3544.92	my_snp_filter	AC=4,6;AF=0.143,0.214;AN=
34680	chrY	13704949	.	A	C,*	2445.58	my_snp_filter	AC=11,4;AF=0.344,0.125;AN
34681	chrY	13704959	.	A	C	137.25	my_snp_filter	AC=4;AF=0.100;AN=40;BaseQ
34682	chrY	13704962	.	T	A	45.87	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
34683	chrY	13704995	.	T	A	313.83	my_snp_filter	AC=4;AF=0.100;AN=40;BaseQ
34684	chrY	13705016	.	A	G	767.65	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
34685	chrY	13705038	.	A	T	793.43	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
34686	chrY	13705045	.	G	T	1879.74	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
34687	chrY	13705050	.	A	T	1753.73	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
34688	chrY	13705060	.	T	C	381.30	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
34689	chrY	13705062	.	G	A	354.50	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
34690	chrY	13705110	.	T	A	38.65	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
34691	chrY	13705116	.	G	T	129.93	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
34692	chrY	13705117	.	G	T	43.65	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
34693	chrY	13705340	.	A	G	37.61	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
34694	chrY	13705356	.	G	A	100.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
34695	chrY	13705361	.	G	A	1604.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34696	chrY	13705375	.	C	G	282.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34697	chrY	13705423	.	A	G	26911.36	my_snp_filter	AC=19;AF=0.288;AN
34698	chrY	13705431	.	C	G	68295.58	my_snp_filter	AC=25;AF=0.463;AN
34699	chrY	13705453	.	G	A	69981.05	my_snp_filter	AC=24;AF=0.522;AN
34700	chrY	13705458	.	T	A	978.26	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
34701	chrY	13705468	.	A	T	5961.56	my_snp_filter	AC=11;AF=0.162;AN=68;Base
34702	chrY	13705498	.	A	G,T,*	3695.82	my_snp_filter	AC=9,1,2;AF=0.129,0.014,0
34703	chrY	13705500	.	G	C,*	3721.60	my_snp_filter	AC=1,6;AF=0.014,0.086;AN=
34704	chrY	13705508	.	A	T,*	5609.41	my_snp_filter	AC=10,1;AF=0.143,0.014;AN
34705	chrY	13705510	.	G	C,*	6967.61	my_snp_filter	AC=7,4;AF=0.100,0.057;AN=
34706	chrY	13705523	.	A	T	17800.73	my_snp_filter	AC=16;AF=0.421;AN
34707	chrY	13705525	.	C	A	1242.06	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34708	chrY	13705530	.	G	A	999.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34709	chrY	13705535	.	G	T	3034.62	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34710	chrY	13705536	.	G	T	3007.48	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
34711	chrY	13705546	.	G	T	3181.70	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
34712	chrY	13705549	.	T	C	229.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34713	chrY	13705566	.	A	G	67137.68	my_snp_filter	AC=20;AF=0.435;AN
34714	chrY	13705572	.	A	G	1810.14	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34715	chrY	13705581	.	A	T	614.93	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34716	chrY	13705584	.	T	A	51260.96	my_snp_filter	AC=19;AF=0.500;AN
34717	chrY	13705585	.	A	G	52544.87	my_snp_filter	AC=19;AF=0.500;AN
34718	chrY	13705586	.	A	G	1194.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34719	chrY	13705589	.	T	A	1610.81	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
34720	chrY	13705590	.	T	A	1290.58	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
34721	chrY	13705592	.	C	A	55309.23	my_snp_filter	AC=20;AF=0.500;AN
34722	chrY	13705596	.	G	A	250.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34723	chrY	13705605	.	C	A	15194.16	my_snp_filter	AC=19;AF=0.271;AN
34724	chrY	13705609	.	T	C	1826.07	my_snp_filter	AC=13;AF=0.186;AN=70;Base
34725	chrY	13705628	.	C	G	21933.06	my_snp_filter	AC=9;AF=0.136;AN=
34726	chrY	13705640	.	G	A,*	2347.15	my_snp_filter	AC=8,4;AF=0.114,0.057;AN=
34727	chrY	13705644	.	T	A,*	853.51	my_snp_filter	AC=6,3;AF=0.088,0.044;AN=
34728	chrY	13705653	.	A	G	19443.42	my_snp_filter	AC=9;AF=0.141;AN=
34729	chrY	13705655	.	G	A	110.55	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34730	chrY	13705658	.	G	C,A	1961.95	my_snp_filter	AC=4,8;AF=0.057,0.114;AN=
34731	chrY	13705669	.	C	T	37099.37	my_snp_filter	AC=14;AF=0.368;AN
34732	chrY	13705675	.	C	A	112.21	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ

34733	chrY	13705689	.	T	G	1553.81	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ=
34734	chrY	13705691	.	C	G	28334.24	my_snp_filter	AC=10;AF=0.313;AN=
34735	chrY	13705712	.	A	T	263.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ=
34736	chrY	13705720	.	T	G	28712.05	my_snp_filter	AC=10;AF=0.167;AN=
34737	chrY	13705722	.	A	T	347.71	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ=
34738	chrY	13705734	.	T	C	783.17	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ=
34739	chrY	13705739	.	A	T	27369.27	my_snp_filter	AC=10;AF=0.143;AN=
34740	chrY	13705746	.	G	A	721.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
34741	chrY	13705785	.	G	A	302.86	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ=
34742	chrY	13705821	.	A	G	2291.30	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
34743	chrY	13705826	.	G	C	4926.92	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
34744	chrY	13705828	.	G	A	90.84	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=
34745	chrY	13705832	.	T	C	86.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=
34746	chrY	13705848	.	G	T	248.38	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ=
34747	chrY	13705858	.	G	A	1438.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
34748	chrY	13705871	.	C	T	1349.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34749	chrY	13705873	.	C	T	1543.12	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34750	chrY	13705874	.	G	T	1510.35	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34751	chrY	13705888	.	G	C	1451.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34752	chrY	13705893	.	A	G	1049.62	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34753	chrY	13705894	.	G	T	303.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
34754	chrY	13705902	.	T	A	59.63	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ=
34755	chrY	13705951	.	G	A	138.01	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
34756	chrY	13706008	.	T	G	307.31	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
34757	chrY	13706065	.	A	C	1940.28	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34758	chrY	13706082	.	T	A,*	1426.09	PASS	AC=3,3;AF=0.052,0.052;AN=58;BaseQ=
34759	chrY	13706085	.	T	A,C,*	2113.32	PASS	AC=7,2,2;AF=0.167,0.048,0.048;AN=
34760	chrY	13706089	.	G	C,*	733.34	PASS	AC=1,2;AF=0.018,0.036;AN=56;BaseQ=
34761	chrY	13706091	.	G	A,*	1262.46	PASS	AC=7,3;AF=0.167,0.071;AN=42;BaseQ=
34762	chrY	13706115	.	T	A,C	1501.94	PASS	AC=2,4;AF=0.045,0.091;AN=44;BaseQ=
34763	chrY	13706120	.	A	C	307.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34764	chrY	13706124	.	G	T	2455.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
34765	chrY	13706130	.	A	T,C	996.73	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ=
34766	chrY	13706143	.	G	T	5552.79	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
34767	chrY	13706152	.	T	G	108.77	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ=
34768	chrY	13706154	.	G	A	302.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34769	chrY	13706155	.	G	A	524.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34770	chrY	13706159	.	G	T	370.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34771	chrY	13706160	.	G	T	375.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34772	chrY	13706161	.	C	T	527.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34773	chrY	13706166	.	A	G	54.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34774	chrY	13706172	.	T	A	2417.77	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
34775	chrY	13706173	.	A	G	8712.24	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
34776	chrY	13706193	.	C	G	293.94	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ=
34777	chrY	13706206	.	G	T	9920.60	my_snp_filter	AC=10;AF=0.179;AN=56;BaseQ=
34778	chrY	13706217	.	T	C	9301.95	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ=
34779	chrY	13706234	.	T	C	11564.08	my_snp_filter	AC=6;AF=0.086;AN=
34780	chrY	13706243	.	A	G	12008.99	my_snp_filter	AC=6;AF=0.086;AN=
34781	chrY	13706265	.	A	G	897.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ=
34782	chrY	13706269	.	G	A	1708.35	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQ=
34783	chrY	13706283	.	C	T	1490.72	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ=
34784	chrY	13706320	.	A	T	845.63	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ=
34785	chrY	13706331	.	A	T	17482.19	my_snp_filter	AC=24;AF=0.375;AN=
34786	chrY	13706344	.	A	C	4751.86	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQ=
34787	chrY	13706352	.	T	C	2074.34	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ=
34788	chrY	13706379	.	T	G	3817.21	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ=
34789	chrY	13706384	.	G	A	132.63	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34790	chrY	13706390	.	G	A	2517.86	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ=
34791	chrY	13706407	.	T	C	181.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34792	chrY	13706409	.	G	A	287.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34793	chrY	13706430	.	A	C	85.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
34794	chrY	13706546	.	T	A,C	2798.41	PASS	AC=3,10;AF=0.043,0.143;AN=70;BaseQ=
34795	chrY	13706560	.	A	G	695.64	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ=
34796	chrY	13706562	.	T	A	106.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
34797	chrY	13706573	.	G	A	1350.56	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34798	chrY	13706588	.	G	C	475.37	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ=
34799	chrY	13706630	.	C	A	3437.84	my_snp_filter	AC=12;AF=0.176;AN=68;BaseQ=
34800	chrY	13706632	.	G	A	11954.88	my_snp_filter	AC=15;AF=0.227;AN=
34801	chrY	13706645	.	T	G	6702.63	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ=
34802	chrY	13706649	.	T	A	9119.53	my_snp_filter	AC=12;AF=0.182;AN=66;BaseQ=
34803	chrY	13706657	.	T	G	152.63	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ=
34804	chrY	13706700	.	A	T	928.48	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
34805	chrY	13706715	.	A	G	1515.51	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34806	chrY	13706720	.	A	G,*	309.45	my_snp_filter	AC=3,2;AF=0.044,0.029;AN=
34807	chrY	13706723	.	G	C,*	250.77	my_snp_filter	AC=3,1;AF=0.044,0.015;AN=
34808	chrY	13706727	.	C	G	3258.08	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=

34809	chrY	13706731	.	T	C	1281.05	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
34810	chrY	13706741	.	A	T,*	260.60	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
34811	chrY	13706748	.	T	G,*	261.40	PASS	AC=2,1;AF=0.032,0.016;AN=62;BaseQ
34812	chrY	13706761	.	T	C	5055.52	PASS	AC=19;AF=0.396;AN=48;BaseQRankSum=
34813	chrY	13706793	.	G	A	46.48	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
34814	chrY	13706796	.	C	T	85.33	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
34815	chrY	13706813	.	G	A	153.03	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
34816	chrY	13706837	.	C	G	34.84	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
34817	chrY	13706838	.	G	A	375.53	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
34818	chrY	13706850	.	T	A	4730.90	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
34819	chrY	13706867	.	T	G,A	11088.43	PASS	AC=26,4;AF=0.382,0.059;AN=
34820	chrY	13706878	.	G	T	187.58	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34821	chrY	13706893	.	A	G,*	5504.98	PASS	AC=9,4;AF=0.129,0.057;AN=70;BaseQ
34822	chrY	13706896	.	C	T,*	4049.63	PASS	AC=9,4;AF=0.129,0.057;AN=70;BaseQ
34823	chrY	13706946	.	T	C	38.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34824	chrY	13706951	.	A	T	4873.49	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
34825	chrY	13706958	.	G	A	798.28	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34826	chrY	13706970	.	C	G	4767.45	my_snp_filter	AC=20;AF=0.294;AN=68;BaseQ
34827	chrY	13707001	.	T	A	512.38	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
34828	chrY	13707003	.	G	A	130.89	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
34829	chrY	13707008	.	A	G	3233.06	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
34830	chrY	13707019	.	A	G	83.65	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
34831	chrY	13707065	.	A	G	48.62	my_snp_filter	AC=2;AF=0.037;AN=54;DP=87
34832	chrY	13707078	.	A	C	4611.44	my_snp_filter	AC=19;AF=0.413;AN=46;BaseQ
34833	chrY	13707096	.	G	C	17533.83	my_snp_filter	AC=32;AF=1.00;AN=
34834	chrY	13707106	.	T	A	1004.10	my_snp_filter	AC=7;AF=0.175;AN=40;BaseQ
34835	chrY	13707121	.	T	G	59.27	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
34836	chrY	13707133	.	G	C	49.32	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
34837	chrY	13707161	.	G	T,A	20321.81	my_snp_filter	AC=23,2;AF=0.411,
34838	chrY	13707163	.	T	C,G	20912.81	my_snp_filter	AC=23,2;AF=0.411,
34839	chrY	13707178	.	A	G	24838.80	my_snp_filter	AC=23;AF=0.397;AN=
34840	chrY	13707222	.	C	T	143.11	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
34841	chrY	13707233	.	A	G	15579.53	my_snp_filter	AC=9;AF=0.145;AN=
34842	chrY	13707265	.	A	C	30583.23	my_snp_filter	AC=18;AF=0.450;AN=
34843	chrY	13707303	.	C	G	43213.17	my_snp_filter	AC=27;AF=0.587;AN=
34844	chrY	13707311	.	T	G	71.22	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
34845	chrY	13707329	.	T	A	37940.21	my_snp_filter	AC=9;AF=0.409;AN=
34846	chrY	13707330	.	G	C	37784.97	my_snp_filter	AC=9;AF=0.409;AN=
34847	chrY	13707377	.	C	G	60.81	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
34848	chrY	13707392	.	A	G	282.60	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQ
34849	chrY	13707393	.	C	G	4990.92	my_snp_filter	AC=10;AF=0.357;AN=28;BaseQ
34850	chrY	13707394	.	C	T	5093.92	my_snp_filter	AC=10;AF=0.357;AN=28;BaseQ
34851	chrY	13707397	.	T	G,A	3498.94	my_snp_filter	AC=7,1;AF=0.184,0.026;AN=
34852	chrY	13707409	.	A	T	501.31	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
34853	chrY	13707433	.	G	T	3740.27	my_snp_filter	AC=8;AF=0.160;AN=50;BaseQ
34854	chrY	13707474	.	C	A	32324.97	my_snp_filter	AC=26;AF=0.619;AN=
34855	chrY	13707510	.	T	G	157275.90	my_snp_filter	AC=50;AF=0.758;AN=
34856	chrY	13707515	.	A	T	91126.20	my_snp_filter	AC=34;AF=0.515;AN=
34857	chrY	13707525	.	G	A	56.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34858	chrY	13707526	.	T	A	56.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34859	chrY	13707540	.	T	A	197890.57	my_snp_filter	AC=54;AF=0.818;AN=
34860	chrY	13707547	.	A	G	198328.09	my_snp_filter	AC=55;AF=0.833;AN=
34861	chrY	13707580	.	C	G	104899.70	my_snp_filter	AC=39;AF=0.591;AN=
34862	chrY	13707627	.	C	G	32.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34863	chrY	13707644	.	T	A	105567.97	my_snp_filter	AC=40;AF=0.571;AN=
34864	chrY	13707656	.	A	T	98202.76	my_snp_filter	AC=40;AF=0.571;AN=
34865	chrY	13707692	.	T	G	82389.09	PASS	AC=68;AF=0.971;AN=70;BaseQ
34866	chrY	13707694	.	C	A	19841.08	my_snp_filter	AC=12;AF=0.171;AN=
34867	chrY	13707711	.	T	C	11594.65	PASS	AC=26;AF=0.371;AN=70;BaseQ
34868	chrY	13707785	.	T	A	1867.06	my_snp_filter	AC=14;AF=0.226;AN=62;BaseQ
34869	chrY	13707992	.	T	G	368.99	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
34870	chrY	13707994	.	C	A	782.36	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
34871	chrY	13707996	.	C	G	208.92	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
34872	chrY	13708036	.	G	C	266.27	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
34873	chrY	13708057	.	C	G	13163.43	my_snp_filter	AC=8;AF=0.364;AN=
34874	chrY	13708065	.	T	C	1496.55	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
34875	chrY	13708069	.	A	T	1561.12	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQ
34876	chrY	13708082	.	G	A	1059.62	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
34877	chrY	13708137	.	T	A	39161.15	my_snp_filter	AC=10;AF=0.556;AN=
34878	chrY	13708226	.	T	G	49.22	my_snp_filter	AC=2;AF=0.038;AN=52;DP=23
34879	chrY	13708231	.	A	T	46309.01	my_snp_filter	AC=23;AF=0.605;AN=
34880	chrY	13708232	.	T	A	77008.36	my_snp_filter	AC=25;AF=0.735;AN=
34881	chrY	13708265	.	A	T	50377.37	my_snp_filter	AC=16;AF=0.615;AN=
34882	chrY	13708361	.	G	A	376.80	my_snp_filter	AC=12;AF=0.286;AN=42;BaseQ
34883	chrY	13708432	.	G	A	3865.85	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
34884	chrY	13708442	.	C	T	98.88	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ

34885	chrY	13708443	.	G	C	1145.01	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
34886	chrY	13708463	.	A	G	4256.72	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
34887	chrY	13708486	.	G	T	7814.69	my_snp_filter	AC=8;AF=0.333;AN=24;BaseQ
34888	chrY	13708500	.	G	T	124.73	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
34889	chrY	13708514	.	A	T	5047.24	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
34890	chrY	13708608	.	T	A	9119.84	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
34891	chrY	13708636	.	A	T	113.38	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
34892	chrY	13708683	.	T	A	576.33	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
34893	chrY	13708719	.	T	G	331.38	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
34894	chrY	13708744	.	G	A	1097.45	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
34895	chrY	13708762	.	A	T	1790.75	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
34896	chrY	13708771	.	C	A	423.19	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
34897	chrY	13708879	.	C	G	3468.88	my_snp_filter	AC=19;AF=0.279;AN=68;BaseQ
34898	chrY	13708884	.	T	A	76932.98	my_snp_filter	AC=37;AF=0.544;AN=
34899	chrY	13708885	.	T	C	5515.51	my_snp_filter	AC=26;AF=0.382;AN=68;BaseQ
34900	chrY	13708897	.	A	C	5852.24	my_snp_filter	AC=26;AF=0.382;AN=68;BaseQ
34901	chrY	13708936	.	A	C	4212.65	my_snp_filter	AC=25;AF=0.368;AN=68;BaseQ
34902	chrY	13708940	.	A	C	46.84	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34903	chrY	13708954	.	T	G	129160.16	my_snp_filter	AC=36;AF=0.529;AN=
34904	chrY	13708968	.	T	A	14861.91	my_snp_filter	AC=25;AF=0.368;AN=
34905	chrY	13708970	.	G	A	653.10	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
34906	chrY	13708973	.	T	A	27928.62	my_snp_filter	AC=31;AF=0.443;AN=
34907	chrY	13708986	.	A	C	61.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34908	chrY	13708993	.	A	T	29158.83	my_snp_filter	AC=30;AF=0.429;AN=
34909	chrY	13709001	.	T	A,C	91734.18	my_snp_filter	AC=11,34;AF=0.157
34910	chrY	13709003	.	C	T	4197.32	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
34911	chrY	13709020	.	T	C	1182.24	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
34912	chrY	13709044	.	C	G	130.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
34913	chrY	13709049	.	G	T	132.09	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34914	chrY	13709064	.	G	C	92.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34915	chrY	13709071	.	A	C	386.31	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34916	chrY	13709072	.	A	C	17932.19	my_snp_filter	AC=26;AF=0.371;AN=
34917	chrY	13709085	.	G	T	335.88	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34918	chrY	13709091	.	G	A	3285.91	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
34919	chrY	13709105	.	C	G	3878.82	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
34920	chrY	13709109	.	C	A,T	2651.44	PASS	AC=2,8;AF=0.029,0.114;AN=70;BaseQ
34921	chrY	13709114	.	C	G	216.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
34922	chrY	13709144	.	C	G	1905.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
34923	chrY	13709156	.	C	G	2074.67	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
34924	chrY	13709157	.	A	G	242.82	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
34925	chrY	13709158	.	C	T	1181.72	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34926	chrY	13709184	.	T	G	1287.63	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
34927	chrY	13709209	.	T	A	142.67	PASS	AC=2;AF=0.029;AN=68;DP=745;FS=0.0
34928	chrY	13709243	.	A	G	1222.15	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
34929	chrY	13709255	.	C	T	337.20	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
34930	chrY	13709276	.	G	C	1019.88	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
34931	chrY	13709284	.	C	G	69.69	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
34932	chrY	13709346	.	A	G	2755.87	my_snp_filter	AC=6;AF=0.200;AN=30;BaseQ
34933	chrY	13709364	.	T	A	1004.38	my_snp_filter	AC=6;AF=0.231;AN=26;BaseQ
34934	chrY	13709417	.	A	G	406.03	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
34935	chrY	13709418	.	C	T	401.71	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
34936	chrY	13709441	.	A	C	264.89	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
34937	chrY	13709473	.	A	C	415.62	my_snp_filter	AC=8;AF=0.148;AN=54;BaseQ
34938	chrY	13709476	.	T	G,A	574.41	my_snp_filter	AC=3,8;AF=0.063,0.167;AN=
34939	chrY	13709481	.	G	C	78.48	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
34940	chrY	13709504	.	T	C	447.93	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
34941	chrY	13709505	.	A	G	2955.46	my_snp_filter	AC=9;AF=0.346;AN=26;BaseQ
34942	chrY	13709509	.	C	T	287.66	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
34943	chrY	13709510	.	C	G	1155.82	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
34944	chrY	13709512	.	A	C	289.69	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
34945	chrY	13709538	.	C	T,G	2042.49	my_snp_filter	AC=14,16;AF=0.333,0.381;AN=
34946	chrY	13709561	.	A	T	335.54	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
34947	chrY	13709570	.	T	G	1026.96	my_snp_filter	AC=10;AF=0.172;AN=58;BaseQ
34948	chrY	13709577	.	A	T	504.76	my_snp_filter	AC=5;AF=0.114;AN=44;BaseQ
34949	chrY	13709578	.	C	T	3865.49	my_snp_filter	AC=21;AF=0.525;AN=40;BaseQ
34950	chrY	13709579	.	A	T	3853.22	my_snp_filter	AC=21;AF=0.525;AN=40;BaseQ
34951	chrY	13709602	.	A	G	535.03	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
34952	chrY	13709604	.	T	C	3830.49	my_snp_filter	AC=18;AF=0.500;AN=36;BaseQ
34953	chrY	13709629	.	C	A	1401.63	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
34954	chrY	13709641	.	T	A	1565.92	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
34955	chrY	13709778	.	A	G	3845.08	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
34956	chrY	13709792	.	A	C	2767.09	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
34957	chrY	13709804	.	A	C	410.57	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
34958	chrY	13709821	.	A	G	493.37	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
34959	chrY	13709898	.	G	A	4677.92	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
34960	chrY	13709912	.	T	C	4346.56	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=

34961	chrY	13709925	.	T	A	48988.23	PASS	AC=14;AF=0.438;AN=32;BaseQ
34962	chrY	13709938	.	C	T	2345.41	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
34963	chrY	13709942	.	T	C	10642.19	PASS	AC=8;AF=0.143;AN=56;BaseQ
34964	chrY	13709954	.	G	T	4615.90	PASS	AC=16;AF=0.364;AN=44;BaseQRankSum
34965	chrY	13709958	.	G	T	44.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
34966	chrY	13710016	.	A	G	4084.73	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum
34967	chrY	13710022	.	C	A	3719.49	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum
34968	chrY	13710031	.	A	G	3525.82	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
34969	chrY	13710048	.	G	A	44.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
34970	chrY	13710054	.	A	T	2394.87	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
34971	chrY	13710056	.	A	T	32.41	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
34972	chrY	13710068	.	A	G	560.46	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
34973	chrY	13710074	.	G	A	846.48	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
34974	chrY	13710087	.	T	C	702.08	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
34975	chrY	13710091	.	A	T	677.66	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
34976	chrY	13710093	.	T	G	20002.87	my_snp_filter	AC=30;AF=0.455;AN
34977	chrY	13710106	.	G	A	138772.82	my_snp_filter	AC=34;AF=0.515;AN
34978	chrY	13710107	.	T	A	85.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
34979	chrY	13710109	.	G	T	2578.20	my_snp_filter	AC=13;AF=0.191;AN=68;Base
34980	chrY	13710117	.	T	C	2548.99	my_snp_filter	AC=14;AF=0.206;AN=68;Base
34981	chrY	13710165	.	A	C	3800.36	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
34982	chrY	13710197	.	C	G	3926.62	my_snp_filter	AC=11;AF=0.162;AN=68;Base
34983	chrY	13710199	.	G	T	9565.87	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
34984	chrY	13710203	.	C	G	21994.60	my_snp_filter	AC=30;AF=0.441;AN
34985	chrY	13710217	.	G	T	50441.84	my_snp_filter	AC=33;AF=0.485;AN
34986	chrY	13710221	.	A	G	8918.21	my_snp_filter	AC=19;AF=0.279;AN=68;Base
34987	chrY	13710233	.	C	T	6271.57	my_snp_filter	AC=18;AF=0.265;AN=68;Base
34988	chrY	13710266	.	G	A	39577.19	my_snp_filter	AC=33;AF=0.532;AN
34989	chrY	13710277	.	T	C	121.03	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
34990	chrY	13710285	.	A	G	196.06	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
34991	chrY	13710297	.	A	G	124.76	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
34992	chrY	13710306	.	C	T	13492.98	my_snp_filter	AC=13;AF=0.464;AN
34993	chrY	13710387	.	G	A	6843.15	my_snp_filter	AC=14;AF=0.269;AN=52;Base
34994	chrY	13710411	.	G	A	37.77	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum
34995	chrY	13710437	.	C	T	81.02	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
34996	chrY	13710460	.	A	T	14581.82	my_snp_filter	AC=24;AF=0.480;AN
34997	chrY	13710467	.	G	T	157	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
34998	chrY	13710482	.	T	A	1262.87	my_snp_filter	AC=10;AF=0.227;AN=44;Base
34999	chrY	13710486	.	G	A	677.01	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQ
35000	chrY	13710517	.	T	G	4566.90	my_snp_filter	AC=10;AF=0.714;AN=14;Base
35001	chrY	13710544	.	A	C	1867.42	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35002	chrY	13710552	.	A	T	3840.12	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
35003	chrY	13710557	.	G	A	72.13	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
35004	chrY	13710623	.	A	T	49.38	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35005	chrY	13710635	.	A	T	3800.96	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35006	chrY	13710647	.	G	A	49.07	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
35007	chrY	13710693	.	A	C	1448.70	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
35008	chrY	13710737	.	G	T	177.87	my_snp_filter	AC=4;AF=0.111;AN=36;BaseQ
35009	chrY	13710766	.	G	T	437.95	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
35010	chrY	13710770	.	C	T	443.35	my_snp_filter	AC=6;AF=0.130;AN=46;BaseQ
35011	chrY	13710772	.	G	C	309.82	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum
35012	chrY	13710816	.	C	G	37.15	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
35013	chrY	13710835	.	T	A	32.99	my_snp_filter	AC=2;AF=0.077;AN=26;DP=12
35014	chrY	13711202	.	G	A	2804.58	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
35015	chrY	13711209	.	G	T	91.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
35016	chrY	13711244	.	G	T	179.58	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
35017	chrY	13711245	.	A	T	111.31	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35018	chrY	13711249	.	A	G	74	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35019	chrY	13711253	.	T	A	1078.21	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
35020	chrY	13711256	.	C	A	97.94	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
35021	chrY	13711273	.	T	C	399.41	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35022	chrY	13711292	.	C	G	721.36	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
35023	chrY	13711294	.	C	T	522.62	my_snp_filter	AC=10;AF=0.152;AN=66;Base
35024	chrY	13711298	.	T	G	64.85	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35025	chrY	13711299	.	G	A	125.09	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35026	chrY	13711308	.	T	A	114.10	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
35027	chrY	13711317	.	A	G	731.87	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
35028	chrY	13711333	.	C	T	2470.23	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
35029	chrY	13711355	.	C	G	2032.28	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
35030	chrY	13711398	.	T	C	948.86	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
35031	chrY	13711408	.	C	T	9549.41	my_snp_filter	AC=24;AF=0.364;AN=66;Base
35032	chrY	13711410	.	G	A	993.64	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
35033	chrY	13711423	.	A	G	96.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35034	chrY	13711449	.	G	A	863.09	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35035	chrY	13711457	.	T	A	303.59	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35036	chrY	13711469	.	G	T	1553.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ

35037	chrY	13711486	.	A	G	1245.14	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35038	chrY	13711491	.	G	C	3855.67	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
35039	chrY	13711492	.	C	G	140.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35040	chrY	13711493	.	G	A	327.99	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35041	chrY	13711497	.	T	C	519.36	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35042	chrY	13711502	.	T	C	144.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35043	chrY	13711504	.	G	A	95.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35044	chrY	13711508	.	G	C	63446.18	my_snp_filter	AC=44;AF=0.647;AN=
35045	chrY	13711513	.	G	T	228.84	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35046	chrY	13711523	.	G	A	1054.92	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35047	chrY	13711525	.	A	T	31.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35048	chrY	13711536	.	C	T	1118.31	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35049	chrY	13711538	.	C	T	2288.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35050	chrY	13711539	.	G	T	3356.72	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
35051	chrY	13711552	.	A	T	154.18	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35052	chrY	13711553	.	G	C	10078.95	my_snp_filter	AC=8;AF=0.118;AN=
35053	chrY	13711554	.	C	G	41217.65	my_snp_filter	AC=63;AF=0.955;AN=
35054	chrY	13711559	.	G	A,T	1434.44	my_snp_filter	AC=2,7;AF=0.029,0.100;AN=
35055	chrY	13711571	.	A	G	733.39	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
35056	chrY	13711591	.	A	C	221.54	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35057	chrY	13711592	.	T	A	315.81	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35058	chrY	13711597	.	C	A	284.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35059	chrY	13711603	.	G	T	277.13	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35060	chrY	13711604	.	G	T	104.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35061	chrY	13711614	.	T	G	15793.12	my_snp_filter	AC=29;AF=0.414;AN=
35062	chrY	13711626	.	G	A	1401.17	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
35063	chrY	13711629	.	G	A	162.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
35064	chrY	13711651	.	A	T,G	761.17	my_snp_filter	AC=4,3;AF=0.057,0.043;AN=
35065	chrY	13711674	.	G	C	255.47	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35066	chrY	13711679	.	G	A	314.01	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
35067	chrY	13711683	.	C	G,T	727.74	PASS	AC=4,1;AF=0.059,0.015;AN=68;BaseQ
35068	chrY	13711688	.	C	G	1688.84	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
35069	chrY	13711689	.	A	G	5558.07	my_snp_filter	AC=18;AF=0.273;AN=66;BaseQ
35070	chrY	13711695	.	A	T	131.96	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35071	chrY	13711701	.	A	C	195.13	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
35072	chrY	13711707	.	T	A,C	1276.27	my_snp_filter	AC=10,1;AF=0.152,0.015;AN=
35073	chrY	13711708	.	G	T	390.88	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
35074	chrY	13711712	.	T	A	395.91	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
35075	chrY	13711763	.	T	G,*	3946.58	PASS	AC=2,14;AF=0.032,0.226;AN=62;BaseQ
35076	chrY	13711764	.	A	G,*	3961.69	PASS	AC=2,15;AF=0.031,0.234;AN=64;BaseQ
35077	chrY	13711772	.	C	T,*	4521.16	PASS	AC=2,14;AF=0.040,0.280;AN=64;BaseQ
35078	chrY	13711799	.	G	A,*	2024.19	my_snp_filter	AC=4,7;AF=0.059,0.103;AN=
35079	chrY	13711806	.	A	T,*	3296.47	my_snp_filter	AC=7,6;AF=0.100,0.086;AN=
35080	chrY	13711810	.	A	C,*	6534.15	my_snp_filter	AC=16,3;AF=0.229,0.043;AN=
35081	chrY	13711812	.	T	C,*	4029.39	my_snp_filter	AC=11,5;AF=0.157,0.071;AN=
35082	chrY	13711815	.	A	C,*	7705.09	my_snp_filter	AC=15,6;AF=0.214,0.086;AN=
35083	chrY	13711821	.	A	G,*	1422.44	my_snp_filter	AC=2,5;AF=0.029,0.071;AN=
35084	chrY	13711825	.	A	T,C,*	15747.25	my_snp_filter	AC=2,21,2;AF=0.02,0.071,0.071;AN=
35085	chrY	13711834	.	A	G,*	924.40	my_snp_filter	AC=4,4;AF=0.057,0.057;AN=
35086	chrY	13711836	.	A	G	51.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35087	chrY	13711838	.	G	T	50343.41	my_snp_filter	AC=24;AF=0.414;AN=
35088	chrY	13711845	.	A	T	5537.22	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
35089	chrY	13711847	.	T	G	245.16	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35090	chrY	13711849	.	G	A	842.28	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
35091	chrY	13711854	.	G	T,A	1647.23	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
35092	chrY	13711855	.	G	T,A	2473.92	my_snp_filter	AC=3,7;AF=0.043,0.100;AN=
35093	chrY	13711861	.	A	C	2614.73	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
35094	chrY	13711867	.	T	A	31853.80	my_snp_filter	AC=23;AF=0.359;AN=
35095	chrY	13711868	.	A	G	129288.68	my_snp_filter	AC=29;AF=0.453;AN=
35096	chrY	13711873	.	C	A	819.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35097	chrY	13711874	.	A	C	58.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35098	chrY	13711875	.	A	C	23264.91	my_snp_filter	AC=23;AF=0.329;AN=
35099	chrY	13711877	.	T	G	23256.76	my_snp_filter	AC=23;AF=0.329;AN=
35100	chrY	13711882	.	G	A	1422.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35101	chrY	13711890	.	A	G	43.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35102	chrY	13711891	.	A	G	334.81	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35103	chrY	13711897	.	T	C	277.33	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35104	chrY	13711901	.	C	T,G	175437.27	my_snp_filter	AC=30,1;AF=0.455,0.014;AN=
35105	chrY	13711904	.	G	T	846.11	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35106	chrY	13711929	.	T	C	116855.59	my_snp_filter	AC=31;AF=0.443;AN=
35107	chrY	13711938	.	A	G	109000.01	my_snp_filter	AC=31;AF=0.443;AN=
35108	chrY	13711960	.	A	G	18326.70	my_snp_filter	AC=30;AF=0.429;AN=
35109	chrY	13711962	.	T	C	9238.35	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQ
35110	chrY	13711964	.	G	A	1639.46	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
35111	chrY	13711974	.	G	T	594.81	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35112	chrY	13711978	.	C	T	16673.88	my_snp_filter	AC=30;AF=0.429;AN=

35113	chrY	13711998	.	G	A	743.25	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
35114	chrY	13712002	.	T	G	759.53	my_snp_filter	AC=11;AF=0.157;AN=70;Base
35115	chrY	13712013	.	G	T	218.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35116	chrY	13712014	.	G	T	224.87	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35117	chrY	13712026	.	A	T	6080.86	my_snp_filter	AC=30;AF=0.469;AN=64;Base
35118	chrY	13712032	.	C	G	47.83	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
35119	chrY	13712033	.	C	G	5199.77	my_snp_filter	AC=20;AF=0.385;AN=52;Base
35120	chrY	13712039	.	A	C	396.99	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
35121	chrY	13712047	.	T	C	206.40	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
35122	chrY	13712057	.	T	C	656.96	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
35123	chrY	13712078	.	G	A	987.85	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
35124	chrY	13712083	.	T	C	2450.63	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
35125	chrY	13712129	.	G	C	944.60	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
35126	chrY	13712196	.	T	A	1112.94	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
35127	chrY	13712246	.	T	A	418.82	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
35128	chrY	13712262	.	T	A	274.06	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
35129	chrY	13712273	.	G	A	425.75	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35130	chrY	13712288	.	G	C	285.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35131	chrY	13712297	.	G	A	406.86	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
35132	chrY	13712314	.	A	C	1038.62	my_snp_filter	AC=11;AF=0.157;AN=70;Base
35133	chrY	13712330	.	C	A	1816.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35134	chrY	13712332	.	G	A	15166.88	my_snp_filter	AC=25;AF=0.357;AN
35135	chrY	13712340	.	A	G	1289.99	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35136	chrY	13712345	.	T	G	6824.79	my_snp_filter	AC=12;AF=0.171;AN=70;Base
35137	chrY	13712351	.	T	A	425.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35138	chrY	13712357	.	T	G	2139.32	my_snp_filter	AC=19;AF=0.271;AN=70;Base
35139	chrY	13712363	.	A	T	1461.97	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35140	chrY	13712396	.	T	G	297.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35141	chrY	13712403	.	G	C	267.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35142	chrY	13712422	.	G	T	1552.88	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
35143	chrY	13712423	.	T	G	4732.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
35144	chrY	13712427	.	C	G	241.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
35145	chrY	13712439	.	C	A	1727.11	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
35146	chrY	13712442	.	G	C	1341.72	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
35147	chrY	13712448	.	G	T	2422.67	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
35148	chrY	13712461	.	T	C	933.04	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
35149	chrY	13712462	.	G	T	576.15	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
35150	chrY	13712518	.	G	T	157.48	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
35151	chrY	13712537	.	C	G	79.59	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
35152	chrY	13712550	.	T	A	3293.34	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
35153	chrY	13712587	.	T	A	141.02	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35154	chrY	13712611	.	A	G	277.25	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35155	chrY	13712622	.	A	T	1451.87	my_snp_filter	AC=11;AF=0.157;AN=70;Base
35156	chrY	13712635	.	A	C	232.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35157	chrY	13712638	.	T	G	833.77	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
35158	chrY	13712639	.	G	A	450.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35159	chrY	13712647	.	T	C	3247.65	my_snp_filter	AC=12;AF=0.176;AN=68;Base
35160	chrY	13712657	.	G	C	180.69	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
35161	chrY	13712659	.	G	A	7372.09	my_snp_filter	AC=20;AF=0.294;AN=68;Base
35162	chrY	13712661	.	A	T	37.99	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
35163	chrY	13712663	.	A	G	19954.22	my_snp_filter	AC=29;AF=0.483;AN
35164	chrY	13712671	.	C	G	16562.91	my_snp_filter	AC=29;AF=0.518;AN
35165	chrY	13712698	.	G	A	36.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35166	chrY	13712702	.	T	A	1605	my_snp_filter	AC=14;AF=0.200;AN=70;Base
35167	chrY	13712704	.	G	A	331.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35168	chrY	13712752	.	T	A	34416.72	my_snp_filter	AC=35;AF=0.500;AN
35169	chrY	13712767	.	T	A	1122.40	my_snp_filter	AC=12;AF=0.171;AN=70;Base
35170	chrY	13712779	.	A	C	87617.72	my_snp_filter	AC=35;AF=0.500;AN
35171	chrY	13712782	.	T	C	33.87	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35172	chrY	13712803	.	C	G	1056.13	my_snp_filter	AC=13;AF=0.186;AN=70;Base
35173	chrY	13712863	.	C	T,A	3176.06	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
35174	chrY	13712867	.	G	T,A	7048.16	my_snp_filter	AC=2,5;AF=0.083,0.208;AN=
35175	chrY	13712869	.	G	C	3551.51	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
35176	chrY	13712884	.	A	G	5006.54	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35177	chrY	13712902	.	A	T	335.21	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
35178	chrY	13712904	.	G	C	228.67	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
35179	chrY	13712935	.	G	A	90.44	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35180	chrY	13712992	.	C	T	199.07	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
35181	chrY	13713021	.	T	A	3577.52	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
35182	chrY	13713034	.	C	G	651.48	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
35183	chrY	13713038	.	T	G	815.36	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
35184	chrY	13713048	.	C	A	127.76	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
35185	chrY	13713079	.	A	C	36.61	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35186	chrY	13713106	.	A	G	48.02	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35187	chrY	13713111	.	G	A	264.22	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
35188	chrY	13713141	.	C	G,*	3483.68	PASS	AC=8,3;AF=0.148,0.056;AN=54;BaseQ

35189	chrY	13713171	.	A	T	5443.42	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
35190	chrY	13713196	.	T	A	13634.35	my_snp_filter	AC=12;AF=0.429;AN
35191	chrY	13713203	.	A	G	11892.28	my_snp_filter	AC=13;AF=0.464;AN
35192	chrY	13713221	.	C	T	30.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35193	chrY	13713236	.	C	G	49671.55	my_snp_filter	AC=33;AF=0.516;AN
35194	chrY	13713300	.	G	A	96319.13	my_snp_filter	AC=47;AF=0.691;AN
35195	chrY	13713307	.	T	G	130.21	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35196	chrY	13713312	.	A	T	94222.85	my_snp_filter	AC=44;AF=0.647;AN
35197	chrY	13713373	.	G	T	20327.75	my_snp_filter	AC=20;AF=0.357;AN
35198	chrY	13713382	.	C	T	12380.69	my_snp_filter	AC=11;AF=0.177;AN
35199	chrY	13713471	.	G	C	16288.33	my_snp_filter	AC=14;AF=0.280;AN
35200	chrY	13713473	.	G	C	16264.48	my_snp_filter	AC=14;AF=0.250;AN
35201	chrY	13713506	.	T	A	16056.23	my_snp_filter	AC=7;AF=0.146;AN=
35202	chrY	13713529	.	G	C	4231.67	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQ
35203	chrY	13713542	.	G	A	14192.36	my_snp_filter	AC=7;AF=0.175;AN=
35204	chrY	13713552	.	G	A	61.45	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
35205	chrY	13713617	.	G	C	2265.04	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
35206	chrY	13713712	.	C	A,*	1343.50	PASS	AC=4,2;AF=0.182,0.091;AN=22;BaseQ
35207	chrY	13713726	.	T	C	274.52	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
35208	chrY	13714083	.	G	A	804.32	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
35209	chrY	13714094	.	G	C	202.58	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
35210	chrY	13714218	.	A	C	159.53	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
35211	chrY	13714226	.	A	C,T	313.15	PASS	AC=3,4;AF=0.060,0.080;AN=50;BaseQ
35212	chrY	13714254	.	T	A	49.99	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
35213	chrY	13714266	.	G	A	34.39	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
35214	chrY	13714311	.	C	T	275.57	my_snp_filter	AC=6;AF=0.115;AN=52;BaseQ
35215	chrY	13714312	.	C	G	64.74	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
35216	chrY	13714321	.	G	T	71.92	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
35217	chrY	13714535	.	T	A	30.54	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35218	chrY	13714550	.	T	G	161.25	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
35219	chrY	13714605	.	T	G	557.93	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
35220	chrY	13714624	.	T	A	101.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35221	chrY	13714644	.	A	T	100.65	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35222	chrY	13714652	.	T	C	258.89	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
35223	chrY	13714756	.	C	G	45.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
35224	chrY	13714803	.	A	G	293.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
35225	chrY	13714825	.	A	T	3685.76	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
35226	chrY	13714850	.	T	C	180.05	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35227	chrY	13714859	.	A	G	742.64	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
35228	chrY	13714861	.	G	A	745.66	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
35229	chrY	13714882	.	T	A	60.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
35230	chrY	13714896	.	C	T	427.19	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
35231	chrY	13714911	.	A	G	1034.44	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
35232	chrY	13714999	.	C	G	217.98	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQ
35233	chrY	13715004	.	G	A	36.86	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
35234	chrY	13715005	.	T	A	2540.40	my_snp_filter	AC=8;AF=0.235;AN=34;BaseQ
35235	chrY	13715022	.	G	A	43.75	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
35236	chrY	13715058	.	A	G	342.60	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
35237	chrY	13715059	.	C	T	344.90	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
35238	chrY	13715062	.	G	T	47.97	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
35239	chrY	13715082	.	A	C	224.52	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
35240	chrY	13715117	.	T	G	155.29	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
35241	chrY	13715124	.	A	G	34.69	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
35242	chrY	13715146	.	A	G	283.94	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
35243	chrY	13715151	.	C	G	207.02	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
35244	chrY	13715179	.	C	G	55.67	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
35245	chrY	13715417	.	A	G	752.06	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
35246	chrY	13715419	.	A	G	194.33	my_snp_filter	AC=6;AF=0.273;AN=22;BaseQ
35247	chrY	13715592	.	A	G	775.99	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
35248	chrY	13715594	.	T	G	250.55	PASS	AC=2;AF=0.083;AN=24;DP=150;FS=0.0
35249	chrY	13715827	.	G	A	114.10	my_snp_filter	AC=6;AF=0.086;AN=70;DP=35
35250	chrY	13715897	.	G	A	97.26	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35251	chrY	13715937	.	C	T	932.82	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
35252	chrY	13715957	.	T	G	896.12	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
35253	chrY	13715959	.	G	C	896.12	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
35254	chrY	13715981	.	A	G	943.50	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
35255	chrY	13716041	.	C	T	306.94	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
35256	chrY	13716059	.	A	C	553.86	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
35257	chrY	13716078	.	T	C	766.39	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
35258	chrY	13716091	.	A	T	909.21	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
35259	chrY	13716155	.	A	G	2038.69	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35260	chrY	13716167	.	T	A	1965.69	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35261	chrY	13716183	.	A	T	2009.74	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35262	chrY	13716241	.	T	A	685.46	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
35263	chrY	13716266	.	A	T	613.52	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
35264	chrY	13716276	.	T	C	32.79	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ

35265	chrY	13716290	.	C	T	298.86	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
35266	chrY	13716309	.	A	G	89.70	my_snp_filter	AC=2;AF=0.200;AN=10;DP=40
35267	chrY	13716314	.	A	T	132.13	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35268	chrY	13716368	.	G	T	34.23	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35269	chrY	13716382	.	G	A	186.44	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35270	chrY	13716402	.	G	A	164.67	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35271	chrY	13716408	.	G	A	165.21	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35272	chrY	13716422	.	C	T	163.21	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35273	chrY	13716447	.	C	G	232.74	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35274	chrY	13716466	.	T	A	230.31	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35275	chrY	13716467	.	A	G	276.17	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35276	chrY	13716483	.	G	C	36.86	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35277	chrY	13716967	.	G	T	110.85	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
35278	chrY	13717019	.	T	A	33.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35279	chrY	13717064	.	C	T	1412.84	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
35280	chrY	13717070	.	G	C	1487.26	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
35281	chrY	13717115	.	G	C	58.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35282	chrY	13717126	.	G	C	48.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
35283	chrY	13717152	.	A	C	36.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
35284	chrY	13717336	.	A	C	213.53	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
35285	chrY	13717337	.	A	C	58.55	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
35286	chrY	13717344	.	C	T	106.03	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
35287	chrY	13717386	.	G	T	285.15	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
35288	chrY	13717458	.	C	T	1454.11	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
35289	chrY	13717473	.	G	T	231.93	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
35290	chrY	13717500	.	G	T	15997.07	PASS	AC=66;AF=1.00;AN=66;DP=50
35291	chrY	13717501	.	T	C	1271.71	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
35292	chrY	13717554	.	T	A	41.92	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35293	chrY	13717676	.	G	A	1404.11	my_snp_filter	AC=15;AF=0.268;AN=56;BaseQ
35294	chrY	13717726	.	A	G	12600.02	my_snp_filter	AC=32;AF=0.533;AN=
35295	chrY	13717734	.	G	C	14136.98	my_snp_filter	AC=31;AF=0.554;AN=
35296	chrY	13717757	.	T	A	26103.54	my_snp_filter	AC=30;AF=0.500;AN=
35297	chrY	13717777	.	G	C	29704.34	my_snp_filter	AC=29;AF=0.483;AN=
35298	chrY	13717780	.	A	G	29290.31	my_snp_filter	AC=29;AF=0.483;AN=
35299	chrY	13717802	.	A	C	33.73	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35300	chrY	13717809	.	C	A	36.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35301	chrY	13717810	.	G	T	36.88	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35302	chrY	13717813	.	T	A,C	19041.83	my_snp_filter	AC=8,36;AF=0.114,AN=
35303	chrY	13717834	.	C	G	1873.90	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
35304	chrY	13717866	.	G	A	5239	PASS	AC=35;AF=0.515;AN=68;BaseQRankSum=
35305	chrY	13717897	.	C	A	2208.83	my_snp_filter	AC=14;AF=0.241;AN=58;BaseQ
35306	chrY	13717899	.	G	A	2204.59	my_snp_filter	AC=14;AF=0.241;AN=58;BaseQ
35307	chrY	13717904	.	G	A	845.31	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
35308	chrY	13717907	.	A	G	131.08	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
35309	chrY	13717912	.	T	G	219.46	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
35310	chrY	13717914	.	A	G	1713.65	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
35311	chrY	13717930	.	A	T	92.67	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
35312	chrY	13717955	.	G	C	114.45	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35313	chrY	13717960	.	G	T	126.41	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35314	chrY	13717982	.	G	T	517.85	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35315	chrY	13717994	.	C	G	9913.13	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
35316	chrY	13717997	.	A	T	336.82	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
35317	chrY	13717998	.	T	C	1600.22	my_snp_filter	AC=12;AF=0.188;AN=64;BaseQ
35318	chrY	13718005	.	G	A	596.45	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
35319	chrY	13718006	.	C	A	9789.07	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQ
35320	chrY	13718009	.	G	C	601.46	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
35321	chrY	13718015	.	G	T	17144.48	my_snp_filter	AC=16;AF=0.286;AN=
35322	chrY	13718028	.	T	C	9333.48	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
35323	chrY	13718030	.	G	C	743.19	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
35324	chrY	13718034	.	G	A	49.14	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
35325	chrY	13718085	.	G	T	565.86	my_snp_filter	AC=10;AF=0.156;AN=64;BaseQ
35326	chrY	13718088	.	T	C	721.36	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
35327	chrY	13718117	.	T	A	40.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35328	chrY	13718214	.	T	C	741.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
35329	chrY	13718219	.	A	T	1940.41	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
35330	chrY	13718226	.	G	A	1490.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
35331	chrY	13718232	.	A	C	72.78	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35332	chrY	13718238	.	C	G	2486.30	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
35333	chrY	13718246	.	G	C	1207.94	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
35334	chrY	13718252	.	A	G	291.71	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35335	chrY	13718261	.	G	A	5170.94	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQ
35336	chrY	13718265	.	G	A	30.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35337	chrY	13718269	.	T	A	58.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35338	chrY	13718270	.	C	T	45.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35339	chrY	13718271	.	G	A	59.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35340	chrY	13718274	.	C	G	975.36	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ

35341	chrY	13718284	.	T	C	1503.81	my_snp_filter	AC=19;AF=0.279;AN=68;BaseQ
35342	chrY	13718288	.	G	T	458.38	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
35343	chrY	13718297	.	A	C	516.80	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
35344	chrY	13718304	.	T	A,*	2037.16	my_snp_filter	AC=12,5;AF=0.182,0.076;AN
35345	chrY	13718311	.	G	A,*	1433.04	my_snp_filter	AC=6,9;AF=0.088,0.132;AN=
35346	chrY	13718319	.	T	A	5802.76	my_snp_filter	AC=22;AF=0.333;AN=66;BaseQ
35347	chrY	13718346	.	A	C	18200.70	my_snp_filter	AC=29;AF=0.453;AN
35348	chrY	13718365	.	A	G	34690.63	my_snp_filter	AC=45;AF=0.682;AN
35349	chrY	13718373	.	A	G	73.77	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35350	chrY	13718399	.	T	G	200.95	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35351	chrY	13718407	.	A	G	270.85	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35352	chrY	13718409	.	T	G	274.11	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35353	chrY	13718411	.	G	T	54.64	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35354	chrY	13718424	.	G	T	31357.57	my_snp_filter	AC=33;AF=0.516;AN
35355	chrY	13718434	.	G	C,T	18302.76	my_snp_filter	AC=19,16;AF=0.288
35356	chrY	13718436	.	G	C	5974.79	my_snp_filter	AC=16;AF=0.250;AN=64;BaseQ
35357	chrY	13718441	.	G	C	72.59	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35358	chrY	13718451	.	A	G	20761.20	my_snp_filter	AC=17;AF=0.274;AN
35359	chrY	13718471	.	G	C	920.22	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
35360	chrY	13718490	.	G	C	124.65	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
35361	chrY	13718495	.	C	A,T	290.53	my_snp_filter	AC=4,3;AF=0.061,0.045;AN=
35362	chrY	13718506	.	G	C	64.64	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35363	chrY	13718507	.	A	C	149.69	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35364	chrY	13718534	.	C	T	205.59	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35365	chrY	13718538	.	A	C	5751.12	my_snp_filter	AC=30;AF=0.536;AN=56;BaseQ
35366	chrY	13718564	.	T	A	97.28	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
35367	chrY	13718567	.	A	G	86.64	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35368	chrY	13718574	.	A	T	444.75	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
35369	chrY	13718576	.	C	G	443.38	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
35370	chrY	13718590	.	G	A	101	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
35371	chrY	13718619	.	A	T	4995.98	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
35372	chrY	13718624	.	C	T	513.31	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
35373	chrY	13718650	.	A	C	1893.09	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
35374	chrY	13718664	.	A	T,C	1518.17	PASS	AC=6,3;AF=0.188,0.094;AN=32;BaseQ
35375	chrY	13718687	.	A	C	479.33	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
35376	chrY	13718695	.	C	G	419.10	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
35377	chrY	13718706	.	G	T,*	6069.57	PASS	AC=17,3;AF=0.274,0.048;AN=62;BaseQ
35378	chrY	13718723	.	A	G	41.22	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
35379	chrY	13718739	.	T	A	1340.78	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
35380	chrY	13718756	.	C	T	446.39	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
35381	chrY	13718760	.	G	A	816.99	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35382	chrY	13718773	.	C	G,A	63398.16	PASS	AC=50,6;AF=0.714,0.086;AN
35383	chrY	13718774	.	T	C	1698.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
35384	chrY	13718775	.	G	A	1842.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
35385	chrY	13718776	.	G	A	661.94	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
35386	chrY	13718781	.	A	G	23578	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
35387	chrY	13718784	.	T	A	1647.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
35388	chrY	13718785	.	G	T	1507.48	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
35389	chrY	13718788	.	A	T	934.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
35390	chrY	13718813	.	T	A	40577.54	PASS	AC=33;AF=0.485;AN=68;BaseQ
35391	chrY	13718820	.	A	G	41655.52	PASS	AC=33;AF=0.485;AN=68;BaseQ
35392	chrY	13718849	.	T	C	1615.11	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
35393	chrY	13718853	.	C	G	429.94	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35394	chrY	13718854	.	T	A	1537.13	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
35395	chrY	13718855	.	C	T	259.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35396	chrY	13718856	.	G	A	48.69	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35397	chrY	13718864	.	T	C	2190.09	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
35398	chrY	13718874	.	C	G	444.52	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35399	chrY	13718885	.	C	G	5248.18	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
35400	chrY	13718889	.	T	A	335.09	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35401	chrY	13718902	.	G	A	61712.73	PASS	AC=33;AF=0.471;AN=70;BaseQ
35402	chrY	13718903	.	A	C	81.31	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35403	chrY	13718914	.	A	T	58666.73	PASS	AC=33;AF=0.471;AN=70;BaseQ
35404	chrY	13718932	.	A	G	85.27	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35405	chrY	13718935	.	G	A	7089.30	my_snp_filter	AC=20;AF=0.286;AN=70;BaseQ
35406	chrY	13718942	.	C	T	66.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35407	chrY	13718960	.	C	G	1172.12	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
35408	chrY	13718970	.	G	C	112.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
35409	chrY	13718972	.	A	C	93.47	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35410	chrY	13718973	.	A	G	94.59	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35411	chrY	13718975	.	G	T	41234.24	my_snp_filter	AC=30;AF=0.429;AN
35412	chrY	13718984	.	G	T	38956.21	my_snp_filter	AC=29;AF=0.414;AN
35413	chrY	13719000	.	G	T	88.25	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35414	chrY	13719053	.	A	T	110.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35415	chrY	13719069	.	G	T,A	41092.40	my_snp_filter	AC=9,4;AF=0.150,0
35416	chrY	13719073	.	G	C	50125.59	my_snp_filter	AC=9;AF=0.150;AN=

35417	chrY	13719075	.	G	C	51071.72	my_snp_filter	AC=9;AF=0.141;AN=
35418	chrY	13719077	.	A	G	64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35419	chrY	13719087	.	A	G	3666.93	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35420	chrY	13719107	.	A	C	34.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
35421	chrY	13719109	.	T	C	81.95	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35422	chrY	13719110	.	G	A	34.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
35423	chrY	13719131	.	G	C	8110.20	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
35424	chrY	13719136	.	T	G	224221.33	my_snp_filter	AC=53;AF=0.855;AN=
35425	chrY	13719144	.	T	A	95776.33	my_snp_filter	AC=23;AF=0.359;AN=
35426	chrY	13719147	.	A	G	37.40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
35427	chrY	13719201	.	G	A	2688.07	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
35428	chrY	13719220	.	G	C	122256.44	my_snp_filter	AC=19;AF=0.413;AN=
35429	chrY	13719222	.	G	C	4136.14	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
35430	chrY	13719245	.	G	T	705.71	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35431	chrY	13719265	.	G	T	11615.79	my_snp_filter	AC=6;AF=0.176;AN=
35432	chrY	13719273	.	T	C	12532.23	my_snp_filter	AC=6;AF=0.167;AN=
35433	chrY	13719285	.	A	C	13525.53	my_snp_filter	AC=7;AF=0.206;AN=
35434	chrY	13719293	.	T	C	7717.71	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
35435	chrY	13719313	.	T	A	10533.52	my_snp_filter	AC=6;AF=0.200;AN=
35436	chrY	13719315	.	C	G	135123.24	my_snp_filter	AC=16;AF=0.800;AN=
35437	chrY	13719318	.	C	G	7791.64	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
35438	chrY	13719330	.	A	C	9620.52	my_snp_filter	AC=6;AF=0.176;AN=34;BaseQ
35439	chrY	13719395	.	T	A	83372.60	my_snp_filter	AC=21;AF=0.525;AN=
35440	chrY	13719475	.	G	T	53.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35441	chrY	13719476	.	G	T	43.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35442	chrY	13719484	.	T	G	164.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35443	chrY	13719489	.	A	T	95649.85	my_snp_filter	AC=29;AF=0.483;AN=
35444	chrY	13719490	.	T	A	250921.73	my_snp_filter	AC=40;AF=0.645;AN=
35445	chrY	13719506	.	A	G	84.20	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
35446	chrY	13719508	.	T	G	103.47	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
35447	chrY	13719510	.	T	C	13395.61	my_snp_filter	AC=18;AF=0.257;AN=
35448	chrY	13719524	.	C	T	1625.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35449	chrY	13719557	.	T	A	3902.81	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
35450	chrY	13719565	.	T	A	157108.15	my_snp_filter	AC=52;AF=0.839;AN=
35451	chrY	13719589	.	G	C	46.49	my_snp_filter	AC=2;AF=0.030;AN=66;DP=44
35452	chrY	13719595	.	A	T	5889.53	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
35453	chrY	13719616	.	A	G	7478.97	my_snp_filter	AC=12;AF=0.188;AN=64;BaseQ
35454	chrY	13719631	.	C	T	3123.13	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
35455	chrY	13719652	.	T	G	109.60	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
35456	chrY	13719690	.	G	A	32471.02	my_snp_filter	AC=21;AF=0.618;AN=
35457	chrY	13719701	.	G	C	4830.51	my_snp_filter	AC=7;AF=0.194;AN=36;BaseQ
35458	chrY	13719733	.	T	G	9021.37	my_snp_filter	AC=7;AF=0.250;AN=28;BaseQ
35459	chrY	13719751	.	C	A	921.64	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
35460	chrY	13719765	.	A	C	11184.40	my_snp_filter	AC=7;AF=0.194;AN=
35461	chrY	13719766	.	C	G	738.43	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
35462	chrY	13719768	.	C	T	656.48	my_snp_filter	AC=5;AF=0.132;AN=38;BaseQ
35463	chrY	13719769	.	G	A	978.42	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
35464	chrY	13719772	.	A	T	31253.73	my_snp_filter	AC=7;AF=0.350;AN=
35465	chrY	13719783	.	C	G	4859.41	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
35466	chrY	13719788	.	A	G	228.78	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
35467	chrY	13719814	.	A	C	3449.68	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35468	chrY	13719843	.	G	A	3878.12	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35469	chrY	13719846	.	T	A	4296.12	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35470	chrY	13719848	.	G	A	4029.12	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35471	chrY	13719861	.	T	A	4274.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35472	chrY	13719863	.	G	A	4066.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35473	chrY	13719866	.	T	A	9296.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35474	chrY	13719894	.	A	T	2047.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35475	chrY	13719905	.	A	C	312.47	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35476	chrY	13719918	.	C	T	333.22	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35477	chrY	13719926	.	C	G	46.11	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
35478	chrY	13719977	.	T	G	122.53	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35479	chrY	13720002	.	G	A	93.41	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35480	chrY	13720020	.	A	T	244.86	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35481	chrY	13720142	.	T	A	144.27	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
35482	chrY	13720171	.	T	G	53.27	PASS	AC=2;AF=0.031;AN=64;DP=228;FS=0.0
35483	chrY	13720429	.	G	T	219.09	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
35484	chrY	13720439	.	G	C	44.71	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
35485	chrY	13720471	.	A	C	33.29	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35486	chrY	13720502	.	T	A	409.51	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
35487	chrY	13720524	.	G	C	938.83	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
35488	chrY	13720548	.	G	A	94.72	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
35489	chrY	13720553	.	T	G	569.72	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
35490	chrY	13720554	.	C	G	569.72	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
35491	chrY	13720564	.	T	G,C	1131.90	my_snp_filter	AC=3,5;AF=0.100,0.167;AN=
35492	chrY	13720565	.	A	G	51.76	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ

35493	chrY	13720576	.	C	A	147.75	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
35494	chrY	13720652	.	T	A	603.59	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQ
35495	chrY	13720665	.	A	G	754.19	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
35496	chrY	13720666	.	C	T	674.03	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
35497	chrY	13720689	.	C	A	2125.83	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
35498	chrY	13720721	.	A	C	301.05	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
35499	chrY	13720724	.	T	G,A	526.47	PASS	AC=1,2;AF=0.019,0.037;AN=54;BaseQ
35500	chrY	13720731	.	A	G	389.03	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
35501	chrY	13720732	.	T	A	548.87	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
35502	chrY	13720737	.	T	A	153.27	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
35503	chrY	13720752	.	T	C	855.37	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
35504	chrY	13720753	.	A	G	1961.19	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
35505	chrY	13720757	.	C	T	126.82	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
35506	chrY	13720758	.	C	G	1318.01	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQ
35507	chrY	13720760	.	A	C	927.76	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
35508	chrY	13720770	.	G	T	143.49	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
35509	chrY	13720780	.	G	A	4588	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
35510	chrY	13720786	.	C	T,G	2858.09	my_snp_filter	AC=11,3;AF=0.212,0.058;AN=
35511	chrY	13720807	.	G	T	1556.67	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
35512	chrY	13720808	.	G	T	1541.64	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
35513	chrY	13720809	.	A	T	293.47	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35514	chrY	13720818	.	T	G	5215.92	my_snp_filter	AC=16;AF=0.286;AN=56;BaseQ
35515	chrY	13720825	.	A	T	4421.42	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
35516	chrY	13720826	.	C	T	14383.45	my_snp_filter	AC=17;AF=0.304;AN=
35517	chrY	13720827	.	A	T	14415.36	my_snp_filter	AC=17;AF=0.304;AN=
35518	chrY	13720850	.	A	G	4840.22	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
35519	chrY	13720852	.	T	C	28072.02	my_snp_filter	AC=30;AF=0.536;AN=
35520	chrY	13720858	.	G	T	221.41	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
35521	chrY	13720863	.	G	A	938.78	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
35522	chrY	13720877	.	C	A	11690.45	my_snp_filter	AC=16;AF=0.320;AN=
35523	chrY	13720892	.	G	A	2288.90	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
35524	chrY	13720933	.	A	C	402.74	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35525	chrY	13720957	.	T	G	3955.89	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
35526	chrY	13720958	.	T	G	3878.89	PASS	AC=7;AF=0.206;AN=34;BaseQRankSum=
35527	chrY	13721017	.	G	A	188.48	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
35528	chrY	13721021	.	A	T	241.49	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
35529	chrY	13721034	.	A	G	1591.11	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
35530	chrY	13721052	.	A	C	122.59	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35531	chrY	13721055	.	T	A	3640.31	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQ
35532	chrY	13721065	.	A	G	325.73	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35533	chrY	13721069	.	A	G	8027	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQ
35534	chrY	13721100	.	C	G	466.35	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
35535	chrY	13721146	.	G	A	233.32	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
35536	chrY	13721173	.	T	A	10351.89	my_snp_filter	AC=7;AF=0.350;AN=
35537	chrY	13721254	.	A	G	1155.56	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
35538	chrY	13721260	.	C	A	1306.12	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
35539	chrY	13721269	.	A	G	1474.19	my_snp_filter	AC=4;AF=0.125;AN=32;BaseQ
35540	chrY	13721271	.	G	T	39.04	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
35541	chrY	13721292	.	A	T	1464.48	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
35542	chrY	13721331	.	T	G	347.92	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
35543	chrY	13721344	.	G	A	17797.54	my_snp_filter	AC=8;AF=0.133;AN=
35544	chrY	13721356	.	A	G	25808.76	my_snp_filter	AC=9;AF=0.150;AN=
35545	chrY	13721405	.	T	A	71.84	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
35546	chrY	13721441	.	C	G	367.21	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
35547	chrY	13721455	.	G	T	95.36	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35548	chrY	13721459	.	A	G	92.02	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
35549	chrY	13721504	.	G	A	529.16	my_snp_filter	AC=7;AF=0.159;AN=44;BaseQ
35550	chrY	13721544	.	C	T	113.39	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
35551	chrY	13721624	.	G	A	387.94	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35552	chrY	13721646	.	G	C	74.02	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35553	chrY	13721647	.	A	C	74.10	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35554	chrY	13721666	.	A	C	319.60	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35555	chrY	13721672	.	T	A	114.75	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35556	chrY	13721685	.	T	C	322.62	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35557	chrY	13721692	.	A	C	182.33	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35558	chrY	13721698	.	A	T	801.62	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
35559	chrY	13721703	.	T	G	296.27	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
35560	chrY	13721732	.	A	T	660.28	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35561	chrY	13721762	.	A	G	183.58	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
35562	chrY	13721774	.	T	A	151.15	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
35563	chrY	13721790	.	A	T	73.35	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
35564	chrY	13721873	.	A	T	227.82	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
35565	chrY	13721883	.	T	C	255.39	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
35566	chrY	13721929	.	C	G	165.44	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
35567	chrY	13721947	.	A	G	1000.21	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35568	chrY	13721950	.	G	C	38.28	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ

35569	chrY	13721953	.	A	G	105.25	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35570	chrY	13722004	.	G	A	5036.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35571	chrY	13722008	.	C	T	2947.41	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35572	chrY	13722009	.	G	A	146.59	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35573	chrY	13722054	.	C	G	3931.12	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35574	chrY	13722065	.	G	A	138.94	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35575	chrY	13722069	.	G	A	102.53	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35576	chrY	13722073	.	T	A	228.27	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35577	chrY	13722074	.	A	G	5105.43	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35578	chrY	13722121	.	A	T	348.76	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
35579	chrY	13722144	.	A	G	723.01	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
35580	chrY	13722195	.	C	A	442.13	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35581	chrY	13722246	.	A	G	290.50	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
35582	chrY	13722254	.	C	G	10029.83	my_snp_filter	AC=11;AF=0.344;AN=
35583	chrY	13722276	.	G	A	10120	my_snp_filter	AC=14;AF=0.350;AN=40;Base
35584	chrY	13722278	.	G	A	112.54	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
35585	chrY	13722288	.	C	T	198.12	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35586	chrY	13722291	.	A	T	2185.95	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
35587	chrY	13722326	.	A	G	93.07	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35588	chrY	13722333	.	G	T	175.58	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
35589	chrY	13722338	.	C	G	138.49	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
35590	chrY	13722351	.	A	G	141.65	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
35591	chrY	13722354	.	G	A	49.41	my_snp_filter	AC=2;AF=0.031;AN=64;DP=81
35592	chrY	13722357	.	T	A	48.12	my_snp_filter	AC=2;AF=0.031;AN=64;DP=80
35593	chrY	13722363	.	G	T	74.51	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
35594	chrY	13722364	.	G	T	74.51	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
35595	chrY	13722367	.	C	T	48.60	my_snp_filter	AC=2;AF=0.032;AN=62;DP=72
35596	chrY	13722368	.	G	C	48.05	my_snp_filter	AC=2;AF=0.032;AN=62;DP=71
35597	chrY	13722371	.	T	A	48.18	my_snp_filter	AC=2;AF=0.032;AN=62;DP=71
35598	chrY	13722374	.	G	T	171.15	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
35599	chrY	13722377	.	T	C	173.87	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
35600	chrY	13722390	.	A	C	57.02	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
35601	chrY	13722394	.	A	G	459.38	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
35602	chrY	13722400	.	A	G	63.16	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
35603	chrY	13722412	.	T	A	223.78	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
35604	chrY	13722413	.	A	G	236.49	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQ
35605	chrY	13722417	.	T	A	386.98	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
35606	chrY	13722420	.	C	A	197.39	my_snp_filter	AC=6;AF=0.136;AN=44;BaseQ
35607	chrY	13722424	.	G	A	46.45	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
35608	chrY	13722427	.	A	T	1113.04	my_snp_filter	AC=12;AF=0.375;AN=32;Base
35609	chrY	13722437	.	T	C	231.11	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
35610	chrY	13722448	.	G	A	50.09	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
35611	chrY	13722474	.	T	G	220.38	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
35612	chrY	13722492	.	T	A	201.50	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
35613	chrY	13722572	.	C	T	1411.37	my_snp_filter	AC=10;AF=0.200;AN=50;Base
35614	chrY	13722643	.	A	G	1638.32	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
35615	chrY	13722651	.	A	T	4656.81	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
35616	chrY	13722652	.	C	G	5101.56	my_snp_filter	AC=9;AF=0.180;AN=50;BaseQ
35617	chrY	13722655	.	G	A	110.27	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
35618	chrY	13722664	.	A	C	465.68	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
35619	chrY	13722703	.	G	T	201.81	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
35620	chrY	13722716	.	A	T	120.90	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35621	chrY	13722717	.	G	C	16183.36	my_snp_filter	AC=31;AF=0.470;AN=
35622	chrY	13722728	.	G	C	1244.64	my_snp_filter	AC=15;AF=0.221;AN=68;Base
35623	chrY	13722732	.	G	A	413.04	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
35624	chrY	13722735	.	A	G	10936.11	my_snp_filter	AC=26;AF=0.382;AN=
35625	chrY	13722756	.	T	C	66.25	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
35626	chrY	13722761	.	C	A	31.10	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
35627	chrY	13722767	.	G	T	64.10	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
35628	chrY	13722790	.	G	A	14677.88	my_snp_filter	AC=15;AF=0.417;AN=
35629	chrY	13722810	.	T	A	20109.71	my_snp_filter	AC=39;AF=0.609;AN=
35630	chrY	13722815	.	A	T	7252.05	my_snp_filter	AC=13;AF=0.210;AN=62;Base
35631	chrY	13722831	.	T	A	194.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35632	chrY	13722843	.	G	A	7144.30	my_snp_filter	AC=13;AF=0.224;AN=58;Base
35633	chrY	13722852	.	C	G,*	12865.72	my_snp_filter	AC=12,1;AF=0.333,AN=
35634	chrY	13722859	.	A	T	363.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35635	chrY	13722865	.	A	C	444.86	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35636	chrY	13722868	.	A	T	78.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35637	chrY	13722871	.	T	A	207.86	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35638	chrY	13722901	.	T	A	771.41	my_snp_filter	AC=10;AF=0.172;AN=58;Base
35639	chrY	13722920	.	A	T	126.55	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
35640	chrY	13722937	.	T	G,*	1866.84	PASS	AC=10,3;AF=0.313,0.094;AN=32;Base
35641	chrY	13722943	.	T	G,*	1264.09	PASS	AC=5,3;AF=0.132,0.079;AN=38;BaseQ
35642	chrY	13722944	.	C	G,*	355.69	my_snp_filter	AC=1,2;AF=0.033,0.067;AN=
35643	chrY	13722959	.	C	A	340.94	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
35644	chrY	13722969	.	A	C,*	920.84	my_snp_filter	AC=4,2;AF=0.083,0.042;AN=

35645	chrY	13722971	.	T	C	178.52	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
35646	chrY	13722974	.	A	C,*	696.19	my_snp_filter	AC=2,2;AF=0.048,0.048;AN=
35647	chrY	13722984	.	A	C,T	1412.22	my_snp_filter	AC=4,1;AF=0.087,0.022;AN=
35648	chrY	13722988	.	G	C	135.24	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
35649	chrY	13722997	.	G	T	309.03	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
35650	chrY	13723006	.	T	G	174.42	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
35651	chrY	13723009	.	G	A	135.42	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
35652	chrY	13723013	.	G	T	72.56	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
35653	chrY	13723014	.	G	T	89.15	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
35654	chrY	13723015	.	C	T	94.04	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
35655	chrY	13723022	.	G	C	40.17	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
35656	chrY	13723026	.	T	A	142.36	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
35657	chrY	13723027	.	A	G	1085.54	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
35658	chrY	13723047	.	C	G	267.25	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
35659	chrY	13723050	.	A	G	102.49	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
35660	chrY	13723051	.	G	T	2901.20	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQ
35661	chrY	13723060	.	G	T	3048.30	my_snp_filter	AC=6;AF=0.167;AN=36;BaseQ
35662	chrY	13723063	.	G	T	2463.24	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
35663	chrY	13723088	.	T	C	143.30	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
35664	chrY	13723097	.	A	G	168.20	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
35665	chrY	13723113	.	G	T	225.29	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35666	chrY	13723114	.	A	T	147.32	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35667	chrY	13723116	.	T	C	147.93	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
35668	chrY	13723119	.	A	G	4070.30	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
35669	chrY	13723125	.	A	G	415.21	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
35670	chrY	13723127	.	G	A	4011.17	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
35671	chrY	13723132	.	G	T	93.24	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
35672	chrY	13723163	.	G	C	367.38	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35673	chrY	13723165	.	A	C	361.89	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35674	chrY	13723167	.	G	T	5203.94	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
35675	chrY	13723168	.	G	T	5173.94	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
35676	chrY	13723171	.	T	A	80.23	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35677	chrY	13723175	.	G	A	251.06	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
35678	chrY	13723180	.	A	T	29187.53	my_snp_filter	AC=25;AF=0.463;AN=
35679	chrY	13723193	.	A	C	889.27	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
35680	chrY	13723201	.	T	C	936.69	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
35681	chrY	13723210	.	A	C	756.85	my_snp_filter	AC=12;AF=0.182;AN=66;BaseQ
35682	chrY	13723215	.	A	C	95.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35683	chrY	13723226	.	T	A	131.56	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35684	chrY	13723233	.	G	A	4441.65	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
35685	chrY	13723256	.	T	C	410	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
35686	chrY	13723279	.	A	C	389.12	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
35687	chrY	13723305	.	T	C	111.91	my_snp_filter	AC=4;AF=0.143;AN=28;DP=41
35688	chrY	13723308	.	A	G	5399.82	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
35689	chrY	13723316	.	G	C	5583.59	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
35690	chrY	13723324	.	A	C	184.35	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
35691	chrY	13723329	.	G	A,C	6381.67	my_snp_filter	AC=7,11;AF=0.389,0.611;AN=
35692	chrY	13723330	.	G	A	184.52	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
35693	chrY	13723339	.	T	A	6851.29	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
35694	chrY	13723344	.	C	G,A	516.94	my_snp_filter	AC=3,1;AF=0.060,0.020;AN=
35695	chrY	13723348	.	T	C	298.30	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
35696	chrY	13723359	.	G	C	8227.25	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
35697	chrY	13723362	.	A	G	9460.28	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
35698	chrY	13723383	.	A	T	34.37	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
35699	chrY	13723392	.	G	A	37.60	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
35700	chrY	13723395	.	T	C	247.39	my_snp_filter	AC=6;AF=0.130;AN=46;BaseQ
35701	chrY	13723407	.	C	G	88.70	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35702	chrY	13723409	.	A	G	62.94	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35703	chrY	13723417	.	G	A	1618.10	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
35704	chrY	13723432	.	G	C	114.39	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
35705	chrY	13723479	.	C	A	332.29	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35706	chrY	13723481	.	G	A	9495.29	my_snp_filter	AC=12;AF=0.857;AN=14;BaseQ
35707	chrY	13723486	.	G	A	1735.90	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
35708	chrY	13723494	.	T	G	379.88	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
35709	chrY	13723525	.	T	A	59.31	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
35710	chrY	13723545	.	T	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=60;F
35711	chrY	13723552	.	G	C	66.69	my_snp_filter	AC=2;AF=0.500;AN=4;DP=54;
35712	chrY	13724680	.	G	C	96.43	my_snp_filter	AC=5;AF=0.417;AN=12;BaseQ
35713	chrY	13724682	.	G	C	96.43	my_snp_filter	AC=5;AF=0.417;AN=12;BaseQ
35714	chrY	13724757	.	G	A	57.91	my_snp_filter	AC=2;AF=0.143;AN=14;DP=33
35715	chrY	13724765	.	C	T	56.39	my_snp_filter	AC=2;AF=0.143;AN=14;DP=32
35716	chrY	13724771	.	G	T	51.52	my_snp_filter	AC=1;AF=0.056;AN=18;DP=35
35717	chrY	13724780	.	A	T	51.21	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
35718	chrY	13725117	.	T	G	79.88	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35719	chrY	13725119	.	A	T	78.93	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35720	chrY	13725131	.	C	G	93.86	my_snp_filter	AC=1;AF=0.500;AN=2;BaseQR

35721	chrY	13725554	.	G	T	47.81	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
35722	chrY	13725557	.	T	A	44.71	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35723	chrY	13725609	.	G	A	83.67	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35724	chrY	13725688	.	C	T	5203.87	my_snp_filter	AC=14;AF=1.00;AN=14;BaseQ
35725	chrY	13725749	.	T	A	8565.38	my_snp_filter	AC=12;AF=0.750;AN=16;BaseQ
35726	chrY	13725750	.	T	C	663.45	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
35727	chrY	13725778	.	G	T	7582.38	my_snp_filter	AC=12;AF=0.750;AN=16;BaseQ
35728	chrY	13725801	.	A	C	746.20	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35729	chrY	13725819	.	T	G	13417.23	my_snp_filter	AC=12;AF=0.750;AN=
35730	chrY	13725833	.	T	A	537.71	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35731	chrY	13725835	.	G	A	220.78	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
35732	chrY	13725838	.	T	A	152.08	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
35733	chrY	13725840	.	A	G	15672.11	my_snp_filter	AC=13;AF=0.929;AN=
35734	chrY	13725857	.	T	A	13945.17	my_snp_filter	AC=14;AF=1.00;AN=
35735	chrY	13725858	.	A	T	91.80	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
35736	chrY	13725860	.	G	A	260.63	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
35737	chrY	13725866	.	T	C,A	13946.63	my_snp_filter	AC=14,4;AF=0.778,
35738	chrY	13725868	.	C	A	78.60	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
35739	chrY	13725885	.	T	C	1728	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
35740	chrY	13725888	.	T	G	404.27	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
35741	chrY	13725909	.	G	C	20143.12	my_snp_filter	AC=38;AF=0.594;AN=
35742	chrY	13725923	.	T	A	265.46	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35743	chrY	13725936	.	A	C	743.29	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
35744	chrY	13725939	.	A	T	290.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35745	chrY	13725956	.	G	A	21182.63	my_snp_filter	AC=31;AF=0.470;AN=
35746	chrY	13725970	.	C	G	22669.24	my_snp_filter	AC=32;AF=0.457;AN=
35747	chrY	13725973	.	A	T	90.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
35748	chrY	13725974	.	C	A,T	40105.33	my_snp_filter	AC=7,34;AF=0.103,
35749	chrY	13725975	.	G	A	92.85	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35750	chrY	13725979	.	C	G	11265.67	my_snp_filter	AC=30;AF=0.429;AN=
35751	chrY	13725984	.	T	A	438.19	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
35752	chrY	13725986	.	G	T	1138.82	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
35753	chrY	13725990	.	G	T	66.92	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35754	chrY	13725991	.	G	T	210.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35755	chrY	13725996	.	G	T	402.77	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
35756	chrY	13725997	.	T	A	2880.10	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
35757	chrY	13726009	.	C	G	98208.35	my_snp_filter	AC=68;AF=0.971;AN=
35758	chrY	13726023	.	C	T	70013.74	my_snp_filter	AC=41;AF=0.586;AN=
35759	chrY	13726057	.	A	G	926.52	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
35760	chrY	13726074	.	T	A	53508.98	PASS	AC=36;AF=0.514;AN=70;BaseQ
35761	chrY	13726085	.	G	A	5207.95	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
35762	chrY	13726089	.	T	C	7036.26	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
35763	chrY	13726092	.	A	G	346.19	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
35764	chrY	13726099	.	T	A	34.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
35765	chrY	13726101	.	G	A	12617.76	PASS	AC=22;AF=0.314;AN=70;BaseQ
35766	chrY	13726121	.	G	C	152.30	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
35767	chrY	13726129	.	C	G	26840.64	PASS	AC=40;AF=0.625;AN=64;BaseQ
35768	chrY	13726143	.	A	G	81.54	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
35769	chrY	13726146	.	G	A	32.43	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
35770	chrY	13726149	.	T	C	97.13	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
35771	chrY	13726154	.	C	G	68.39	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35772	chrY	13726203	.	C	G	3568.18	my_snp_filter	AC=9;AF=0.250;AN=36;BaseQ
35773	chrY	13726209	.	T	A	20746.57	my_snp_filter	AC=16;AF=0.615;AN=
35774	chrY	13726226	.	G	C	765.38	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
35775	chrY	13726249	.	T	A	1453.83	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
35776	chrY	13726251	.	G	T	138.65	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
35777	chrY	13726295	.	G	C	30158.86	my_snp_filter	AC=14;AF=1.00;AN=
35778	chrY	13726318	.	A	C	53.67	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35779	chrY	13726321	.	T	A	58.50	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35780	chrY	13726326	.	G	C	3284.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35781	chrY	13726355	.	C	G	13387.38	my_snp_filter	AC=7;AF=0.500;AN=
35782	chrY	13726357	.	A	G,*	1463.23	my_snp_filter	AC=1,2;AF=0.063,0.125;AN=
35783	chrY	13726368	.	T	C	181.98	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35784	chrY	13726383	.	C	G	15782.81	my_snp_filter	AC=16;AF=1.00;AN=
35785	chrY	13726406	.	A	T	395.20	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35786	chrY	13726423	.	C	T	7225.47	my_snp_filter	AC=8;AF=0.800;AN=10;DP=32
35787	chrY	13726424	.	A	T	7309.69	my_snp_filter	AC=8;AF=0.800;AN=10;DP=31
35788	chrY	13726428	.	T	A	101.21	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35789	chrY	13726434	.	G	A	324.09	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35790	chrY	13726449	.	T	C,G	4516.39	my_snp_filter	AC=4,4;AF=0.500,0.500;AN=
35791	chrY	13726460	.	A	G	3621.86	my_snp_filter	AC=8;AF=1.00;AN=8;DP=168;
35792	chrY	13726470	.	A	C	34.44	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35793	chrY	13726474	.	C	A	2670.38	my_snp_filter	AC=8;AF=1.00;AN=8;DP=105;
35794	chrY	13726484	.	G	T	45.33	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
35795	chrY	13726489	.	A	G	1032.38	my_snp_filter	AC=5;AF=0.625;AN=8;BaseQR
35796	chrY	13726504	.	A	T,*	345.25	my_snp_filter	AC=1,2;AF=0.083,0.167;AN=

35797	chrY	13728470	.	T	A	372.31	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
35798	chrY	13728718	.	T	C	133.12	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35799	chrY	13728730	.	G	T	133.38	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35800	chrY	13728758	.	T	G	72.40	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35801	chrY	13728774	.	G	T	450.55	my_snp_filter	AC=2;AF=0.111;AN=18;DP=20
35802	chrY	13728782	.	A	T	480.30	my_snp_filter	AC=2;AF=0.111;AN=18;DP=21
35803	chrY	13728800	.	A	C	80.51	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
35804	chrY	13728858	.	T	C	171.53	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
35805	chrY	13728881	.	A	C	87.30	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
35806	chrY	13728910	.	A	G	187.28	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
35807	chrY	13728918	.	G	C	591.15	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
35808	chrY	13728922	.	T	G	183.27	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
35809	chrY	13728941	.	T	A	690.08	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
35810	chrY	13728961	.	G	C	155.07	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
35811	chrY	13728985	.	A	T	91.19	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
35812	chrY	13729039	.	G	T	124.90	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
35813	chrY	13729885	.	G	T	45.86	my_snp_filter	AC=4;AF=0.667;AN=6;DP=8;F
35814	chrY	13729982	.	A	T	265.14	my_snp_filter	AC=2;AF=0.250;AN=8;BaseQR
35815	chrY	13730007	.	T	A	341.12	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
35816	chrY	13730014	.	A	G	383.13	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
35817	chrY	13730047	.	C	G	405.90	my_snp_filter	AC=3;AF=0.750;AN=4;BaseQR
35818	chrY	13730070	.	A	G	612.13	my_snp_filter	AC=5;AF=0.833;AN=6;BaseQR
35819	chrY	13730111	.	G	A	1228.25	my_snp_filter	AC=8;AF=0.571;AN=14;BaseQ
35820	chrY	13730123	.	A	T	1204.62	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35821	chrY	13730124	.	C	G	379.26	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35822	chrY	13730129	.	G	A	312.30	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35823	chrY	13730169	.	G	C	340.56	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
35824	chrY	13730182	.	A	G	383.12	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35825	chrY	13730184	.	G	T	1274.20	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
35826	chrY	13730193	.	C	T	1042.63	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
35827	chrY	13730270	.	G	T	171.96	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
35828	chrY	13730271	.	A	T	169.20	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
35829	chrY	13730282	.	G	C	24148.85	my_snp_filter	AC=29;AF=0.659;AN=
35830	chrY	13730284	.	G	C	24046.39	my_snp_filter	AC=29;AF=0.690;AN=
35831	chrY	13730286	.	A	G	174.88	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35832	chrY	13730304	.	G	T	267.67	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
35833	chrY	13730305	.	G	C,T	409.27	my_snp_filter	AC=2,3;AF=0.038,0.058;AN=
35834	chrY	13730340	.	G	C	5467.09	my_snp_filter	AC=12;AF=0.231;AN=52;Base
35835	chrY	13730353	.	T	A	12656.66	my_snp_filter	AC=19;AF=0.413;AN=
35836	chrY	13730377	.	T	A	11138.27	my_snp_filter	AC=34;AF=0.739;AN=
35837	chrY	13730401	.	A	C	73.26	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
35838	chrY	13730410	.	G	A	521.36	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
35839	chrY	13730429	.	G	C	3515.81	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
35840	chrY	13730459	.	T	G	1434.18	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35841	chrY	13730463	.	C	G	800.49	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
35842	chrY	13730524	.	C	G	1114.63	my_snp_filter	AC=8;AF=0.571;AN=14;BaseQ
35843	chrY	13730574	.	A	G	577.68	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
35844	chrY	13730579	.	T	A	664.28	my_snp_filter	AC=5;AF=0.417;AN=12;BaseQ
35845	chrY	13730604	.	T	A	534.68	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
35846	chrY	13730698	.	A	T	444.61	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35847	chrY	13730699	.	T	A	2371.58	my_snp_filter	AC=7;AF=0.500;AN=14;BaseQ
35848	chrY	13730719	.	T	C	226.86	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35849	chrY	13730732	.	A	T,C	2160.29	my_snp_filter	AC=7,2;AF=0.500,0.143;AN=
35850	chrY	13730734	.	G	T	87.54	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35851	chrY	13730735	.	A	C	89.33	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
35852	chrY	13730781	.	C	G	39.85	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35853	chrY	13733874	.	A	T	75.39	my_snp_filter	AC=3;AF=0.750;AN=4;BaseQR
35854	chrY	13733931	.	G	C	3148.15	my_snp_filter	AC=8;AF=0.571;AN=14;BaseQ
35855	chrY	13733937	.	G	T	47.69	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35856	chrY	13733942	.	G	C	429.84	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
35857	chrY	13733949	.	A	G	1534.79	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35858	chrY	13733969	.	A	C	226.87	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35859	chrY	13733975	.	C	A	285.59	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35860	chrY	13733982	.	G	T	300.16	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35861	chrY	13733993	.	A	G	298.29	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35862	chrY	13733997	.	G	A	294.04	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35863	chrY	13734004	.	G	A	7342.85	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
35864	chrY	13734024	.	T	A	8959.58	my_snp_filter	AC=12;AF=0.750;AN=16;Base
35865	chrY	13734029	.	A	T	6645.85	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
35866	chrY	13734042	.	C	T	213	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35867	chrY	13734057	.	G	A	6925.68	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
35868	chrY	13734066	.	C	G	7342.85	my_snp_filter	AC=8;AF=0.500;AN=16;BaseQ
35869	chrY	13734082	.	T	A	14022.03	my_snp_filter	AC=16;AF=1.00;AN=
35870	chrY	13734115	.	T	A	942.35	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
35871	chrY	13734135	.	C	T	300.61	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
35872	chrY	13734141	.	T	G,*	1290.59	my_snp_filter	AC=7,1;AF=0.438,0.063;AN=

35873	chrY	13734147	.	T	G,*	1105.69	my_snp_filter	AC=7,1;AF=0.438,0.063;AN=
35874	chrY	13734160	.	T	A	72.52	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
35875	chrY	13734163	.	C	A	497.73	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
35876	chrY	13734169	.	A	T	258.86	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
35877	chrY	13734175	.	T	C	3735.74	my_snp_filter	AC=8;AF=0.222;AN=36;BaseQ
35878	chrY	13734188	.	A	C	695.69	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
35879	chrY	13734201	.	G	T	13147.69	my_snp_filter	AC=8;AF=0.250;AN=
35880	chrY	13734207	.	G	T	50.80	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
35881	chrY	13734208	.	A	T	198.62	my_snp_filter	AC=3;AF=0.094;AN=32;BaseQ
35882	chrY	13734210	.	T	G	142.76	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
35883	chrY	13734217	.	G	T	265.49	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
35884	chrY	13734218	.	G	T	220.83	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
35885	chrY	13734230	.	T	A	10979.74	my_snp_filter	AC=8;AF=0.222;AN=
35886	chrY	13734231	.	A	G	15910.01	my_snp_filter	AC=8;AF=0.444;AN=
35887	chrY	13734238	.	A	C	131.62	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
35888	chrY	13734240	.	T	G	99.02	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
35889	chrY	13734255	.	G	T	16391.15	my_snp_filter	AC=8;AF=0.444;AN=
35890	chrY	13734264	.	G	T	15769.34	my_snp_filter	AC=25;AF=0.658;AN=
35891	chrY	13734292	.	T	C	20056.95	my_snp_filter	AC=20;AF=0.345;AN=
35892	chrY	13734301	.	A	G	20461.12	my_snp_filter	AC=21;AF=0.362;AN=
35893	chrY	13734323	.	A	G	8015.28	my_snp_filter	AC=25;AF=0.357;AN=70;BaseQ
35894	chrY	13734325	.	T	C	344.16	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
35895	chrY	13734327	.	G	A	1731.29	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
35896	chrY	13734341	.	C	T	11756.64	my_snp_filter	AC=26;AF=0.371;AN=
35897	chrY	13734378	.	A	T	2854.46	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
35898	chrY	13734389	.	A	T	90280.59	my_snp_filter	AC=43;AF=0.614;AN=
35899	chrY	13734402	.	A	C	40272.66	my_snp_filter	AC=32;AF=0.457;AN=
35900	chrY	13734410	.	T	C	26056.09	my_snp_filter	AC=30;AF=0.429;AN=
35901	chrY	13734452	.	G	C	1162.40	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
35902	chrY	13734465	.	T	C	17066.57	my_snp_filter	AC=33;AF=0.500;AN=
35903	chrY	13734467	.	G	A	4666.89	my_snp_filter	AC=24;AF=0.353;AN=68;BaseQ
35904	chrY	13734482	.	C	T	55.96	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
35905	chrY	13734488	.	A	C	1545.95	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
35906	chrY	13734517	.	A	G	2185.54	my_snp_filter	AC=16;AF=0.320;AN=50;BaseQ
35907	chrY	13734525	.	G	C	2572.71	my_snp_filter	AC=19;AF=0.475;AN=40;BaseQ
35908	chrY	13734548	.	T	A	1380.24	my_snp_filter	AC=12;AF=0.316;AN=38;BaseQ
35909	chrY	13734568	.	G	C	283.16	my_snp_filter	AC=6;AF=0.200;AN=30;BaseQ
35910	chrY	13734578	.	T	C	78.70	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
35911	chrY	13734604	.	T	A	441.19	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
35912	chrY	13734618	.	A	G	240.86	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
35913	chrY	13734631	.	G	A	360.96	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
35914	chrY	13734688	.	C	A	2463.92	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
35915	chrY	13734690	.	G	A	10980.80	my_snp_filter	AC=8;AF=0.400;AN=
35916	chrY	13734703	.	T	G	6525.63	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
35917	chrY	13734715	.	T	G	601.10	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35918	chrY	13734750	.	G	T	365.85	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
35919	chrY	13734783	.	T	C	2430.43	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
35920	chrY	13734785	.	C	G	1114.18	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
35921	chrY	13734789	.	T	C	255.67	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
35922	chrY	13734796	.	G	T	304.58	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35923	chrY	13734797	.	C	A	1082.33	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35924	chrY	13734806	.	G	T	669.82	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
35925	chrY	13734819	.	T	C	245.33	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35926	chrY	13734821	.	G	C	155.35	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35927	chrY	13737025	.	T	C	112.01	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35928	chrY	13737027	.	T	G	209.86	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
35929	chrY	13737065	.	T	A	1375.35	my_snp_filter	AC=11;AF=0.786;AN=14;BaseQ
35930	chrY	13737067	.	G	C	81.73	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
35931	chrY	13737074	.	T	C	586.40	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35932	chrY	13737093	.	T	C	190.65	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35933	chrY	13737096	.	T	G	129.85	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35934	chrY	13737421	.	C	G	291.89	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
35935	chrY	13737427	.	T	A	541.55	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
35936	chrY	13737430	.	A	G	163.94	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35937	chrY	13737444	.	G	C	156.08	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
35938	chrY	13737513	.	G	C	153.16	my_snp_filter	AC=6;AF=0.600;AN=10;BaseQ
35939	chrY	13739898	.	T	C	1790.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
35940	chrY	13739907	.	A	G	1790.59	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
35941	chrY	13739929	.	A	G	73.46	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
35942	chrY	13739931	.	T	C	30.75	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
35943	chrY	13739933	.	G	A	71.82	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
35944	chrY	13739941	.	T	A	146.71	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
35945	chrY	13739947	.	C	T	157.85	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
35946	chrY	13739951	.	T	A	146.87	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
35947	chrY	13739984	.	A	T	109.30	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
35948	chrY	13739995	.	A	T	1448.35	my_snp_filter	AC=10;AF=0.417;AN=24;BaseQ

35949	chrY	13740008	.	A	C	302.04	my_snp_filter	AC=4;AF=0.182;AN=22;BaseQ
35950	chrY	13740016	.	T	C	158.14	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
35951	chrY	13740071	.	T	C	62.57	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
35952	chrY	13740094	.	A	C	111.68	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
35953	chrY	13740123	.	A	G	268.62	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
35954	chrY	13740131	.	G	C	1434.92	my_snp_filter	AC=10;AF=0.500;AN=20;BaseQ
35955	chrY	13740135	.	T	G	218.14	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
35956	chrY	13740145	.	G	A	240.06	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
35957	chrY	13740151	.	A	G	163.96	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
35958	chrY	13740154	.	T	A	1637.53	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
35959	chrY	13740173	.	T	C	157.43	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
35960	chrY	13740174	.	G	C	1725.36	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
35961	chrY	13740177	.	A	G	1329.09	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
35962	chrY	13740193	.	A	G	155.57	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
35963	chrY	13740210	.	T	A	661.29	my_snp_filter	AC=7;AF=0.292;AN=24;BaseQ
35964	chrY	13740226	.	T	A	288.90	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
35965	chrY	13740252	.	G	C	166.47	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
35966	chrY	13740296	.	G	A	63.46	my_snp_filter	AC=4;AF=0.500;AN=8;DP=12;
35967	chrY	13740716	.	T	A	68.53	my_snp_filter	AC=4;AF=0.400;AN=10;DP=15
35968	chrY	13740743	.	A	C	66.68	my_snp_filter	AC=2;AF=0.500;AN=4;DP=16;
35969	chrY	13740761	.	G	C	64.97	my_snp_filter	AC=2;AF=0.333;AN=6;DP=17;
35970	chrY	13740913	.	G	C	152.88	my_snp_filter	AC=4;AF=0.667;AN=6;DP=7;F
35971	chrY	13740929	.	A	C	152.69	my_snp_filter	AC=4;AF=0.667;AN=6;DP=7;F
35972	chrY	13740930	.	A	C	152.72	my_snp_filter	AC=4;AF=0.667;AN=6;DP=7;F
35973	chrY	13740966	.	A	T	135.99	my_snp_filter	AC=4;AF=0.667;AN=6;DP=7;F
35974	chrY	13740968	.	C	G	140.98	my_snp_filter	AC=4;AF=1.000;AN=4;DP=7;FS
35975	chrY	13740969	.	A	T	43.85	my_snp_filter	AC=2;AF=0.250;AN=8;DP=7;F
35976	chrY	13742672	.	T	A	850.99	my_snp_filter	AC=13;AF=0.929;AN=14;BaseQ
35977	chrY	13742970	.	G	A	85.34	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
35978	chrY	13743163	.	A	G	2553.19	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
35979	chrY	13743368	.	C	T	682.45	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35980	chrY	13743379	.	G	T	710.60	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
35981	chrY	13743380	.	G	T	687.48	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
35982	chrY	13744297	.	G	A	392.99	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
35983	chrY	13745087	.	A	T	135.34	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
35984	chrY	13745144	.	G	C	336.85	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
35985	chrY	13745162	.	A	G	349.86	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ
35986	chrY	13745217	.	G	A	147.62	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
35987	chrY	13745237	.	T	A	189.93	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
35988	chrY	13745242	.	A	T	62.31	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
35989	chrY	13745295	.	T	A	166.07	my_snp_filter	AC=6;AF=0.375;AN=16;BaseQ
35990	chrY	13745370	.	G	A	52.74	my_snp_filter	AC=2;AF=0.100;AN=20;DP=15
35991	chrY	13745381	.	A	C	53.29	PASS	AC=2;AF=0.100;AN=20;DP=127;FS=0.0
35992	chrY	13745386	.	A	C	59.23	PASS	AC=2;AF=0.111;AN=18;DP=114;FS=0.0
35993	chrY	13745615	.	A	C	410.72	my_snp_filter	AC=7;AF=0.700;AN=10;BaseQ
35994	chrY	13747928	.	T	A	229.95	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
35995	chrY	13747980	.	T	A	97.50	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
35996	chrY	13748161	.	C	G	372.43	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
35997	chrY	13748166	.	T	A	6038.09	my_snp_filter	AC=10;AF=0.167;AN=60;BaseQ
35998	chrY	13748179	.	A	C	3960.41	my_snp_filter	AC=11;AF=0.183;AN=60;BaseQ
35999	chrY	13748195	.	G	T	12429.23	my_snp_filter	AC=16;AF=0.258;AN=60;BaseQ
36000	chrY	13748234	.	T	C	497.77	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
36001	chrY	13748236	.	T	G	19412.49	my_snp_filter	AC=32;AF=0.457;AN=70;BaseQ
36002	chrY	13748250	.	T	A	1387.16	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
36003	chrY	13748254	.	A	G	599.53	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
36004	chrY	13748255	.	T	A	6540.39	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
36005	chrY	13748275	.	A	T	6341.68	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQ
36006	chrY	13748276	.	G	C	179.07	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36007	chrY	13748283	.	T	C,A	25788.91	my_snp_filter	AC=28,7;AF=0.400,0.400
36008	chrY	13748285	.	C	T	1177.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36009	chrY	13748301	.	G	T	82.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36010	chrY	13748302	.	T	C	4186.87	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
36011	chrY	13748305	.	T	G	882.37	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
36012	chrY	13748367	.	G	T	191.04	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36013	chrY	13748373	.	G	A	342.97	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
36014	chrY	13748387	.	C	G	4543.04	my_snp_filter	AC=12;AF=0.207;AN=58;BaseQ
36015	chrY	13748391	.	C	T	6647.52	my_snp_filter	AC=21;AF=0.318;AN=66;BaseQ
36016	chrY	13748396	.	C	G	1825.62	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
36017	chrY	13748401	.	T	A	520.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36018	chrY	13748413	.	G	T	454.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36019	chrY	13748414	.	T	A	1063.92	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
36020	chrY	13748426	.	C	G	6460.65	my_snp_filter	AC=12;AF=0.207;AN=58;BaseQ
36021	chrY	13748440	.	C	T	4502	my_snp_filter	AC=14;AF=0.304;AN=46;BaseQ
36022	chrY	13748448	.	G	A,*	666.73	my_snp_filter	AC=4,3;AF=0.059,0.044;AN=7
36023	chrY	13748517	.	G	T	56.88	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
36024	chrY	13748526	.	T	A	424.70	my_snp_filter	AC=4;AF=0.167;AN=24;BaseQ

36025	chrY	13748548	.	G	C	416.47	my_snp_filter	AC=4;AF=0.333;AN=12;BaseQ
36026	chrY	13748553	.	G	C	99.32	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
36027	chrY	13798761	.	G	T	57.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36028	chrY	13798765	.	G	A	55.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36029	chrY	13798776	.	T	G	42.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36030	chrY	13798854	.	A	G	82.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36031	chrY	13798939	.	A	G	594.14	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36032	chrY	13798942	.	A	C	580.53	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36033	chrY	13798945	.	G	A	593.12	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36034	chrY	13798954	.	T	A	605.23	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
36035	chrY	13798966	.	T	C	661.81	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
36036	chrY	13798973	.	G	A	655.97	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
36037	chrY	13799009	.	T	C	657.31	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36038	chrY	13799010	.	C	A	702.62	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36039	chrY	13799023	.	G	A	1080.02	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36040	chrY	13799025	.	A	G	1125.39	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36041	chrY	13799033	.	T	G	1282.95	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
36042	chrY	13799036	.	C	G	1253.06	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36043	chrY	13799088	.	C	G	914.73	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36044	chrY	13799104	.	G	T	44.87	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
36045	chrY	13799146	.	C	G	230.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36046	chrY	13799151	.	T	G	234.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36047	chrY	13799154	.	T	A	119.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36048	chrY	13799186	.	G	A	79.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36049	chrY	13799190	.	G	A	79.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36050	chrY	13799197	.	G	C	94.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36051	chrY	13799204	.	G	C	112.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36052	chrY	13799205	.	G	A	91.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36053	chrY	13799220	.	A	C	60.56	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36054	chrY	13799223	.	T	A	53.71	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36055	chrY	13799225	.	G	T	5039.10	PASS	AC=44;AF=0.647;AN=68;DP=1444;FS=0
36056	chrY	13799243	.	T	G	9700.83	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
36057	chrY	13799258	.	C	T	553.81	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
36058	chrY	13799344	.	T	C	184.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36059	chrY	13799410	.	T	G	533.56	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
36060	chrY	13799424	.	G	A	511.21	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36061	chrY	13799465	.	G	A	97.28	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36062	chrY	13799471	.	G	T	86.75	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36063	chrY	13799916	.	T	G	440.89	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
36064	chrY	13799918	.	G	A	356.02	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36065	chrY	13799929	.	T	A	249.52	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36066	chrY	13799936	.	G	C	277.22	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36067	chrY	13800044	.	A	T	156.04	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
36068	chrY	13800046	.	T	C	156.21	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
36069	chrY	13800288	.	C	T	148.77	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36070	chrY	13800298	.	G	T	148.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36071	chrY	13800309	.	G	A	151.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36072	chrY	13800385	.	G	T	597.72	PASS	AC=4;AF=0.057;AN=70;DP=566;FS=0.0
36073	chrY	13800443	.	G	C	36.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36074	chrY	13800503	.	A	G	48.59	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
36075	chrY	13800514	.	A	T	70.88	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36076	chrY	13800550	.	T	A	32.86	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
36077	chrY	13800553	.	C	A	32.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36078	chrY	13800562	.	G	T	31.93	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
36079	chrY	13800573	.	G	C	33.66	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36080	chrY	13800582	.	C	T	36.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36081	chrY	13800583	.	A	G	36.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36082	chrY	13800592	.	C	T	47.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36083	chrY	13800593	.	A	G	50.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36084	chrY	13800613	.	T	G	55.12	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36085	chrY	13801236	.	G	A	4759.04	PASS	AC=34;AF=1.00;AN=34;DP=1123;FS=0
36086	chrY	13801289	.	C	G	34.72	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
36087	chrY	13801326	.	A	C	331.49	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
36088	chrY	13801343	.	C	T	103.97	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36089	chrY	13801344	.	T	G	106.20	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36090	chrY	13801348	.	C	A	103.47	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36091	chrY	13801352	.	A	T	103.10	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36092	chrY	13801391	.	G	A	71.30	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
36093	chrY	13801406	.	C	A	103.58	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
36094	chrY	13801418	.	G	A	58.24	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36095	chrY	13801419	.	G	C	57.49	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36096	chrY	13801431	.	A	C	194.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36097	chrY	13801436	.	A	T	164.51	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36098	chrY	13801437	.	T	G	122.96	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36099	chrY	13801439	.	C	A	139.10	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36100	chrY	13801443	.	T	G	4437.62	PASS	AC=22;AF=0.379;AN=58;BaseQRankSum=

36101	chrY	13801445	.	G	A	279.84	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
36102	chrY	13801448	.	T	A	108.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36103	chrY	13801453	.	C	T	50.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36104	chrY	13801454	.	G	A	108.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36105	chrY	13801457	.	T	C	33.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36106	chrY	13801459	.	G	T	4093.26	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
36107	chrY	13801463	.	G	A	34.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36108	chrY	13801467	.	G	T	4477.71	PASS	AC=21;AF=0.350;AN=60;BaseQRankSum=
36109	chrY	13801471	.	A	G	69.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36110	chrY	13801472	.	T	G	69.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36111	chrY	13801473	.	G	C	3626.16	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
36112	chrY	13801479	.	T	C	135.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36113	chrY	13801502	.	T	G,A	2251.66	PASS	AC=12,2;AF=0.182,0.030;AN=66;Base
36114	chrY	13801503	.	A	G,T	2517.83	PASS	AC=14,2;AF=0.212,0.030;AN=66;Base
36115	chrY	13801504	.	C	A	2136.08	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
36116	chrY	13801507	.	A	T	109.01	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
36117	chrY	13801508	.	G	A	2103.20	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
36118	chrY	13801531	.	G	A	1383.83	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
36119	chrY	13801542	.	C	T	1188.03	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
36120	chrY	13801547	.	T	C	683.09	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36121	chrY	13801558	.	C	T	579.72	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36122	chrY	13801714	.	G	A	45.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36123	chrY	13801717	.	G	A	49.23	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36124	chrY	13801719	.	T	G	45.13	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36125	chrY	13801734	.	T	G	60.43	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36126	chrY	13801735	.	T	A	63.71	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36127	chrY	13801900	.	A	G	152.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36128	chrY	13801902	.	A	C	146.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36129	chrY	13801904	.	G	T	151.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36130	chrY	13801920	.	G	T	163.19	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36131	chrY	13801929	.	T	G	155.11	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36132	chrY	13801930	.	G	C	152.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36133	chrY	13801940	.	A	G	153.36	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36134	chrY	13801953	.	A	T	156.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36135	chrY	13801961	.	A	T	157.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36136	chrY	13801963	.	T	C	31.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36137	chrY	13801964	.	G	A	31.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36138	chrY	13801968	.	C	T	30.03	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36139	chrY	13801977	.	G	A	32.37	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
36140	chrY	13801982	.	A	G	31.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36141	chrY	13802024	.	T	C	802.26	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36142	chrY	13802380	.	C	A	1241.12	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36143	chrY	13802743	.	C	G	126.77	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
36144	chrY	13802762	.	C	A	48.63	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36145	chrY	13802767	.	A	G	54.27	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36146	chrY	13802770	.	C	A	57.03	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36147	chrY	13802771	.	T	C	58.26	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36148	chrY	13802772	.	G	A	58.35	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36149	chrY	13803166	.	A	T	117.25	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36150	chrY	13803167	.	A	G	82.77	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36151	chrY	13803171	.	T	A	50.25	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36152	chrY	13803172	.	C	A	51.73	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36153	chrY	13803179	.	G	A	41.59	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
36154	chrY	13803181	.	C	T	34.80	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
36155	chrY	13803198	.	T	A	492.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36156	chrY	13803200	.	C	T	495.12	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36157	chrY	13803208	.	C	A	517.84	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36158	chrY	13803231	.	A	T	797.85	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36159	chrY	13803256	.	A	T	879.21	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36160	chrY	13803266	.	T	A	870.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36161	chrY	13803276	.	C	A	33.44	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
36162	chrY	13803277	.	A	G	31.81	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
36163	chrY	13803290	.	C	A	793	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36164	chrY	13803292	.	G	A	749.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36165	chrY	13803301	.	A	C	813.66	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36166	chrY	13803302	.	G	A	787.03	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36167	chrY	13803312	.	G	A	105.39	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36168	chrY	13803313	.	G	T	231.67	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36169	chrY	13803335	.	C	T	1142.62	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
36170	chrY	13803338	.	A	G	1263.16	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36171	chrY	13803340	.	C	A	1241.46	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
36172	chrY	13803352	.	C	T	1223.33	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36173	chrY	13803371	.	A	T	1823.98	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
36174	chrY	13803375	.	G	A	1061.65	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
36175	chrY	13803376	.	T	C	1019.10	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
36176	chrY	13803377	.	G	A	1020.79	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=

36177	chrY	13803396	.	T	C	32.13	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36178	chrY	13803397	.	G	A	32.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36179	chrY	13803403	.	C	G	680.08	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36180	chrY	13803417	.	C	G	698.27	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36181	chrY	13803418	.	T	G	661.12	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36182	chrY	13803419	.	C	A	661.77	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36183	chrY	13803426	.	C	T	677.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36184	chrY	13803427	.	G	A	32.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36185	chrY	13803438	.	T	G	817.42	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36186	chrY	13803442	.	G	A	803.36	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36187	chrY	13803467	.	C	T	986.07	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36188	chrY	13803469	.	T	A	958.55	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
36189	chrY	13803472	.	G	T	949.10	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36190	chrY	13803507	.	G	A	226.44	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36191	chrY	13803516	.	T	C	220.18	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36192	chrY	13803517	.	G	A	240.31	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36193	chrY	13803521	.	C	T	172.53	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36194	chrY	13803532	.	G	A	137.90	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
36195	chrY	13803538	.	C	G	224.61	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36196	chrY	13803546	.	T	A	185.94	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
36197	chrY	13803552	.	T	G	272.88	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36198	chrY	13803746	.	G	A	323.54	PASS	AC=2;AF=0.029;AN=70;DP=550;FS=0.0
36199	chrY	13803881	.	G	T	61.23	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36200	chrY	13803992	.	C	A	166.61	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
36201	chrY	13804034	.	T	C	1104.89	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36202	chrY	13804035	.	G	C	1163.15	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
36203	chrY	13804049	.	T	A	1059.78	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36204	chrY	13804050	.	C	T	359.69	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36205	chrY	13804057	.	A	T	42.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36206	chrY	13804059	.	A	T	1262.07	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
36207	chrY	13804063	.	G	C,T	1004.57	PASS	AC=8,2;AF=0.121,0.030;AN=66;BaseQ
36208	chrY	13804080	.	T	C	168.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36209	chrY	13804084	.	T	C	312.77	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36210	chrY	13804086	.	G	A	117.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36211	chrY	13804087	.	A	G	115.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36212	chrY	13804090	.	T	G	528.02	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
36213	chrY	13804096	.	G	C	136.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36214	chrY	13804109	.	C	A	180.39	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36215	chrY	13804116	.	C	G	240.79	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36216	chrY	13804122	.	G	A	620.07	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
36217	chrY	13804126	.	G	A	71.33	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36218	chrY	13804129	.	T	G	157.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36219	chrY	13804130	.	T	G	840.95	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
36220	chrY	13804131	.	G	A	463.34	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36221	chrY	13804140	.	C	T	125.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36222	chrY	13804144	.	T	C	448.49	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36223	chrY	13804146	.	C	G	746.76	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
36224	chrY	13804150	.	A	G	518.34	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
36225	chrY	13804153	.	A	C	739.41	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
36226	chrY	13804154	.	C	A	382.63	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36227	chrY	13804159	.	C	T	54.55	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36228	chrY	13804160	.	G	A,T	372.03	PASS	AC=7,1;AF=0.103,0.015;AN=68;BaseQ
36229	chrY	13804162	.	A	C	243.06	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36230	chrY	13804163	.	A	G	456.82	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36231	chrY	13804174	.	T	C	82.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36232	chrY	13804176	.	G	A	447.59	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36233	chrY	13804181	.	G	T	83.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36234	chrY	13804186	.	C	G	748.32	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
36235	chrY	13804192	.	A	G	59.19	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36236	chrY	13804194	.	T	C	183.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36237	chrY	13804202	.	A	T	175.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36238	chrY	13804211	.	G	A	1209.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36239	chrY	13804293	.	A	G	8142.97	PASS	AC=38;AF=0.559;AN=68;DP=653;FS=0.
36240	chrY	13804501	.	G	A	293.05	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36241	chrY	13804508	.	C	T	280.30	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
36242	chrY	13804514	.	G	T	277.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36243	chrY	13804543	.	T	G	127.16	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
36244	chrY	13804788	.	A	T	17701.91	PASS	AC=11;AF=0.611;AN=18;BaseQ
36245	chrY	13804794	.	C	A	17925.21	PASS	AC=11;AF=0.611;AN=18;BaseQ
36246	chrY	13804797	.	G	A	17556.21	PASS	AC=11;AF=0.611;AN=18;BaseQ
36247	chrY	13804798	.	T	A	17989.02	PASS	AC=11;AF=0.611;AN=18;BaseQ
36248	chrY	13804800	.	T	G	17518.21	PASS	AC=11;AF=0.611;AN=18;BaseQ
36249	chrY	13804809	.	A	C	18260.86	PASS	AC=11;AF=0.500;AN=22;BaseQ
36250	chrY	13804810	.	T	C	69.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36251	chrY	13804813	.	A	T	73.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36252	chrY	13804821	.	A	G	18452.32	PASS	AC=13;AF=0.542;AN=24;BaseQ

36253	chrY	13804824	.	C	T	48.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36254	chrY	13804825	.	T	G	33.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36255	chrY	13804832	.	G	A	18372.44	PASS	AC=11;AF=0.611;AN=18;BaseQRankSum=
36256	chrY	13804834	.	A	T	33.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36257	chrY	13804838	.	T	A	73.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36258	chrY	13804841	.	C	T	18104.93	PASS	AC=12;AF=0.545;AN=22;BaseQRankSum=
36259	chrY	13804847	.	G	A	45.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36260	chrY	13804850	.	T	C	17421.33	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
36261	chrY	13804862	.	G	T	15920.33	PASS	AC=11;AF=0.500;AN=22;BaseQRankSum=
36262	chrY	13804872	.	G	C	63.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36263	chrY	13804875	.	T	A	70.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36264	chrY	13804877	.	G	C	70.26	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36265	chrY	13804879	.	T	A	9399.12	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
36266	chrY	13804891	.	G	A	73.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36267	chrY	13804902	.	C	A	273.65	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
36268	chrY	13805078	.	A	C	30.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
36269	chrY	13805110	.	T	A	1734.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36270	chrY	13805112	.	G	T	1737.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36271	chrY	13805115	.	C	A	1176.29	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36272	chrY	13805127	.	A	G	1135.50	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
36273	chrY	13805128	.	T	A	80.93	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
36274	chrY	13805132	.	G	A	79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36275	chrY	13805137	.	C	G	81.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36276	chrY	13805144	.	A	G	1080.08	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36277	chrY	13805157	.	T	G	1054.64	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36278	chrY	13805183	.	A	T	78.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36279	chrY	13805185	.	C	T	81.96	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
36280	chrY	13805186	.	T	C	86.75	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQRankSum=
36281	chrY	13805191	.	G	T	84.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36282	chrY	13805194	.	T	A	87.40	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQRankSum=
36283	chrY	13805197	.	T	A	74.32	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36284	chrY	13805198	.	T	A	74.43	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36285	chrY	13805241	.	G	C	74.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36286	chrY	13805245	.	G	A	80.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36287	chrY	13805257	.	G	A	63.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36288	chrY	13805266	.	A	C	67.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36289	chrY	13805452	.	C	G	33.70	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36290	chrY	13805486	.	C	T	1077.32	PASS	AC=6;AF=0.103;AN=58;DP=913;FS=0.0
36291	chrY	13805640	.	G	T	55.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36292	chrY	13805646	.	G	A	55.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36293	chrY	13805651	.	G	A	43.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36294	chrY	13805655	.	A	G	43.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36295	chrY	13805656	.	G	C	34.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
36296	chrY	13805664	.	T	A	31.03	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
36297	chrY	13805746	.	G	T	49.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
36298	chrY	13805765	.	T	G	38.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36299	chrY	13806212	.	G	T	517.13	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
36300	chrY	13806306	.	T	A	233.21	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36301	chrY	13806307	.	T	A	242.52	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36302	chrY	13806311	.	T	G	227.84	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36303	chrY	13806326	.	A	C	173.24	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
36304	chrY	13806334	.	T	A	109.21	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
36305	chrY	13806357	.	C	A	104.52	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQRankSum=
36306	chrY	13807235	.	G	C	218.43	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36307	chrY	13807236	.	T	G	216.58	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36308	chrY	13807242	.	G	C	228.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36309	chrY	13807250	.	A	C	260.18	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36310	chrY	13807274	.	A	T	77.40	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36311	chrY	13807296	.	T	A	335.58	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
36312	chrY	13807318	.	G	T	111.43	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQRankSum=
36313	chrY	13807392	.	G	A	1061.83	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36314	chrY	13807393	.	A	T	1064.28	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36315	chrY	13807401	.	G	C	963.09	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36316	chrY	13807402	.	A	C	968.93	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36317	chrY	13807415	.	G	T	964.14	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36318	chrY	13807475	.	A	C	9139.92	PASS	AC=62;AF=1.00;AN=62;BaseQRankSum=
36319	chrY	13807486	.	G	A	707.26	PASS	AC=4;AF=0.061;AN=66;DP=442;FS=0.0
36320	chrY	13807527	.	T	C	11406.73	PASS	AC=50;AF=0.735;AN=68;DP=5
36321	chrY	13807682	.	G	T	43.05	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
36322	chrY	13807983	.	G	A	336.35	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
36323	chrY	13808010	.	G	A	202.30	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
36324	chrY	13808020	.	G	C	211.13	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
36325	chrY	13808022	.	A	C	210.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
36326	chrY	13808023	.	T	A	373.83	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36327	chrY	13808294	.	A	T	118.41	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
36328	chrY	13808302	.	G	A	47.91	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=

36329	chrY	13808307	.	C	A	47.13	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
36330	chrY	13808308	.	A	G	43.75	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36331	chrY	13808345	.	A	G	823.41	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36332	chrY	13808358	.	C	G	832.42	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
36333	chrY	13808376	.	A	C	243.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36334	chrY	13808389	.	C	T	1366.44	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
36335	chrY	13808403	.	A	C	938.60	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36336	chrY	13808405	.	G	C	71.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36337	chrY	13808407	.	G	C	794.31	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36338	chrY	13808409	.	A	T	824.13	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36339	chrY	13808420	.	T	G	52.93	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36340	chrY	13808508	.	T	A	37.57	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36341	chrY	13808515	.	A	C	40.62	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36342	chrY	13808550	.	G	A	235.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36343	chrY	13808635	.	C	T	346.39	PASS	AC=2;AF=0.038;AN=52;DP=1197;FS=0.
36344	chrY	13808740	.	C	G	415.89	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
36345	chrY	13808779	.	G	A	198.03	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36346	chrY	13808780	.	C	G	2522.81	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
36347	chrY	13809000	.	G	A	74.28	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
36348	chrY	13809008	.	T	C	77.28	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36349	chrY	13809013	.	C	T	79.38	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36350	chrY	13809019	.	C	G	78.85	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36351	chrY	13809022	.	A	T	79.17	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36352	chrY	13809023	.	C	T	79.19	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
36353	chrY	13809029	.	G	T	74.19	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36354	chrY	13809064	.	T	G	37.21	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36355	chrY	13809088	.	C	G	2005.54	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
36356	chrY	13809089	.	G	C	1904.10	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
36357	chrY	13809098	.	T	G	2093.42	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum=
36358	chrY	13809112	.	G	A	2260.54	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
36359	chrY	13809114	.	G	T	2081.21	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
36360	chrY	13809117	.	T	A	2156.31	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
36361	chrY	13809121	.	T	C	2054.56	PASS	AC=14;AF=0.259;AN=54;BaseQRankSum=
36362	chrY	13809122	.	T	A	79.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36363	chrY	13809128	.	G	A	79.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36364	chrY	13809129	.	G	T	118.52	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36365	chrY	13809134	.	G	C	2120.19	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum=
36366	chrY	13809136	.	C	T	2135.85	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
36367	chrY	13809137	.	T	A	132.73	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36368	chrY	13809149	.	G	A	116.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36369	chrY	13809163	.	G	A	1790.69	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
36370	chrY	13809172	.	T	G	1958.50	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36371	chrY	13809175	.	C	G	4755.31	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
36372	chrY	13809176	.	A	G	1920.54	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
36373	chrY	13809182	.	T	A	2010.90	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
36374	chrY	13809184	.	C	G	4731.77	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
36375	chrY	13809194	.	C	G	3851.66	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
36376	chrY	13809199	.	G	A	1706.95	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
36377	chrY	13809200	.	A	G	3398.10	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
36378	chrY	13809215	.	A	T	168.86	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
36379	chrY	13809222	.	T	A	1235.80	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36380	chrY	13809229	.	A	G	1284.22	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36381	chrY	13809233	.	T	A	1264.92	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
36382	chrY	13809234	.	G	T	400.55	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
36383	chrY	13809249	.	T	C	848.80	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
36384	chrY	13809254	.	G	A	1013.01	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
36385	chrY	13809258	.	A	G	813.44	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
36386	chrY	13809259	.	T	G	820.72	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36387	chrY	13809272	.	T	A	517.88	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36388	chrY	13809279	.	G	A	510.34	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36389	chrY	13809281	.	C	A	381.88	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36390	chrY	13809511	.	A	C	702.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36391	chrY	13809512	.	T	A	703.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36392	chrY	13809697	.	T	C	37.71	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36393	chrY	13809698	.	G	C	1214.86	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36394	chrY	13809702	.	T	C	1209.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36395	chrY	13809708	.	C	A	986.86	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36396	chrY	13809723	.	C	T	75.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36397	chrY	13809728	.	A	G	465.41	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
36398	chrY	13809729	.	T	G	522.48	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
36399	chrY	13809732	.	A	T	12248.67	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
36400	chrY	13809738	.	T	C	1202.66	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
36401	chrY	13809743	.	G	T	330.80	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
36402	chrY	13809744	.	T	G	1198.46	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
36403	chrY	13809763	.	G	T	1666.85	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36404	chrY	13809764	.	G	T	938.42	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=

36405	chrY	13809768	.	G	C	256.57	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
36406	chrY	13809771	.	G	A	4050.49	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
36407	chrY	13809784	.	G	A	733.23	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
36408	chrY	13809787	.	A	T	1331	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
36409	chrY	13809794	.	A	G	2317.99	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
36410	chrY	13809796	.	G	C	1847.53	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
36411	chrY	13809798	.	G	A	132.54	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36412	chrY	13809811	.	A	T	294.97	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36413	chrY	13809817	.	C	T	135.34	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
36414	chrY	13809818	.	A	G	584.77	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36415	chrY	13809826	.	C	A	628.19	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
36416	chrY	13809828	.	T	G	134.95	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
36417	chrY	13809877	.	A	T	145.27	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36418	chrY	13809887	.	A	T	111.21	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36419	chrY	13810004	.	C	G	64.63	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36420	chrY	13810016	.	A	G	59.61	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36421	chrY	13810104	.	T	G	129.42	PASS	AC=5;AF=0.208;AN=24;BaseQRankSum=
36422	chrY	13810109	.	G	A	650.26	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36423	chrY	13810111	.	A	T	648.61	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36424	chrY	13810116	.	A	G	620.72	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36425	chrY	13810118	.	G	A	657.40	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
36426	chrY	13810166	.	C	G	392.80	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
36427	chrY	13810173	.	A	C	361.91	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
36428	chrY	13810206	.	T	A	222.83	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
36429	chrY	13810213	.	C	A	211.31	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
36430	chrY	13810216	.	A	G	198.77	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36431	chrY	13810226	.	T	A,G	453.59	PASS	AC=2,1;AF=0.045,0.023;AN=44;BaseQ
36432	chrY	13810228	.	A	C	83.15	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
36433	chrY	13810229	.	G	C	79.38	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36434	chrY	13810232	.	T	A	74.67	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36435	chrY	13810233	.	T	G	267.29	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36436	chrY	13810239	.	A	C	251.40	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36437	chrY	13810240	.	C	A	247.06	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36438	chrY	13810248	.	G	T	102.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36439	chrY	13810278	.	C	T	186.76	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
36440	chrY	13810291	.	T	A	142.56	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36441	chrY	13810295	.	A	T	71.11	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36442	chrY	13810298	.	T	A	139.16	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36443	chrY	13810302	.	A	T	134.47	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
36444	chrY	13810468	.	T	A	598.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36445	chrY	13810474	.	A	G	573.30	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36446	chrY	13810485	.	T	A	572.32	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36447	chrY	13810492	.	T	A	523.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36448	chrY	13810500	.	A	C	432.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36449	chrY	13810512	.	T	A	172.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36450	chrY	13810517	.	A	T	191.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36451	chrY	13810523	.	T	G	148.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36452	chrY	13810622	.	A	T	601.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36453	chrY	13810663	.	C	T	109.62	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
36454	chrY	13810668	.	G	A	104.93	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
36455	chrY	13810678	.	G	A	101.90	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
36456	chrY	13810686	.	A	C	103.82	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
36457	chrY	13810700	.	A	T	77.80	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36458	chrY	13810701	.	G	C	81.86	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36459	chrY	13811124	.	C	G	154.89	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
36460	chrY	13811129	.	G	C	140.82	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36461	chrY	13811174	.	C	G	94.03	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
36462	chrY	13811184	.	G	A	171.14	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36463	chrY	13811399	.	T	C	174.49	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
36464	chrY	13811427	.	T	A	625.40	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36465	chrY	13811430	.	A	G	607.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36466	chrY	13811433	.	A	G	569.53	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36467	chrY	13811438	.	G	T	499.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36468	chrY	13811443	.	T	G	364.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36469	chrY	13811446	.	T	C	327.06	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36470	chrY	13811456	.	T	G	224.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36471	chrY	13811513	.	G	A	68.71	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36472	chrY	13811516	.	A	C	68.24	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
36473	chrY	13811526	.	T	A	64.48	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36474	chrY	13811528	.	A	T	65.87	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
36475	chrY	13811675	.	A	T	108.69	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
36476	chrY	13811771	.	T	C	99.23	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
36477	chrY	13811772	.	G	A	93.69	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
36478	chrY	13811776	.	A	T	264.09	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
36479	chrY	13811783	.	G	A,T	239.25	PASS	AC=2,3;AF=0.033,0.050;AN=60;BaseQ
36480	chrY	13811786	.	C	G	116.18	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=

36481	chrY	13811787	.	G	A	110.66	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36482	chrY	13811791	.	C	A	46.36	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
36483	chrY	13811797	.	A	G	43.90	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
36484	chrY	13811812	.	C	G	44.09	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
36485	chrY	13812018	.	G	T	97.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36486	chrY	13812025	.	G	A	1148.34	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36487	chrY	13812028	.	G	C	1178.69	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36488	chrY	13812030	.	A	G	1220.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36489	chrY	13812038	.	A	G	1269.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36490	chrY	13812061	.	A	T	1381.51	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36491	chrY	13812062	.	G	A	1435.63	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36492	chrY	13812071	.	T	A	1341.59	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36493	chrY	13812079	.	A	G	1359.16	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36494	chrY	13812083	.	A	C	1358.50	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36495	chrY	13812090	.	T	A	1323.78	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
36496	chrY	13812092	.	T	C	1323.07	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36497	chrY	13812098	.	G	T	1329.65	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36498	chrY	13812101	.	C	T	1335.05	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36499	chrY	13812108	.	C	G	1260.13	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36500	chrY	13812137	.	C	T	679.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36501	chrY	13812158	.	C	G	652.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36502	chrY	13812160	.	T	A	627.10	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36503	chrY	13812166	.	T	A	578.25	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36504	chrY	13812205	.	T	C	179.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36505	chrY	13812208	.	A	G	177.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36506	chrY	13812280	.	C	T	4538.14	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
36507	chrY	13812290	.	C	A	4651.26	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
36508	chrY	13812321	.	C	T	3244.52	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
36509	chrY	13812328	.	G	A	3122.78	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
36510	chrY	13812342	.	T	C	2837.43	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36511	chrY	13812346	.	G	T	2634.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36512	chrY	13812361	.	T	A	1720.15	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36513	chrY	13812367	.	C	G	1380.38	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36514	chrY	13812375	.	G	A	981.25	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36515	chrY	13812382	.	T	G	510.73	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36516	chrY	13812383	.	T	G	492.68	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36517	chrY	13812388	.	G	A	446.87	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36518	chrY	13812391	.	G	T	372.21	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36519	chrY	13812397	.	T	G	295.18	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36520	chrY	13812406	.	C	T	242.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36521	chrY	13812407	.	A	G	239.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36522	chrY	13812414	.	A	T	140.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36523	chrY	13812526	.	G	A	1277	PASS	AC=6;AF=0.086;AN=70;DP=582;FS=0.0
36524	chrY	13812840	.	T	C	55.11	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
36525	chrY	13812884	.	A	T	148.12	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36526	chrY	13812887	.	G	T,C	867.96	PASS	AC=11,2;AF=0.167,0.030;AN=66;BaseQ
36527	chrY	13812889	.	A	G	52440.50	PASS	AC=5;AF=0.074;AN=68;BaseQ
36528	chrY	13812890	.	T	C	134.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36529	chrY	13812891	.	G	T,A	52636.59	PASS	AC=2,5;AF=0.031,0.078;AN=
36530	chrY	13812894	.	A	T	127.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36531	chrY	13812900	.	G	T	52370.35	PASS	AC=5;AF=0.086;AN=58;BaseQ
36532	chrY	13812911	.	C	T,*	698.59	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
36533	chrY	13812914	.	A	T	121.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36534	chrY	13812920	.	G	T,*	2320.73	PASS	AC=12,3;AF=0.188,0.047;AN=64;Base
36535	chrY	13812922	.	C	G,A,*	1449.61	PASS	AC=6,6,3;AF=0.094,0.094,0.047;AN=
36536	chrY	13812926	.	A	C	1857.40	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
36537	chrY	13812927	.	G	A	64.25	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36538	chrY	13812931	.	G	C	61.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36539	chrY	13812932	.	G	C	94.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36540	chrY	13812941	.	C	T	304.86	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36541	chrY	13812949	.	G	A	332.33	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
36542	chrY	13812952	.	T	C	131.84	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
36543	chrY	13813136	.	A	G	50.95	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36544	chrY	13813144	.	C	G	100.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36545	chrY	13813150	.	T	A	48.97	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36546	chrY	13813151	.	G	A	35.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36547	chrY	13813152	.	C	G	27454	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
36548	chrY	13813166	.	A	G	99.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36549	chrY	13813175	.	T	A	1837.40	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
36550	chrY	13813176	.	C	T	2389.61	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
36551	chrY	13813177	.	G	C	32.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36552	chrY	13813182	.	G	C	80.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36553	chrY	13813192	.	G	A	136.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36554	chrY	13813216	.	G	T	634.43	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36555	chrY	13813221	.	C	A	197.06	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36556	chrY	13813534	.	A	G	256.99	PASS	AC=2;AF=0.042;AN=48;DP=1361;FS=0.

36557	chrY	13813920	.	G	T	470.24	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
36558	chrY	13813931	.	G	A	442.10	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
36559	chrY	13813937	.	T	A	416.68	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
36560	chrY	13813941	.	C	T	384.39	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
36561	chrY	13813950	.	A	T	369.34	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
36562	chrY	13814050	.	T	A	60.10	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
36563	chrY	13814054	.	C	A,T	549.48	PASS	AC=5,8;AF=0.074,0.118;AN=68;BaseQ
36564	chrY	13814055	.	T	A	965.61	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
36565	chrY	13814056	.	G	C,T	1748.73	PASS	AC=11,5;AF=0.167,0.076;AN=66;Base
36566	chrY	13814066	.	G	C	434.01	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36567	chrY	13814067	.	C	G,A	1003.08	PASS	AC=6,8;AF=0.088,0.118;AN=68;BaseQ
36568	chrY	13814079	.	A	G	213.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36569	chrY	13814084	.	T	C	816.20	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
36570	chrY	13814086	.	C	G	44.35	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
36571	chrY	13814087	.	A	G	728.02	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36572	chrY	13814091	.	G	A	605.41	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36573	chrY	13814095	.	T	A	537.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36574	chrY	13814097	.	G	A	270.17	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36575	chrY	13814106	.	A	G	579.37	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
36576	chrY	13814108	.	A	T	447.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36577	chrY	13814117	.	A	G	201.21	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36578	chrY	13814122	.	C	G	216.20	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
36579	chrY	13814132	.	A	G	413.09	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
36580	chrY	13814135	.	T	A	127.21	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36581	chrY	13814142	.	C	G	84.42	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
36582	chrY	13814146	.	G	A	176.05	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36583	chrY	13814148	.	C	T	138.91	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36584	chrY	13815490	.	A	C	507.39	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36585	chrY	13815495	.	A	T	891.77	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36586	chrY	13815502	.	C	T	912.97	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
36587	chrY	13815503	.	G	C	1034.49	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
36588	chrY	13815516	.	T	A	598.03	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
36589	chrY	13815527	.	G	T	121.85	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36590	chrY	13815536	.	T	A	281.32	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36591	chrY	13815543	.	A	G	1793.06	PASS	AC=15;AF=0.395;AN=38;BaseQRankSum=
36592	chrY	13815548	.	A	G	1437.38	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=
36593	chrY	13815557	.	G	A	1735.92	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
36594	chrY	13815563	.	G	A	244.42	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36595	chrY	13815566	.	T	G	786.27	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
36596	chrY	13815567	.	A	G	2098.50	PASS	AC=14;AF=0.304;AN=46;BaseQRankSum=
36597	chrY	13815569	.	A	T	668.03	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
36598	chrY	13815577	.	G	A	87.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36599	chrY	13815582	.	G	A,T	306.15	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
36600	chrY	13815592	.	C	T	291.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36601	chrY	13815603	.	G	T	158.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36602	chrY	13815607	.	A	T,C	753.94	PASS	AC=4,3;AF=0.065,0.048;AN=62;BaseQ
36603	chrY	13815608	.	G	C	556	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
36604	chrY	13815610	.	A	T	43.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36605	chrY	13815611	.	T	C	102.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36606	chrY	13815613	.	G	A	239.24	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
36607	chrY	13815615	.	A	G	50.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36608	chrY	13815616	.	T	G	49.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36609	chrY	13815622	.	C	A	762.69	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36610	chrY	13815623	.	G	A	342.57	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36611	chrY	13815627	.	T	G	1296.60	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
36612	chrY	13815635	.	A	T	95.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36613	chrY	13815637	.	C	T	411.05	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
36614	chrY	13815638	.	A	G	587.12	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
36615	chrY	13815640	.	A	T	48.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36616	chrY	13815644	.	A	T	42.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36617	chrY	13815646	.	T	A	40.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36618	chrY	13815648	.	G	T	711.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36619	chrY	13815650	.	C	T	52.37	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
36620	chrY	13815651	.	A	T	2190.38	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
36621	chrY	13815663	.	G	T	518.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36622	chrY	13815666	.	A	T	822.98	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
36623	chrY	13815668	.	G	T	636.43	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
36624	chrY	13815675	.	G	A	216.59	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
36625	chrY	13815680	.	C	G	284.48	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36626	chrY	13815681	.	G	A	606.86	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
36627	chrY	13815682	.	G	T	30.03	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36628	chrY	13815684	.	A	T	56.13	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
36629	chrY	13815692	.	C	G	163.52	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
36630	chrY	13815712	.	G	C	53.39	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36631	chrY	13815934	.	T	G	489.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36632	chrY	13815937	.	G	A	492.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

36633	chrY	13816025	.	A	G	21053.91	PASS	AC=70;AF=1.00;AN=70;DP=74
36634	chrY	13816082	.	A	C	162.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36635	chrY	13816083	.	T	A	157.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36636	chrY	13816088	.	T	G	154.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36637	chrY	13816095	.	G	C	152.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36638	chrY	13816100	.	C	G	153.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36639	chrY	13816113	.	T	A	157.92	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36640	chrY	13816118	.	A	T	116.76	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36641	chrY	13816678	.	A	C	84.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36642	chrY	13816679	.	A	C	81.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36643	chrY	13816682	.	C	T	82.08	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
36644	chrY	13816705	.	A	C	65.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36645	chrY	13816716	.	C	A	65.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36646	chrY	13816947	.	T	A	365.55	PASS	AC=2;AF=0.029;AN=70;DP=418;FS=0.0
36647	chrY	13817003	.	G	A	4356.84	PASS	AC=32;AF=0.516;AN=62;DP=413;FS=0.
36648	chrY	13817142	.	G	A	36.14	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36649	chrY	13817166	.	C	T	61.80	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
36650	chrY	13817177	.	A	C	64.34	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
36651	chrY	13817178	.	G	C	70.74	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
36652	chrY	13817183	.	T	G	104.16	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
36653	chrY	13817196	.	T	A	81.25	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
36654	chrY	13817197	.	A	G	348.90	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
36655	chrY	13817233	.	G	C	1576.83	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
36656	chrY	13817235	.	T	C	31.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36657	chrY	13817236	.	G	T	329.07	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
36658	chrY	13817239	.	A	T	75.63	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36659	chrY	13817240	.	A	G	68.17	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
36660	chrY	13817246	.	C	T	2309.86	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
36661	chrY	13817248	.	G	A	1592.92	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
36662	chrY	13817256	.	T	C	31.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36663	chrY	13817262	.	G	C	1452.20	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
36664	chrY	13817267	.	C	G	1578.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
36665	chrY	13817268	.	G	T	77.24	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
36666	chrY	13817277	.	A	G	272.69	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36667	chrY	13817278	.	T	C	71.13	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36668	chrY	13817281	.	T	C	107.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36669	chrY	13817282	.	C	A	70.75	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
36670	chrY	13817283	.	T	C	114.93	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36671	chrY	13817292	.	T	G	134.13	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36672	chrY	13817297	.	A	T	163.02	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
36673	chrY	13817301	.	T	A	68.30	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36674	chrY	13817303	.	C	A	74.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36675	chrY	13817318	.	T	A	97.12	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
36676	chrY	13817322	.	G	A	69.86	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36677	chrY	13817323	.	G	A	55.48	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36678	chrY	13817440	.	C	G	136.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36679	chrY	13817581	.	C	T	162.97	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
36680	chrY	13817596	.	T	G	133.53	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
36681	chrY	13817597	.	C	G	240.83	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
36682	chrY	13817642	.	G	C	52.06	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
36683	chrY	13817647	.	C	A	155.77	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
36684	chrY	13817650	.	A	T	110.05	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
36685	chrY	13817660	.	T	C	179.78	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
36686	chrY	13817662	.	C	G	42.93	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
36687	chrY	13817818	.	G	C	50.81	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
36688	chrY	13817823	.	G	C	50.06	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
36689	chrY	13817982	.	A	C	161.44	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
36690	chrY	13818202	.	G	T	128.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36691	chrY	13818253	.	A	G	31.07	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36692	chrY	13818258	.	G	T	31.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36693	chrY	13818262	.	T	C	89.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36694	chrY	13818365	.	A	C	131.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36695	chrY	13818367	.	T	C	138.22	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
36696	chrY	13818633	.	G	A	234.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36697	chrY	13818636	.	T	C	237.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36698	chrY	13818725	.	G	A	99.68	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
36699	chrY	13818750	.	G	T	364.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36700	chrY	13818751	.	T	C	635.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36701	chrY	13818752	.	G	A	93.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36702	chrY	13818754	.	A	T	368.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36703	chrY	13818761	.	A	T	837.89	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36704	chrY	13818762	.	G	A	833.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36705	chrY	13818767	.	C	G	818.90	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36706	chrY	13818768	.	G	C	97.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36707	chrY	13818775	.	A	G	810.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36708	chrY	13818783	.	G	T	91.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=

36709	chrY	13818786	.	C	T	1392.40	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
36710	chrY	13818788	.	G	C	639.27	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36711	chrY	13818790	.	A	G	627.14	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36712	chrY	13818792	.	G	T	140.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36713	chrY	13818795	.	A	C	907.24	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
36714	chrY	13818796	.	A	T	56.53	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
36715	chrY	13818798	.	G	A	653.90	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36716	chrY	13818803	.	G	C	151.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36717	chrY	13818817	.	T	G	402.94	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
36718	chrY	13818821	.	A	T	170.22	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36719	chrY	13818824	.	T	A	120.11	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
36720	chrY	13818826	.	T	A	69.56	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36721	chrY	13819007	.	G	T	803.44	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36722	chrY	13819090	.	C	A	928.76	PASS	AC=6;AF=0.091;AN=66;DP=802;FS=0.0
36723	chrY	13819234	.	C	A	34.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36724	chrY	13819241	.	C	G	32.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36725	chrY	13819252	.	C	G	34.91	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36726	chrY	13819271	.	C	T	193.25	PASS	AC=2;AF=0.029;AN=68;DP=476;FS=0.0
36727	chrY	13819487	.	C	G	43.02	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36728	chrY	13819492	.	T	G	50	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36729	chrY	13819493	.	T	G	43.86	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36730	chrY	13819497	.	G	T	45.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36731	chrY	13819502	.	T	G	50.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36732	chrY	13819513	.	T	G	85.65	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36733	chrY	13819612	.	G	A	671.82	PASS	AC=6;AF=0.088;AN=68;DP=592;FS=0.0
36734	chrY	13819832	.	A	C	32.60	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
36735	chrY	13819974	.	G	A	209.48	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36736	chrY	13820273	.	C	T	81.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36737	chrY	13820280	.	G	A	78.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36738	chrY	13820283	.	T	G	79.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36739	chrY	13820289	.	G	T	133.97	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36740	chrY	13820299	.	T	G	80.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36741	chrY	13820303	.	T	A	71.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36742	chrY	13820311	.	A	T	61.44	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36743	chrY	13820320	.	G	A	65.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36744	chrY	13820481	.	A	C	154.03	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36745	chrY	13820917	.	T	A	475.34	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
36746	chrY	13820922	.	A	T	532.79	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=0
36747	chrY	13820926	.	A	G	442.43	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
36748	chrY	13820929	.	G	T	401.02	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
36749	chrY	13820932	.	T	A	442.73	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
36750	chrY	13820958	.	G	A	942.62	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
36751	chrY	13820997	.	T	A	96.51	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
36752	chrY	13820999	.	C	A	195.15	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
36753	chrY	13821231	.	C	T	84.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36754	chrY	13822123	.	A	G	42.41	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
36755	chrY	13822152	.	G	C	118.56	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
36756	chrY	13822155	.	A	C	109.97	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
36757	chrY	13822157	.	T	G	66.89	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
36758	chrY	13822158	.	T	G	68.91	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
36759	chrY	13822196	.	T	C	134.06	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
36760	chrY	13822231	.	A	T	89.10	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36761	chrY	13822237	.	T	G	113.08	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36762	chrY	13822256	.	A	T	162.32	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36763	chrY	13822263	.	T	G	134.60	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
36764	chrY	13822266	.	A	T	136.39	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
36765	chrY	13822287	.	C	T	122.42	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
36766	chrY	13822292	.	A	G	204.35	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
36767	chrY	13822356	.	A	T	1717.97	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
36768	chrY	13822383	.	T	G	2158.55	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
36769	chrY	13822392	.	C	A	2297.66	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36770	chrY	13822403	.	G	A	2243.29	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36771	chrY	13822406	.	T	C	2156.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36772	chrY	13822407	.	C	T	151.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36773	chrY	13822416	.	T	A	121.71	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36774	chrY	13822418	.	T	G	142.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36775	chrY	13822423	.	G	C	123.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36776	chrY	13822430	.	A	T	2115.08	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36777	chrY	13822435	.	C	T	2241.21	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36778	chrY	13822439	.	G	A	2294.58	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
36779	chrY	13822446	.	C	T	2349.73	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
36780	chrY	13822448	.	G	T	2165.36	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36781	chrY	13822452	.	C	G	2113.91	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36782	chrY	13822453	.	A	G	2128.04	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36783	chrY	13822459	.	G	A	2139.09	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
36784	chrY	13822461	.	T	C	2125.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

36785	chrY	13822471	.	T	A	2048.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36786	chrY	13822475	.	T	A	1972.91	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
36787	chrY	13822483	.	A	G	1794.12	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36788	chrY	13822493	.	C	G	1447.60	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
36789	chrY	13822501	.	T	C	1278.28	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36790	chrY	13822503	.	A	G	1198.12	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36791	chrY	13822516	.	T	A	996.71	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36792	chrY	13822518	.	G	A	951.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36793	chrY	13822526	.	G	A	857.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36794	chrY	13822532	.	T	A	787	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36795	chrY	13822533	.	A	C	782.43	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36796	chrY	13822541	.	T	C	677.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36797	chrY	13822556	.	A	T	496.84	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
36798	chrY	13822557	.	T	G	412.95	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
36799	chrY	13822571	.	G	C	290.62	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36800	chrY	13822582	.	T	C	290.43	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36801	chrY	13822594	.	C	A	130.94	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36802	chrY	13822631	.	A	T	81.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36803	chrY	13822632	.	G	T	35.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36804	chrY	13822638	.	G	C	504.70	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36805	chrY	13822640	.	T	C	51.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36806	chrY	13822642	.	C	T	502.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36807	chrY	13822652	.	G	C	141.86	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
36808	chrY	13822655	.	A	C	328.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36809	chrY	13822667	.	G	T	30.04	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
36810	chrY	13822668	.	T	G	31.92	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
36811	chrY	13822833	.	T	G	11482.99	PASS	AC=68;AF=1.00;AN=68;DP=39
36812	chrY	13822877	.	A	G	42.84	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
36813	chrY	13822908	.	C	T	5429.72	PASS	AC=46;AF=0.793;AN=58;DP=289;FS=8.
36814	chrY	13822989	.	A	C	62.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36815	chrY	13823244	.	G	A	452.82	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36816	chrY	13823249	.	G	A	424.36	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36817	chrY	13823264	.	G	A	428.61	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
36818	chrY	13823270	.	A	C	333.56	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36819	chrY	13823285	.	G	A	249.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36820	chrY	13823725	.	T	C	36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36821	chrY	13823886	.	C	T	136.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36822	chrY	13823896	.	A	G	108.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36823	chrY	13823906	.	G	T	118.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36824	chrY	13823919	.	T	A	129.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36825	chrY	13823925	.	A	T	94.46	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
36826	chrY	13823961	.	C	G	44.18	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
36827	chrY	13824166	.	C	T	47.96	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
36828	chrY	13824171	.	T	A	58.62	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
36829	chrY	13824200	.	A	T	390.96	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
36830	chrY	13824201	.	A	G	390.69	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
36831	chrY	13824204	.	G	A	381.67	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
36832	chrY	13824215	.	A	T	501.22	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
36833	chrY	13824228	.	A	T	315.27	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36834	chrY	13824235	.	T	A	401.76	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36835	chrY	13824237	.	T	G	767.36	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
36836	chrY	13824239	.	T	A,C	682.09	PASS	AC=3,1;AF=0.048,0.016;AN=62;BaseQ
36837	chrY	13824241	.	C	A	230.82	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
36838	chrY	13824251	.	G	A	495.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36839	chrY	13824256	.	T	C	756.15	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36840	chrY	13824257	.	G	C,A	671.57	PASS	AC=3,1;AF=0.045,0.015;AN=66;BaseQ
36841	chrY	13824276	.	A	C	615.68	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36842	chrY	13824290	.	A	T	833.73	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
36843	chrY	13824296	.	T	G	945.92	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
36844	chrY	13824301	.	G	A	983.72	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36845	chrY	13824303	.	A	T	982.85	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
36846	chrY	13824310	.	T	A	964.77	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36847	chrY	13824325	.	T	A	1137.98	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36848	chrY	13824331	.	C	T	1165.25	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36849	chrY	13824359	.	A	C	894.62	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36850	chrY	13824360	.	G	T	937.07	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
36851	chrY	13824367	.	C	A	405.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36852	chrY	13824370	.	T	C	320.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36853	chrY	13824374	.	A	C	1041.21	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
36854	chrY	13824377	.	G	A	314.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36855	chrY	13824380	.	C	T	1126.39	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
36856	chrY	13824381	.	A	G	1063.63	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
36857	chrY	13824391	.	T	G	458.90	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
36858	chrY	13824395	.	T	C,A	751.12	PASS	AC=3,2;AF=0.044,0.029;AN=68;BaseQ
36859	chrY	13824396	.	G	A	493.75	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
36860	chrY	13824405	.	T	A	419.07	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=

36861	chrY	13824406	.	A	C	1505.93	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
36862	chrY	13824411	.	G	A	419.75	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36863	chrY	13824421	.	C	A	1571.81	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
36864	chrY	13824447	.	G	A,C	1739.16	PASS	AC=10,3;AF=0.143,0.043;AN=70;Base
36865	chrY	13824450	.	A	T	2840.57	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
36866	chrY	13824451	.	G	A	138.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36867	chrY	13824460	.	T	C	1120.64	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36868	chrY	13824466	.	G	T	1518.78	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
36869	chrY	13824470	.	A	T	3393.65	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
36870	chrY	13824472	.	G	T	1713.57	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
36871	chrY	13824477	.	G	A	390.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36872	chrY	13824482	.	C	G	368.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36873	chrY	13824491	.	A	G	4118.28	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
36874	chrY	13824495	.	T	A,C	2598.41	PASS	AC=9,2;AF=0.136,0.030;AN=66;BaseQ
36875	chrY	13824502	.	A	T	2452.15	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
36876	chrY	13824506	.	T	C	4890.90	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
36877	chrY	13824521	.	C	A	2578.59	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
36878	chrY	13824522	.	A	G	5825.40	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum=
36879	chrY	13824531	.	T	G	2604.77	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
36880	chrY	13824555	.	T	G	2261.14	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
36881	chrY	13824556	.	G	T	2258.08	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
36882	chrY	13824570	.	T	C	3085.62	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
36883	chrY	13824577	.	G	T	3151.60	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
36884	chrY	13824581	.	A	T	1777.33	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
36885	chrY	13824586	.	G	A	1358.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
36886	chrY	13824600	.	A	C	630.46	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36887	chrY	13824604	.	T	A	5428.86	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
36888	chrY	13824606	.	T	G	5422.71	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
36889	chrY	13824612	.	A	T	478.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36890	chrY	13824615	.	A	G	4487.86	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
36891	chrY	13824618	.	T	A	5250.19	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
36892	chrY	13824619	.	T	A	476.09	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
36893	chrY	13824630	.	T	C	382.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36894	chrY	13824635	.	C	T	4285.43	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum=
36895	chrY	13824642	.	A	G	3467.77	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
36896	chrY	13824657	.	G	C	2437.49	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36897	chrY	13824660	.	T	G	64.30	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
36898	chrY	13824665	.	A	T	2237.32	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
36899	chrY	13824667	.	A	G	2070.72	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
36900	chrY	13824670	.	C	T	1960.27	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
36901	chrY	13824672	.	A	G	1608.35	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36902	chrY	13824696	.	G	C	345.29	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36903	chrY	13824697	.	G	A	345.58	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36904	chrY	13824699	.	T	A	334.86	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
36905	chrY	13824706	.	T	G	94.27	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
36906	chrY	13824908	.	C	T	136.87	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
36907	chrY	13824995	.	A	T	58816.94	my_snp_filter	AC=5;AF=0.119;AN=
36908	chrY	13825001	.	C	A	56383.33	my_snp_filter	AC=4;AF=0.100;AN=
36909	chrY	13825007	.	T	G	57586.20	my_snp_filter	AC=5;AF=0.125;AN=
36910	chrY	13825019	.	A	G	6862.14	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
36911	chrY	13825098	.	C	G	114.98	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36912	chrY	13825108	.	T	A,G	6492.38	PASS	AC=1,1;AF=0.018,0.018;AN=56;BaseQ
36913	chrY	13825126	.	G	T	2535.57	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
36914	chrY	13825130	.	A	T	2196.35	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36915	chrY	13825135	.	C	A	3399.89	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36916	chrY	13825138	.	G	A	1735.87	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36917	chrY	13825142	.	G	C	1423.87	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36918	chrY	13825143	.	C	G	2102.99	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36919	chrY	13825145	.	A	G	323.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36920	chrY	13825157	.	G	A	425.57	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36921	chrY	13825161	.	C	T	145.98	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36922	chrY	13825162	.	T	A	131.09	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
36923	chrY	13825184	.	A	T	234.13	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
36924	chrY	13825186	.	A	T	233.95	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
36925	chrY	13825228	.	G	C	83.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36926	chrY	13825466	.	T	G	32.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36927	chrY	13825470	.	C	A	627.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36928	chrY	13825471	.	T	A	618.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36929	chrY	13825478	.	G	A	40.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
36930	chrY	13825487	.	T	C	861.44	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
36931	chrY	13825488	.	G	A	695.36	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
36932	chrY	13825493	.	A	T	777.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36933	chrY	13825498	.	G	A	833.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
36934	chrY	13825500	.	C	T	1011.67	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36935	chrY	13825502	.	C	G	872.41	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36936	chrY	13825508	.	A	G	1192.27	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=

36937	chrY	13825518	.	G	A	864.18	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
36938	chrY	13825521	.	T	C	62.23	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36939	chrY	13825531	.	C	T	1129.27	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
36940	chrY	13825533	.	G	A	36.25	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
36941	chrY	13825535	.	A	G	967.19	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36942	chrY	13825542	.	G	A	1035.12	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36943	chrY	13825544	.	C	A	1284.45	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
36944	chrY	13825547	.	T	A	129.13	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
36945	chrY	13825551	.	T	C	114.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36946	chrY	13825566	.	T	A	1135.53	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36947	chrY	13825568	.	G	A	1246.34	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
36948	chrY	13825577	.	T	C,A	966.19	PASS	AC=14,1;AF=0.212,0.015;AN=66;Base
36949	chrY	13825586	.	C	T,A	914.60	PASS	AC=4,4;AF=0.063,0.063;AN=64;BaseQ
36950	chrY	13825588	.	G	C	447.66	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36951	chrY	13825590	.	C	A	409.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36952	chrY	13825591	.	C	T	412.41	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36953	chrY	13825592	.	G	A	94.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36954	chrY	13825603	.	G	A	437.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36955	chrY	13825605	.	C	A	439.94	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36956	chrY	13825606	.	T	A	439.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36957	chrY	13825611	.	T	G	346.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36958	chrY	13825613	.	G	A	346.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36959	chrY	13825616	.	C	T	10963.01	PASS	AC=25;AF=0.368;AN=68;Base
36960	chrY	13825617	.	G	A	53.33	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
36961	chrY	13825620	.	T	C	11553.86	PASS	AC=25;AF=0.368;AN=68;Base
36962	chrY	13825622	.	T	C	5873.41	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
36963	chrY	13825625	.	A	C	119.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36964	chrY	13825626	.	A	T	12443.39	PASS	AC=26;AF=0.394;AN=66;Base
36965	chrY	13825628	.	T	C	221.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
36966	chrY	13825632	.	T	G	12879.14	PASS	AC=26;AF=0.382;AN=68;Base
36967	chrY	13825634	.	T	A	12977.15	PASS	AC=26;AF=0.382;AN=68;Base
36968	chrY	13825635	.	T	C	66.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36969	chrY	13825639	.	A	T	164.39	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
36970	chrY	13825641	.	T	A	6700.76	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
36971	chrY	13825642	.	T	G	74.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36972	chrY	13825647	.	A	T	72.45	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
36973	chrY	13825652	.	C	T	7055.72	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
36974	chrY	13825657	.	G	A	73.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36975	chrY	13825661	.	T	A	82.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36976	chrY	13825663	.	A	T,G	10664.74	PASS	AC=13,17;AF=0.191,0.250;A
36977	chrY	13825668	.	G	A	5496.75	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
36978	chrY	13825696	.	T	A	1012.46	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
36979	chrY	13825711	.	A	T	815.23	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
36980	chrY	13825712	.	G	T	816.32	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
36981	chrY	13825716	.	T	C	753.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
36982	chrY	13825728	.	C	T	498.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
36983	chrY	13825731	.	G	C	1672.36	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
36984	chrY	13825732	.	G	A	477.31	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
36985	chrY	13825743	.	A	G	1372.84	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
36986	chrY	13825756	.	C	T	1238.04	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
36987	chrY	13825767	.	C	A	351.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36988	chrY	13825782	.	G	A	225.32	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
36989	chrY	13825786	.	G	C	281.77	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
36990	chrY	13825793	.	C	A,*	553.86	PASS	AC=1,3;AF=0.021,0.063;AN=48;BaseQ
36991	chrY	13825801	.	G	T	133.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36992	chrY	13825806	.	C	A	145.37	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
36993	chrY	13825810	.	T	A	123.63	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
36994	chrY	13825812	.	C	G	129.21	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
36995	chrY	13825957	.	C	G	67.62	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
36996	chrY	13825963	.	A	T	63.88	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36997	chrY	13825965	.	A	T	67.08	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
36998	chrY	13825976	.	T	A	57.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
36999	chrY	13826012	.	T	A	116.13	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
37000	chrY	13826015	.	T	A	115.02	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37001	chrY	13826021	.	A	G	164.28	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
37002	chrY	13826036	.	A	G	109.56	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37003	chrY	13826044	.	C	A	53.81	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37004	chrY	13826077	.	C	A	33.40	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37005	chrY	13826087	.	A	G	36.11	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37006	chrY	13826100	.	T	A	930.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37007	chrY	13826400	.	A	G	68.18	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
37008	chrY	13826408	.	T	A	85.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37009	chrY	13826421	.	T	G	40.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37010	chrY	13826423	.	C	T	37.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37011	chrY	13826426	.	G	A	32.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37012	chrY	13826436	.	A	G	39.11	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

37013	chrY	13826545	.	T	G	40.07	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37014	chrY	13826552	.	G	A	40.73	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37015	chrY	13826558	.	A	T	40.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37016	chrY	13826636	.	A	T	121.05	PASS	AC=2;AF=0.030;AN=66;DP=659;FS=0.0
37017	chrY	13826653	.	G	T,*	749.66	PASS	AC=7,1;AF=0.113,0.016;AN=62;BaseQ
37018	chrY	13826662	.	A	T	670.23	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
37019	chrY	13826665	.	A	C	378.98	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
37020	chrY	13826678	.	G	C,T	1124.66	PASS	AC=3,5;AF=0.050,0.083;AN=60;BaseQ
37021	chrY	13826690	.	A	G	696.75	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
37022	chrY	13826694	.	G	C	1950.64	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
37023	chrY	13826695	.	C	G	1947.91	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
37024	chrY	13826713	.	T	G	2540.53	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
37025	chrY	13827069	.	G	A	221.83	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37026	chrY	13827095	.	A	T	43.30	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37027	chrY	13827168	.	G	A	146.25	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37028	chrY	13827174	.	G	A	117.46	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37029	chrY	13827214	.	T	G	143.45	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37030	chrY	13827218	.	C	G	145.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37031	chrY	13827219	.	G	C	144.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37032	chrY	13827229	.	G	T	140.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37033	chrY	13827234	.	G	A	138.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37034	chrY	13827241	.	T	A	131.95	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37035	chrY	13827248	.	T	G	92.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37036	chrY	13827251	.	A	G	87.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37037	chrY	13827257	.	T	A	93.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37038	chrY	13827258	.	T,2	T,A	208.06	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ
37039	chrY	13827261	.	T	A	94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37040	chrY	13827262	.	T	G	90.86	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37041	chrY	13827273	.	T	G	92.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37042	chrY	13827275	.	T	G	102.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37043	chrY	13827284	.	A	G	102.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37044	chrY	13827294	.	A	G	102.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37045	chrY	13827308	.	G	T	39.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37046	chrY	13827311	.	A	T	41.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37047	chrY	13827488	.	A	G	244	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37048	chrY	13827492	.	C	T	244.49	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37049	chrY	13827493	.	A	G	243.68	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37050	chrY	13827646	.	G	A	1017.08	PASS	AC=6;AF=0.088;AN=68;DP=543;FS=0.0
37051	chrY	13827879	.	A	T	100.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37052	chrY	13827892	.	A	T	192.17	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
37053	chrY	13827901	.	C	T	129.21	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37054	chrY	13827905	.	T	A	128.96	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37055	chrY	13827914	.	T	A	249.83	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
37056	chrY	13827916	.	C	A	250.45	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37057	chrY	13827917	.	G	A	86.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37058	chrY	13827920	.	A	T	293.12	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
37059	chrY	13827925	.	A	T	166.84	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37060	chrY	13827926	.	G	A	38.34	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37061	chrY	13827933	.	A	G	45.64	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37062	chrY	13827948	.	A	T	51.81	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37063	chrY	13827956	.	T	G	194.64	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37064	chrY	13827957	.	T	G	262.68	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37065	chrY	13827961	.	T	G	195.87	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
37066	chrY	13827965	.	T	A	147.92	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
37067	chrY	13827972	.	G	A	63.04	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
37068	chrY	13827976	.	T	G	174.63	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
37069	chrY	13828085	.	T	G	226.43	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
37070	chrY	13828097	.	A	C	293.34	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37071	chrY	13828106	.	T	C	358.62	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
37072	chrY	13828111	.	T	G	291.06	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
37073	chrY	13828114	.	A	T	252.39	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37074	chrY	13828115	.	T	C	53.61	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
37075	chrY	13828120	.	C	T	185.06	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
37076	chrY	13828132	.	A	G	155.22	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
37077	chrY	13828135	.	T	A	70.81	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
37078	chrY	13828146	.	C	G	125.61	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
37079	chrY	13828348	.	T	C	110.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37080	chrY	13828350	.	C	G	114.58	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37081	chrY	13828356	.	A	G	142.01	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37082	chrY	13828387	.	A	G	142.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37083	chrY	13828390	.	G	T	479.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37084	chrY	13828400	.	G	A,T	425.24	PASS	AC=1,2;AF=0.016,0.031;AN=64;BaseQ
37085	chrY	13828401	.	T	G	419.89	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37086	chrY	13828402	.	G	A	85.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37087	chrY	13828411	.	G	T	165.91	PASS	AC=4;AF=0.059;AN=68;DP=434;FS=0.0
37088	chrY	13828432	.	T	G	68.43	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=

37089	chrY	13828535	.	A	T	69.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37090	chrY	13828542	.	G	T	128.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37091	chrY	13828550	.	T	C	116.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37092	chrY	13828552	.	C	G	244.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37093	chrY	13828566	.	A	G	325.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37094	chrY	13828571	.	T	C	326.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37095	chrY	13828580	.	T	A	350.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37096	chrY	13828621	.	T	C	2126.67	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
37097	chrY	13828635	.	C	T	3002.07	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
37098	chrY	13828636	.	A	G	3086.07	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
37099	chrY	13828649	.	A	T	3954.29	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
37100	chrY	13828650	.	C	T	3904.46	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
37101	chrY	13828656	.	T	G	4129.50	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
37102	chrY	13828660	.	G	C	4075.06	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
37103	chrY	13828687	.	A	T	5356.64	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
37104	chrY	13828698	.	A	T	5967.07	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
37105	chrY	13828699	.	C	T	6284.43	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
37106	chrY	13828705	.	T	C	6449.04	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=
37107	chrY	13828740	.	G	A	7216.59	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
37108	chrY	13828744	.	T	A	7244	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
37109	chrY	13828761	.	G	A	396.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37110	chrY	13828773	.	C	A,G	5964.39	PASS	AC=21,3;AF=0.300,0.043;AN=70;BaseQ
37111	chrY	13828789	.	A	C	4808.03	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
37112	chrY	13828795	.	T	G	4825.67	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
37113	chrY	13828802	.	A	T	337.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37114	chrY	13828804	.	T	G	3586.98	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
37115	chrY	13828806	.	G	A	4706.22	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
37116	chrY	13828808	.	G	A	3407.10	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
37117	chrY	13828811	.	G	C	2664.69	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
37118	chrY	13828813	.	T	C	2891.75	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
37119	chrY	13828819	.	C	G	238.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37120	chrY	13828821	.	G	T	190.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37121	chrY	13828828	.	T	A,C	1884.13	PASS	AC=12,2;AF=0.171,0.029;AN=70;BaseQ
37122	chrY	13828831	.	G	A	1414.98	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
37123	chrY	13828834	.	T	A	1533.59	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
37124	chrY	13828840	.	G	A	323.47	PASS	AC=2;AF=0.029;AN=70;DP=615;FS=0.0
37125	chrY	13828842	.	C	T	1023.10	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
37126	chrY	13828848	.	T	A,*	526.35	PASS	AC=5,1;AF=0.071,0.014;AN=70;BaseQ
37127	chrY	13828860	.	C	T	207.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37128	chrY	13828861	.	A	G	329.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37129	chrY	13828864	.	T	A	96.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37130	chrY	13828880	.	G	C	106.64	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37131	chrY	13829088	.	A	G	95.31	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37132	chrY	13829104	.	A	T	53.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37133	chrY	13829380	.	G	A	875.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37134	chrY	13830250	.	A	G	120.87	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
37135	chrY	13830271	.	A	G	114.98	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
37136	chrY	13830273	.	A	T	118.91	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
37137	chrY	13830274	.	G	A	43.98	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
37138	chrY	13830293	.	T	A	63.80	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
37139	chrY	13830666	.	T	A	49.59	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37140	chrY	13830667	.	T	C	102.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37141	chrY	13830669	.	A	C	95.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37142	chrY	13830675	.	G	A	81.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37143	chrY	13830676	.	A	C	38.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37144	chrY	13830679	.	G	A	1146.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37145	chrY	13830682	.	A	C	42.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37146	chrY	13830684	.	G	C	43.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37147	chrY	13830685	.	G	T	45.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37148	chrY	13830687	.	A	G	1136.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37149	chrY	13830689	.	G	A	1016.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37150	chrY	13830723	.	C	G,*	1086.08	PASS	AC=3,7;AF=0.043,0.100;AN=70;BaseQ
37151	chrY	13830728	.	T	A,*	1008.66	PASS	AC=4,7;AF=0.057,0.100;AN=70;BaseQ
37152	chrY	13830769	.	C	T	392.96	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37153	chrY	13830804	.	T	G	7750.87	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
37154	chrY	13830805	.	T	A	7740.87	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
37155	chrY	13830810	.	T	C	7706.06	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
37156	chrY	13830814	.	T	A	7749.19	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
37157	chrY	13830815	.	T	G	7743.01	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum=
37158	chrY	13830821	.	T	A	7875.92	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
37159	chrY	13830822	.	A	G	7806.47	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
37160	chrY	13830826	.	A	C	7935.51	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=
37161	chrY	13830857	.	T	C	1014.95	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
37162	chrY	13830865	.	A	G	596.67	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
37163	chrY	13830867	.	A	T	445.59	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
37164	chrY	13830872	.	A	C	32.97	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ

37165	chrY	13831090	.	G	T	123.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37166	chrY	13831103	.	C	T	133.80	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37167	chrY	13831108	.	T	A	108.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37168	chrY	13831270	.	G	A	1508.28	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37169	chrY	13831280	.	G	C	1476.99	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37170	chrY	13831296	.	A	C	1464.98	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37171	chrY	13831311	.	G	A	347.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37172	chrY	13831428	.	C	T	123.04	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37173	chrY	13831432	.	A	G	79.95	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37174	chrY	13831675	.	T	C	1002.33	PASS	AC=1;AF=0.017;AN=58;DP=643;FS=0.0
37175	chrY	13831676	.	A	T	1003.87	PASS	AC=1;AF=0.018;AN=56;DP=644;FS=0.0
37176	chrY	13831691	.	C	A	990.53	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
37177	chrY	13831877	.	G	C	289.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37178	chrY	13831910	.	C	T	1193.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37179	chrY	13831922	.	C	A	1146.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37180	chrY	13831925	.	C	T	1158.58	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
37181	chrY	13831930	.	A	T	1162.96	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37182	chrY	13831942	.	G	T	993.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37183	chrY	13832160	.	G	A	2528.45	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
37184	chrY	13832238	.	G	T	42.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37185	chrY	13832240	.	G	A	41.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37186	chrY	13832243	.	T	C	41.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37187	chrY	13832287	.	T	G	40.75	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37188	chrY	13832547	.	G	A	32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37189	chrY	13832661	.	C	T	1199.66	PASS	AC=6;AF=0.100;AN=60;DP=701;FS=0.0
37190	chrY	13833091	.	T	C	473.66	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
37191	chrY	13833096	.	G	T	388.11	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
37192	chrY	13833098	.	C	A	378.96	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
37193	chrY	13833106	.	C	A	341.58	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37194	chrY	13833115	.	C	T	340.21	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37195	chrY	13833119	.	T	A	343.56	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37196	chrY	13833122	.	G	C	340.49	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37197	chrY	13833135	.	A	C	336.81	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37198	chrY	13833136	.	A	T	336.74	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37199	chrY	13833142	.	A	G	82.20	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37200	chrY	13833242	.	A	G	42.88	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
37201	chrY	13833257	.	A	G	1935.33	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37202	chrY	13833269	.	A	G	157.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37203	chrY	13833271	.	T	G	11783.33	my_snp_filter	AC=19;AF=0.475;AN
37204	chrY	13833275	.	T	G	3507.10	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
37205	chrY	13833284	.	A	G	3462.45	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
37206	chrY	13833286	.	G	T	21458.07	PASS	AC=22;AF=0.500;AN=44;Base
37207	chrY	13833289	.	G	A	25407.88	PASS	AC=21;AF=0.525;AN=40;Base
37208	chrY	13833304	.	A	G	3290.13	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
37209	chrY	13833307	.	G	A	39060.88	PASS	AC=21;AF=0.525;AN=40;Base
37210	chrY	13833315	.	T	C	38078.45	PASS	AC=21;AF=0.525;AN=40;Base
37211	chrY	13833317	.	G	A	19529.95	PASS	AC=14;AF=0.438;AN=32;Base
37212	chrY	13833320	.	T	G	81.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37213	chrY	13833352	.	A	G	238.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37214	chrY	13833354	.	C	A	205.20	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
37215	chrY	13833356	.	G	C	239.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37216	chrY	13833370	.	A	G	2050.46	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
37217	chrY	13833372	.	T	G	1957.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
37218	chrY	13833379	.	A	T	442.97	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37219	chrY	13833386	.	G	A	406.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37220	chrY	13833390	.	G	C	437.23	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
37221	chrY	13833398	.	A	T	294.21	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37222	chrY	13833892	.	C	G	94	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37223	chrY	13833901	.	G	T	114.21	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37224	chrY	13833909	.	T	A	295.49	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
37225	chrY	13834067	.	A	G	8206.62	PASS	AC=46;AF=0.657;AN=70;DP=584;FS=0.
37226	chrY	13834532	.	G	T	234.74	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37227	chrY	13834541	.	G	T	228.91	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37228	chrY	13834674	.	C	A	67.72	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
37229	chrY	13834694	.	G	A	110.81	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
37230	chrY	13835281	.	A	T	207.51	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
37231	chrY	13835312	.	A	C	52.05	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
37232	chrY	13835343	.	A	T	153.92	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
37233	chrY	13835346	.	A	C	91.54	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
37234	chrY	13835410	.	A	G	50.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37235	chrY	13835422	.	A	G	40.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37236	chrY	13835440	.	A	G	40.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37237	chrY	13835865	.	A	G	669.88	PASS	AC=2;AF=0.029;AN=68;DP=443;FS=0.0
37238	chrY	13835972	.	A	T	323.09	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37239	chrY	13836033	.	T	G	64.15	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
37240	chrY	13836038	.	A	G	473.15	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=

37241	chrY	13836042	.	T	A	468.07	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
37242	chrY	13836044	.	C	T	411.35	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
37243	chrY	13836064	.	G	A	363.84	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
37244	chrY	13836066	.	G	A	329.80	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
37245	chrY	13836078	.	C	T	415.22	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
37246	chrY	13836079	.	C	G	1043.62	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
37247	chrY	13836084	.	G	T	114.68	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37248	chrY	13836090	.	T	A	960.98	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37249	chrY	13836109	.	A	G	84.53	PASS	AC=1;AF=0.014;AN=70;DP=564;FS=0.0
37250	chrY	13836167	.	C	A	321.80	PASS	AC=2;AF=0.029;AN=70;DP=569;FS=0.0
37251	chrY	13836292	.	C	T	32.76	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
37252	chrY	13836293	.	A	G	33.65	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
37253	chrY	13836299	.	T	G	205.71	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37254	chrY	13836300	.	T	A	205.71	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37255	chrY	13836322	.	C	T	201.81	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37256	chrY	13836329	.	G	A	199.63	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37257	chrY	13836331	.	A	T	188.64	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37258	chrY	13836337	.	T	A	207.05	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37259	chrY	13836339	.	G	C	181.34	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37260	chrY	13836346	.	A	T	172.52	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37261	chrY	13836349	.	A	T	190.38	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37262	chrY	13836350	.	A	G	38.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37263	chrY	13836368	.	G	C	38.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37264	chrY	13836370	.	A	G	55.53	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37265	chrY	13836374	.	C	G	72.15	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37266	chrY	13836384	.	G	T	32.39	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37267	chrY	13836386	.	A	C	36.02	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37268	chrY	13836387	.	A	T	104.91	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37269	chrY	13836389	.	G	C	43.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37270	chrY	13836393	.	G	T	32.58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37271	chrY	13836394	.	G	T	34.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37272	chrY	13836399	.	C	G	37.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37273	chrY	13836402	.	T	C	293.15	PASS	AC=4;AF=0.059;AN=68;DP=448;FS=0.0
37274	chrY	13836703	.	G	A	36.30	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37275	chrY	13836757	.	C	G	138.23	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
37276	chrY	13836768	.	G	A	74.35	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37277	chrY	13836769	.	A	T	75.85	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37278	chrY	13836777	.	G	T	86.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37279	chrY	13836781	.	C	T	95.40	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37280	chrY	13836782	.	G	T	88.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37281	chrY	13836792	.	G	A	64.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37282	chrY	13836799	.	T	A	36	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
37283	chrY	13836806	.	C	T	36.77	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37284	chrY	13836807	.	A	G	37.13	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37285	chrY	13836811	.	C	T	37.35	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37286	chrY	13836812	.	G	A	33.21	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
37287	chrY	13836818	.	A	G	84.69	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37288	chrY	13836819	.	T	A	85.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37289	chrY	13836822	.	T	G	171.53	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37290	chrY	13836823	.	T	G	172.15	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37291	chrY	13836843	.	G	C	494.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37292	chrY	13836853	.	A	T	2052.99	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37293	chrY	13836863	.	A	G	2107.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37294	chrY	13836876	.	T	A	2374.70	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37295	chrY	13836888	.	G	C	2209.42	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37296	chrY	13836893	.	G	A	2202.75	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37297	chrY	13836894	.	A	C	2198.11	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37298	chrY	13836907	.	A	G	2674.09	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37299	chrY	13836922	.	G	A	2274.36	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37300	chrY	13836936	.	C	G	373.91	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
37301	chrY	13836967	.	G	C	457.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37302	chrY	13836970	.	G	T	458.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37303	chrY	13836983	.	T	A	512.46	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37304	chrY	13836989	.	A	T	140.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37305	chrY	13836990	.	A	C	117.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37306	chrY	13837002	.	T	C	106.44	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
37307	chrY	13837006	.	T	G	113.64	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37308	chrY	13837010	.	A	T	109.29	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37309	chrY	13837015	.	A	T	59.93	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
37310	chrY	13837030	.	T	A	1085.04	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37311	chrY	13837380	.	C	T	31.15	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
37312	chrY	13837470	.	A	T	107.11	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
37313	chrY	13837472	.	A	G	57.09	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37314	chrY	13837500	.	A	C	47.77	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
37315	chrY	13837525	.	C	T	36.10	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
37316	chrY	13837576	.	T	G	48.76	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ

37317	chrY	13837682	.	T	A	544.92	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37318	chrY	13838469	.	T	A	151.16	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37319	chrY	13838497	.	G	C	36.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37320	chrY	13838745	.	A	G	338.04	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
37321	chrY	13838787	.	C	A	25422.88	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
37322	chrY	13838794	.	C	T	24939.45	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
37323	chrY	13838801	.	G	T	19190.30	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
37324	chrY	13838819	.	T	A	6082.24	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
37325	chrY	13838821	.	A	T	16425.13	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
37326	chrY	13838824	.	A	T	14697.53	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
37327	chrY	13838826	.	C	G	14660.36	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
37328	chrY	13838885	.	A	G	333.42	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37329	chrY	13838951	.	T	G	75.66	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
37330	chrY	13838955	.	G	A	37.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37331	chrY	13838961	.	G	T	39.92	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37332	chrY	13838964	.	T	A	36.72	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37333	chrY	13838965	.	C	T	182.99	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
37334	chrY	13838968	.	A	T	47.86	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37335	chrY	13838969	.	T	C	37.65	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37336	chrY	13838970	.	G	A	50.16	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37337	chrY	13838979	.	A	T	64.86	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37338	chrY	13838984	.	T	A	45.37	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37339	chrY	13838991	.	G	A	58.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37340	chrY	13838993	.	A	C	53.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37341	chrY	13839000	.	G	A	56.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37342	chrY	13839181	.	A	C	5102.86	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
37343	chrY	13839194	.	C	T	5088.75	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQRankSum=
37344	chrY	13839211	.	A	G	43.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37345	chrY	13839224	.	T	C	9909.72	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQRankSum=
37346	chrY	13839230	.	G	A	155	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37347	chrY	13839231	.	G	C	9100.37	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
37348	chrY	13839233	.	A	G	13148.83	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37349	chrY	13839236	.	G	C	99.11	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37350	chrY	13839241	.	G	A	143.50	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQRankSum=
37351	chrY	13839244	.	A	T	12406.91	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
37352	chrY	13839246	.	G	A	11066.42	my_snp_filter	AC=3;AF=0.048;AN=66;BaseQRankSum=
37353	chrY	13839249	.	C	T	211.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37354	chrY	13839251	.	G	T	164.37	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37355	chrY	13839256	.	C	G	301.33	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
37356	chrY	13839270	.	G	T	1305.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
37357	chrY	13839276	.	C	T	6965.46	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
37358	chrY	13839285	.	T	C	2310.70	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
37359	chrY	13839287	.	A	T	56.30	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37360	chrY	13839291	.	T	G	2738.88	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
37361	chrY	13839300	.	T	C	2740.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37362	chrY	13839302	.	A	C	2741.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37363	chrY	13839311	.	T	C	31.62	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQRankSum=
37364	chrY	13839325	.	G	T	37.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37365	chrY	13839345	.	G	T	328.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37366	chrY	13839346	.	T	G	323.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37367	chrY	13839357	.	G	A	43.51	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQRankSum=
37368	chrY	13839363	.	A	G	41.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
37369	chrY	13839536	.	A	G	9615.91	PASS	AC=64;AF=0.970;AN=66;BaseQRankSum=
37370	chrY	13839555	.	A	G	139.54	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
37371	chrY	13839564	.	A	T	135.67	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37372	chrY	13839566	.	A	G	173.54	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
37373	chrY	13839568	.	A	T	123.12	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37374	chrY	13839569	.	T	A	123.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37375	chrY	13839575	.	C	T	121.47	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
37376	chrY	13839581	.	G	T	116.42	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37377	chrY	13840050	.	G	T	46.88	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQRankSum=
37378	chrY	13840051	.	G	A	167.02	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37379	chrY	13840052	.	G	A	168.25	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37380	chrY	13840063	.	C	T	1294.68	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37381	chrY	13840255	.	G	A	34.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37382	chrY	13840268	.	A	G	34.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37383	chrY	13840277	.	A	T	31.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37384	chrY	13841359	.	C	G	423.17	PASS	AC=2;AF=0.029;AN=68;DP=615;FS=0.0
37385	chrY	13841419	.	C	G	76.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
37386	chrY	13841420	.	A	G	92.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37387	chrY	13841425	.	G	T	83.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37388	chrY	13841426	.	A	G	81.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37389	chrY	13841434	.	T	C	98.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37390	chrY	13841440	.	G	A	90.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37391	chrY	13841448	.	C	T	63.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37392	chrY	13841449	.	G	A	40.35	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=

37393	chrY	13841462	.	A	C	134.76	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
37394	chrY	13841487	.	A	T	80.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37395	chrY	13841488	.	A	T	147.55	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37396	chrY	13841490	.	A	G	116.67	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
37397	chrY	13841492	.	A	C	65.91	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37398	chrY	13841607	.	T	G	88.04	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37399	chrY	13841610	.	G	A	82.70	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37400	chrY	13841614	.	C	G	79.97	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37401	chrY	13841615	.	G	T	4787	PASS	AC=42;AF=0.700;AN=60;BaseQRankSum=
37402	chrY	13842180	.	A	G	1396.95	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37403	chrY	13842194	.	C	A	1228.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37404	chrY	13842195	.	A	G	1229.29	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37405	chrY	13842206	.	G	T	202.62	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37406	chrY	13842391	.	C	A	31.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37407	chrY	13842392	.	A	G	31.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37408	chrY	13842397	.	G	A	34.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37409	chrY	13842405	.	C	A	40.53	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37410	chrY	13842406	.	T	A	40.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37411	chrY	13842803	.	G	C	277.16	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
37412	chrY	13842805	.	A	G	273.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37413	chrY	13842806	.	T	G	272	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37414	chrY	13842808	.	G	A	125.39	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
37415	chrY	13842818	.	C	G	2458.40	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
37416	chrY	13842868	.	G	A	433.44	PASS	AC=2;AF=0.040;AN=50;DP=2100;FS=0.
37417	chrY	13842999	.	A	G	62.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37418	chrY	13843009	.	G	A	113.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37419	chrY	13843010	.	T	G	59.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37420	chrY	13843019	.	A	T	482.76	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37421	chrY	13843023	.	A	T	486.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37422	chrY	13843026	.	C	T	850.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37423	chrY	13843027	.	A	G	505.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37424	chrY	13843032	.	G	C	515.86	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37425	chrY	13843050	.	G	A	799.43	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
37426	chrY	13843056	.	G	T	796.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37427	chrY	13843062	.	A	T	793.23	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37428	chrY	13843069	.	A	C	893.27	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
37429	chrY	13843085	.	G	C	1035.17	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
37430	chrY	13843106	.	T	C	657.52	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37431	chrY	13843112	.	A	G	556.86	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37432	chrY	13843128	.	C	T,A	536.38	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
37433	chrY	13843130	.	C	T	432.92	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37434	chrY	13843131	.	G	A	61.30	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37435	chrY	13843140	.	T	A	188.27	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37436	chrY	13843146	.	G	A	190.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37437	chrY	13843150	.	T	A	370.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37438	chrY	13843155	.	G	T	45.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37439	chrY	13843156	.	G	A	101.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37440	chrY	13843158	.	A	C	247.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37441	chrY	13843166	.	G	T	256.32	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37442	chrY	13843185	.	G	T	215.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37443	chrY	13843202	.	T	A	1178.13	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
37444	chrY	13843206	.	G	A	114.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37445	chrY	13843207	.	A	G	367.28	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
37446	chrY	13843215	.	C	G	1313.84	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
37447	chrY	13843218	.	T	A	94.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37448	chrY	13843220	.	C	G	1484.29	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
37449	chrY	13843228	.	T	A	1109.28	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
37450	chrY	13843234	.	T	C	456.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37451	chrY	13843236	.	A	T	1245.85	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37452	chrY	13843238	.	C	T	370.35	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37453	chrY	13843239	.	A	G	328.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37454	chrY	13843243	.	A	T	1869.50	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
37455	chrY	13843246	.	A	C	36.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37456	chrY	13843250	.	G	A	2013.12	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37457	chrY	13843254	.	T	G	1435.41	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37458	chrY	13843258	.	C	T	1437.52	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
37459	chrY	13843295	.	A	G	340.56	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37460	chrY	13843305	.	T	G	310.03	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
37461	chrY	13843307	.	A	G	190.50	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37462	chrY	13843310	.	A	G	197.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37463	chrY	13843312	.	G	A	322.24	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
37464	chrY	13843313	.	T	A	83.99	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
37465	chrY	13843318	.	T	C	201.71	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37466	chrY	13843320	.	G	C	91.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37467	chrY	13843343	.	A	T	67.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37468	chrY	13843920	.	A	G	71.86	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=

37469	chrY	13843938	.	T	A	3543.96	my_snp_filter	AC=21;AF=0.420;AN=50;BaseQ
37470	chrY	13843994	.	A	G	139.61	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37471	chrY	13843997	.	C	A	1609.78	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
37472	chrY	13844078	.	A	T	1008.69	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
37473	chrY	13844305	.	T	G	2405.48	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
37474	chrY	13844308	.	T	A	2441.80	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
37475	chrY	13844311	.	A	C	2395.39	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
37476	chrY	13844314	.	T	G	2174.50	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
37477	chrY	13844317	.	A	C	2039.66	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
37478	chrY	13844325	.	A	G	1983.60	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
37479	chrY	13844335	.	T	G	2022.18	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
37480	chrY	13844339	.	G	A	1862.21	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
37481	chrY	13844354	.	A	G	1897.19	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
37482	chrY	13844358	.	C	T	2106.93	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
37483	chrY	13844359	.	A	G	2108.23	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
37484	chrY	13844363	.	T	C	2274.72	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
37485	chrY	13844370	.	T	G	2319.92	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37486	chrY	13844378	.	C	T	2381.38	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37487	chrY	13844379	.	T	C	2546.38	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37488	chrY	13844380	.	G	A	2590.35	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37489	chrY	13844385	.	C	G	2829.48	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37490	chrY	13844390	.	A	G	3037.67	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37491	chrY	13844391	.	A	G	877.42	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37492	chrY	13844407	.	C	A	100.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37493	chrY	13844408	.	T	C	1784.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37494	chrY	13844409	.	G	A	1832.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37495	chrY	13844425	.	G	A,C	2574	PASS	AC=9,4;AF=0.129,0.057;AN=70;BaseQ
37496	chrY	13844427	.	A	G	615.46	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37497	chrY	13844429	.	G	A	4878.92	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37498	chrY	13844433	.	G	C	645.35	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37499	chrY	13844444	.	G	A	2013.93	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37500	chrY	13844455	.	C	G	461.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37501	chrY	13844467	.	C	T	407.02	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
37502	chrY	13844485	.	G	A	289.28	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
37503	chrY	13844486	.	G	A	293.32	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
37504	chrY	13844492	.	A	G	233.87	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
37505	chrY	13844493	.	G	T	236.55	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
37506	chrY	13844504	.	G	A	70.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37507	chrY	13844558	.	C	G	122.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37508	chrY	13844578	.	C	T	80.55	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
37509	chrY	13844618	.	C	T	945.52	PASS	AC=5;AF=0.109;AN=46;BaseQRankSum=
37510	chrY	13844628	.	A	T	986.53	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
37511	chrY	13844648	.	G	A	896.03	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
37512	chrY	13844657	.	T	C	878.79	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
37513	chrY	13844659	.	G	T	879.07	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37514	chrY	13844669	.	T	G	925.56	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37515	chrY	13844670	.	A	G	925.56	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37516	chrY	13844675	.	C	G	923.30	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37517	chrY	13844679	.	A	T	1010.23	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37518	chrY	13844690	.	C	T	1007.42	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37519	chrY	13844691	.	G	A	1049.36	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37520	chrY	13844705	.	T	G	957.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37521	chrY	13844713	.	G	T	878.48	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37522	chrY	13844730	.	G	A	837.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37523	chrY	13844740	.	T	G	840.43	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37524	chrY	13844743	.	G	T	841.18	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37525	chrY	13844745	.	A	G	840.52	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37526	chrY	13844748	.	C	T	843.71	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37527	chrY	13844759	.	C	T	882.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37528	chrY	13844786	.	C	A	980.85	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37529	chrY	13844799	.	C	T	874.30	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37530	chrY	13844834	.	G	T	33.59	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37531	chrY	13844839	.	T	A	34.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37532	chrY	13844846	.	C	A	33.97	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37533	chrY	13845039	.	C	G	192.50	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37534	chrY	13845040	.	A	G	191.82	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37535	chrY	13845214	.	C	G	396.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37536	chrY	13845244	.	C	G	271.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37537	chrY	13845257	.	T	G	255.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37538	chrY	13845260	.	T	C	1116.48	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37539	chrY	13845274	.	T	C	1697.70	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
37540	chrY	13845284	.	A	G	1883.48	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
37541	chrY	13845290	.	G	A	859.66	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37542	chrY	13845292	.	A	T	859.33	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37543	chrY	13845297	.	T	A	2100.25	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
37544	chrY	13845300	.	T	G,C	1460.24	PASS	AC=2,3;AF=0.032,0.048;AN=62;BaseQ

37545	chrY	13845343	.	G	A	1731.66	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
37546	chrY	13845351	.	T	A	37.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37547	chrY	13845352	.	T	A	36.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37548	chrY	13845354	.	G	A	143.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
37549	chrY	13845358	.	G	A	47.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37550	chrY	13845362	.	T	A	51.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37551	chrY	13845364	.	G	C	50.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37552	chrY	13845367	.	C	T	544.77	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
37553	chrY	13845368	.	G	T	49.84	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37554	chrY	13845388	.	T	G	72.07	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37555	chrY	13845389	.	A	G	71.74	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37556	chrY	13845398	.	C	A	116.35	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37557	chrY	13845405	.	A	C	36.95	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37558	chrY	13845411	.	A	T	78.57	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37559	chrY	13845414	.	G	C	53.57	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
37560	chrY	13845419	.	T	C	44.37	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37561	chrY	13845424	.	A	G	59.69	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
37562	chrY	13845432	.	G	T	92.39	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
37563	chrY	13845434	.	A	G	87.75	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
37564	chrY	13845585	.	C	G	87.90	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37565	chrY	13845586	.	A	G	99.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37566	chrY	13845595	.	A	G	90.58	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37567	chrY	13846108	.	A	G	214.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37568	chrY	13846253	.	T	C	366.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37569	chrY	13846296	.	A	G	77.62	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37570	chrY	13846298	.	T	C	87.07	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37571	chrY	13846299	.	A	G	153.22	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
37572	chrY	13846313	.	C	T	85.52	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37573	chrY	13846314	.	A	T	137.49	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37574	chrY	13846435	.	G	C	355.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37575	chrY	13846441	.	G	A	505.07	PASS	AC=4;AF=0.250;AN=16;BaseQRankSum=
37576	chrY	13846448	.	T	C	378.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37577	chrY	13846463	.	T	A	353.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37578	chrY	13846473	.	T	C	340.32	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37579	chrY	13846487	.	A	G	92.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
37580	chrY	13846512	.	A	T	134.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37581	chrY	13846517	.	C	A	196.44	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37582	chrY	13846520	.	G	A	143.33	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37583	chrY	13846523	.	T	C	346.73	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37584	chrY	13846524	.	G	C	111.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37585	chrY	13846527	.	T	A	493.70	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
37586	chrY	13846529	.	C	G	604.87	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
37587	chrY	13846530	.	C	G	516.73	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
37588	chrY	13846532	.	A	C	488.64	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
37589	chrY	13846543	.	C	T	166.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37590	chrY	13846558	.	T	C	32.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37591	chrY	13846560	.	G	A	87.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37592	chrY	13846562	.	T	C	157.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37593	chrY	13846569	.	G	A	68.51	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
37594	chrY	13846570	.	C	T	325.94	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
37595	chrY	13846572	.	G	A	235.06	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
37596	chrY	13846579	.	T	C	180.99	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37597	chrY	13846583	.	T	A	224.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37598	chrY	13846594	.	T	C	148.20	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
37599	chrY	13846595	.	G	A	80.23	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37600	chrY	13846604	.	G	C	109.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37601	chrY	13846609	.	C	A	98.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37602	chrY	13846610	.	A	C	98.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37603	chrY	13846623	.	C	G	202.86	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
37604	chrY	13846625	.	A	G	91.11	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
37605	chrY	13846626	.	T	A	79.34	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
37606	chrY	13846633	.	T	G	85.89	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37607	chrY	13846634	.	T	G	102.61	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
37608	chrY	13846653	.	G	T	59.58	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37609	chrY	13846785	.	G	A	1310.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37610	chrY	13846883	.	C	T	446.28	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
37611	chrY	13846911	.	T	A	2940.53	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
37612	chrY	13846915	.	T	G	2925.29	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
37613	chrY	13846916	.	A	T	1877.65	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
37614	chrY	13846920	.	G	A	1943.86	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
37615	chrY	13846935	.	G	T	420.68	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37616	chrY	13846936	.	A	C	374.57	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37617	chrY	13846940	.	T	G	2898.23	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37618	chrY	13846942	.	T	A	2862.82	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37619	chrY	13846947	.	G	A	2695.51	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37620	chrY	13846950	.	T	C	158.61	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ

37621	chrY	13846966	.	A	T	267.88	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37622	chrY	13846979	.	G	T	472.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37623	chrY	13846999	.	G	C	378.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37624	chrY	13847003	.	T	C	425	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37625	chrY	13847010	.	C	A,G	547.69	PASS	AC=4,3;AF=0.059,0.044;AN=68;BaseQ
37626	chrY	13847014	.	A	C	106.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
37627	chrY	13847018	.	C	T	398.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37628	chrY	13847019	.	A	G	360.96	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37629	chrY	13847026	.	A	T	107.23	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37630	chrY	13847038	.	C	T	201.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37631	chrY	13847041	.	G	A	348.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37632	chrY	13847044	.	A	G	239.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37633	chrY	13847049	.	G	T	85.57	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37634	chrY	13847058	.	T	A	226.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37635	chrY	13847063	.	T	C	203.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37636	chrY	13847075	.	C	G	47.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37637	chrY	13847231	.	C	T	290.21	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
37638	chrY	13847238	.	G	A	278.94	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
37639	chrY	13847354	.	G	C	375.36	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
37640	chrY	13847399	.	A	G	32.56	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
37641	chrY	13847409	.	G	T	62.47	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37642	chrY	13847414	.	A	G	63.06	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37643	chrY	13847429	.	C	G	115.47	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
37644	chrY	13847431	.	G	A	156.74	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
37645	chrY	13847478	.	A	G	1898.35	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37646	chrY	13847485	.	A	G	1847.57	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37647	chrY	13847490	.	C	A	1711.46	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
37648	chrY	13847496	.	T	C	1628.54	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37649	chrY	13847499	.	T	A	1619.18	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
37650	chrY	13847503	.	G	T	1522.27	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37651	chrY	13847523	.	G	T	1014.15	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
37652	chrY	13847524	.	T	C	997.74	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
37653	chrY	13847529	.	G	A	842.12	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
37654	chrY	13847549	.	G	T	647.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37655	chrY	13847559	.	T	G	366.07	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
37656	chrY	13847727	.	C	T	396.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37657	chrY	13847742	.	C	T	294.80	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37658	chrY	13847748	.	T	G	273.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37659	chrY	13847750	.	A	G	270.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37660	chrY	13847751	.	G	T	272.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37661	chrY	13847757	.	T	C	221.22	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37662	chrY	13847876	.	G	T	1131.23	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
37663	chrY	13847898	.	A	G	938.55	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
37664	chrY	13847911	.	A	T	790.20	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37665	chrY	13847923	.	T	G	577.48	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37666	chrY	13847940	.	A	G	410.91	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37667	chrY	13847948	.	G	A	367.57	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37668	chrY	13847949	.	A	T	367.62	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37669	chrY	13847966	.	A	T	245.37	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37670	chrY	13847971	.	C	T	228.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37671	chrY	13847997	.	C	T	120.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37672	chrY	13848001	.	A	T	203.88	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
37673	chrY	13848007	.	A	G	180.23	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
37674	chrY	13848012	.	T	C	166.47	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37675	chrY	13848047	.	C	A	76.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37676	chrY	13848058	.	T	C	74.35	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37677	chrY	13848059	.	C	A	78.64	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37678	chrY	13848073	.	C	T	160.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37679	chrY	13848074	.	A	G	162.63	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37680	chrY	13848083	.	G	A	202.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37681	chrY	13848088	.	G	A	244.41	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37682	chrY	13848118	.	A	G	324.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37683	chrY	13848119	.	G	C	323.77	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37684	chrY	13848126	.	A	G	278.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37685	chrY	13848128	.	C	T	367.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37686	chrY	13848129	.	A	G	410.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37687	chrY	13848137	.	A	T	405.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37688	chrY	13848139	.	C	G	450.34	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37689	chrY	13848147	.	T	A	451.88	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37690	chrY	13848159	.	A	G	541.61	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37691	chrY	13848172	.	C	T	672.22	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37692	chrY	13848175	.	A	G	628.77	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37693	chrY	13848183	.	A	G	650.74	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37694	chrY	13848192	.	A	T	641.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37695	chrY	13848194	.	C	G	641.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37696	chrY	13848201	.	A	G	622.53	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=

37697	chrY	13848229	.	T	G	2634.98	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37698	chrY	13848242	.	T	G	2559.50	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
37699	chrY	13848248	.	A	G	2457.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37700	chrY	13848249	.	C	G	2457.87	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37701	chrY	13848270	.	A	G	602.71	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37702	chrY	13848273	.	C	T	1315.60	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37703	chrY	13848278	.	T	A,G	1394.65	PASS	AC=2,3;AF=0.029,0.044;AN=68;BaseQ
37704	chrY	13848283	.	T	G	180.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37705	chrY	13848304	.	A	G	64.90	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
37706	chrY	13848567	.	C	T	354.23	PASS	AC=2;AF=0.029;AN=70;DP=554;FS=0.0
37707	chrY	13849174	.	G	A	53.39	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37708	chrY	13849325	.	C	T	1125.88	PASS	AC=6;AF=0.097;AN=62;DP=612;FS=0.0
37709	chrY	13849696	.	T	A	336.17	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37710	chrY	13849697	.	T	G	334.37	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
37711	chrY	13849709	.	A	T	327.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37712	chrY	13849710	.	A	T	353.06	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37713	chrY	13849724	.	T	A	128.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37714	chrY	13849758	.	G	A	117.08	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37715	chrY	13849766	.	C	A	168.51	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37716	chrY	13850083	.	A	T	873.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37717	chrY	13850201	.	G	A	1648.62	PASS	AC=12;AF=0.222;AN=54;DP=374;FS=0.0
37718	chrY	13850524	.	A	T	43.97	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
37719	chrY	13850525	.	G	A	39.92	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
37720	chrY	13850530	.	A	T	37.48	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
37721	chrY	13850531	.	A	G	40.34	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
37722	chrY	13850533	.	A	G	36.01	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
37723	chrY	13850537	.	C	A	39.56	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37724	chrY	13850549	.	T	A	32.42	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37725	chrY	13850550	.	G	T	35.78	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
37726	chrY	13851002	.	T	C	61.34	PASS	AC=2;AF=0.045;AN=44;DP=3813;FS=0.0
37727	chrY	13851006	.	T	A	64.24	PASS	AC=2;AF=0.063;AN=32;DP=3836;FS=0.0
37728	chrY	13851025	.	T	G	45.94	PASS	AC=2;AF=0.029;AN=70;DP=4280;FS=0.0
37729	chrY	13851027	.	G	A	51.88	PASS	AC=2;AF=0.033;AN=60;DP=4399;FS=0.0
37730	chrY	13851030	.	T	C	55.68	PASS	AC=2;AF=0.029;AN=70;DP=4396;FS=0.0
37731	chrY	13851042	.	T	A	463.09	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37732	chrY	13851048	.	G	A	2223.12	PASS	AC=16;AF=0.400;AN=40;BaseQRankSum=
37733	chrY	13851058	.	A	G	46.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37734	chrY	13851061	.	T	A	34.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37735	chrY	13851075	.	T	A	54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37736	chrY	13851076	.	G	C	54.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37737	chrY	13851081	.	C	T	56	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
37738	chrY	13851082	.	A	G	156.46	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
37739	chrY	13851095	.	A	T	179.67	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
37740	chrY	13851116	.	C	G	384.03	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
37741	chrY	13851119	.	G	A	372.43	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
37742	chrY	13851126	.	G	A	48.99	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
37743	chrY	13851131	.	A	G	53.19	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
37744	chrY	13851136	.	G	A	149.53	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
37745	chrY	13851137	.	A	G	376.20	PASS	AC=4;AF=0.118;AN=34;BaseQRankSum=
37746	chrY	13851141	.	T	G	372.03	PASS	AC=4;AF=0.111;AN=36;BaseQRankSum=
37747	chrY	13851155	.	C	A	133.82	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
37748	chrY	13851156	.	A	G	268.99	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
37749	chrY	13851160	.	A	T	127.41	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
37750	chrY	13851186	.	G	A	311.67	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
37751	chrY	13851241	.	C	T	338.65	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
37752	chrY	13851297	.	G	C	65.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37753	chrY	13851301	.	A	G	82.16	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
37754	chrY	13851310	.	T	A	38.08	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37755	chrY	13851316	.	G	C	48.04	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37756	chrY	13851318	.	T	A	48.10	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37757	chrY	13851322	.	G	A	40.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37758	chrY	13851332	.	T	G	46.01	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
37759	chrY	13851389	.	C	A	211.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37760	chrY	13851394	.	A	G	253.35	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
37761	chrY	13851507	.	C	G	836.76	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
37762	chrY	13851509	.	A	C	58.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37763	chrY	13851522	.	G	A	774.92	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
37764	chrY	13851524	.	T	A	773.83	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
37765	chrY	13851526	.	T	A	777.65	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
37766	chrY	13851535	.	T	C	569.91	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
37767	chrY	13851541	.	G	C	480.80	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
37768	chrY	13851542	.	G	T	479.16	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
37769	chrY	13851555	.	G	T	711.04	PASS	AC=7;AF=0.167;AN=42;BaseQRankSum=
37770	chrY	13851562	.	A	G	577.79	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
37771	chrY	13851571	.	G	T	281.18	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37772	chrY	13851584	.	T	A	359.11	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=

37773	chrY	13851590	.	T	C	202.88	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37774	chrY	13851591	.	A	C	437.52	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
37775	chrY	13851594	.	C	A	903.77	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
37776	chrY	13851605	.	T	A,*	465.07	PASS	AC=1,2;AF=0.017,0.034;AN=58;BaseQ
37777	chrY	13851606	.	T	A,*	547.18	PASS	AC=1,1;AF=0.083,0.083;AN=12;BaseQ
37778	chrY	13851610	.	T	A,*	685.10	PASS	AC=3,1;AF=0.136,0.045;AN=22;BaseQ
37779	chrY	13851612	.	G	T,*	463.27	PASS	AC=1,2;AF=0.015,0.030;AN=66;BaseQ
37780	chrY	13851616	.	C	G	1049.07	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
37781	chrY	13851634	.	C	A	184.89	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=
37782	chrY	13851642	.	T	A	195.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37783	chrY	13851646	.	A	G	2148.26	PASS	AC=5;AF=0.417;AN=12;BaseQRankSum=
37784	chrY	13851651	.	T	C	367.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37785	chrY	13851655	.	A	T	2023.94	PASS	AC=4;AF=0.400;AN=10;BaseQRankSum=
37786	chrY	13851668	.	A	T	1751.05	PASS	AC=2;AF=0.250;AN=8;BaseQRankSum=
37787	chrY	13851678	.	A	G	105.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37788	chrY	13851679	.	C	T	105.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37789	chrY	13851687	.	C	A	105.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37790	chrY	13851695	.	A	T	121.19	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
37791	chrY	13851697	.	A	G	130.97	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
37792	chrY	13851711	.	T	C	183.27	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
37793	chrY	13851712	.	G	A	86.28	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
37794	chrY	13851770	.	T	C	283.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37795	chrY	13851801	.	A	C	340.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
37796	chrY	13851814	.	C	T	238.71	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37797	chrY	13851816	.	G	C	246.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37798	chrY	13851832	.	G	A	265.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37799	chrY	13851835	.	A	T	263.52	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37800	chrY	13851846	.	A	C	264.39	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37801	chrY	13851852	.	G	T	260.58	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37802	chrY	13851871	.	T	G	295.80	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37803	chrY	13851977	.	A	G,*	2590.18	PASS	AC=6,26;AF=0.100,0.433;AN=60;DP=8
37804	chrY	13852075	.	T	A	99.97	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
37805	chrY	13852076	.	G	C	103.44	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
37806	chrY	13852077	.	G	A	30.29	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
37807	chrY	13852232	.	A	G	131.16	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37808	chrY	13852235	.	T	A	46.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
37809	chrY	13852237	.	G	T	30.59	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
37810	chrY	13852238	.	A	G	1049.15	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37811	chrY	13852239	.	A	G	1047.08	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37812	chrY	13852245	.	A	T	1175.93	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37813	chrY	13852246	.	G	A	65.61	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37814	chrY	13852255	.	T	C	1089.55	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37815	chrY	13852259	.	T	C	100.56	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
37816	chrY	13852270	.	T	C	1195.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
37817	chrY	13852271	.	G	T	1035.80	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37818	chrY	13852280	.	A	T	3561.43	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
37819	chrY	13852286	.	G	A	30.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37820	chrY	13852289	.	T	C	857.66	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37821	chrY	13852297	.	G	C	2580.70	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
37822	chrY	13852299	.	G	A	2649.04	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
37823	chrY	13852302	.	G	A	2493.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
37824	chrY	13852304	.	A	T	2662.53	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
37825	chrY	13852322	.	A	G	2509.09	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
37826	chrY	13852347	.	T	G	2067.20	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
37827	chrY	13852358	.	G	A	1649.76	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
37828	chrY	13852361	.	T	G	1777.33	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
37829	chrY	13852372	.	A	G	1578.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37830	chrY	13852381	.	C	T	1453.38	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37831	chrY	13852396	.	C	T	1297.14	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37832	chrY	13852397	.	C	G	1253.21	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37833	chrY	13852399	.	G	A	1017.26	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37834	chrY	13852401	.	A	G	1009.33	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37835	chrY	13852404	.	A	G	1008.70	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37836	chrY	13852405	.	G	T	1008.85	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
37837	chrY	13852435	.	T	C	472.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37838	chrY	13852438	.	T	A	430.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37839	chrY	13852447	.	A	G	278.08	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37840	chrY	13852452	.	T	G	160.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
37841	chrY	13852465	.	C	T	96.64	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
37842	chrY	13852471	.	C	G	41.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37843	chrY	13852646	.	G	C	140.66	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
37844	chrY	13852650	.	T	C	169.44	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37845	chrY	13852654	.	G	T	161.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37846	chrY	13852690	.	T	C	87.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37847	chrY	13852697	.	T	G	99.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37848	chrY	13852699	.	T	A	57.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

37849	chrY	13852706	.	C	G	505.21	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37850	chrY	13852709	.	A	G	371.10	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
37851	chrY	13852855	.	G	A	771.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37852	chrY	13852971	.	A	T	551.95	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37853	chrY	13852983	.	C	A	558.27	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37854	chrY	13853265	.	A	C	301.27	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
37855	chrY	13853271	.	A	T	304.14	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37856	chrY	13853272	.	G	T	258.26	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37857	chrY	13853280	.	C	T	244.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37858	chrY	13853291	.	T	C	250.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37859	chrY	13853299	.	A	C	300.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37860	chrY	13853305	.	A	G	299.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37861	chrY	13853312	.	G	C	881.54	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
37862	chrY	13853330	.	G	A	30.62	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
37863	chrY	13853337	.	G	C	1240.02	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
37864	chrY	13853342	.	C	T	932.53	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
37865	chrY	13853346	.	G	T	30.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37866	chrY	13853387	.	G	A	421.67	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37867	chrY	13853388	.	G	C,T	309.48	PASS	AC=1,3;AF=0.015,0.044;AN=68;BaseQ
37868	chrY	13853392	.	G	C,A	181.55	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
37869	chrY	13853393	.	G	A,T	173.17	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
37870	chrY	13853401	.	T	C	93.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
37871	chrY	13853410	.	T	G	933.49	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
37872	chrY	13853411	.	C	T	920.70	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
37873	chrY	13853417	.	A	C	963.90	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37874	chrY	13853418	.	G	A	921.09	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
37875	chrY	13853427	.	G	A	439.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37876	chrY	13853447	.	T	C	1527.54	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
37877	chrY	13853461	.	A	T	89.47	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
37878	chrY	13853481	.	A	T	137.68	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
37879	chrY	13853494	.	G	A	138.28	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37880	chrY	13853506	.	T	G	101.67	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
37881	chrY	13853515	.	G	A	39.24	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
37882	chrY	13853542	.	A	G	964.02	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
37883	chrY	13853544	.	A	T	929.57	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
37884	chrY	13853555	.	T	C	878.10	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
37885	chrY	13853573	.	A	G	917.38	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
37886	chrY	13853746	.	T	A	105.68	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
37887	chrY	13853757	.	A	G	576.01	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
37888	chrY	13853758	.	G	T	50.32	PASS	AC=2;AF=0.038;AN=52;DP=1250;FS=0.
37889	chrY	13853762	.	C	A	401.95	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37890	chrY	13853770	.	A	T	34.40	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37891	chrY	13853775	.	A	C	377.54	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
37892	chrY	13853777	.	G	T	52.15	PASS	AC=2;AF=0.037;AN=54;DP=1007;FS=0.
37893	chrY	13853780	.	A	G	69.42	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
37894	chrY	13853781	.	C	G	58.20	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37895	chrY	13853787	.	C	G	166.45	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
37896	chrY	13853792	.	T	C	113.05	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
37897	chrY	13853798	.	G	C	50.60	PASS	AC=2;AF=0.036;AN=56;DP=857;FS=0.0
37898	chrY	13853919	.	T	A	6638.44	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
37899	chrY	13853936	.	C	T	7383.45	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
37900	chrY	13853952	.	C	T	7748.38	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
37901	chrY	13853955	.	C	A	7838.44	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37902	chrY	13853960	.	T	A	7907.61	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
37903	chrY	13853976	.	C	T	6963.12	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
37904	chrY	13853978	.	G	A	6814.19	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
37905	chrY	13853982	.	T	C	6737.50	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
37906	chrY	13853986	.	A	T	6674.90	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
37907	chrY	13853987	.	G	C	6652.18	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
37908	chrY	13854011	.	T	A	246.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37909	chrY	13854012	.	C	T	6283.47	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
37910	chrY	13854041	.	A	T	5386.93	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
37911	chrY	13854051	.	C	T	5535.66	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
37912	chrY	13854067	.	G	A	5291.99	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37913	chrY	13854073	.	T	G	5132.80	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum=
37914	chrY	13854086	.	C	T	4735.72	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
37915	chrY	13854096	.	A	T	4855.38	my_snp_filter	AC=14;AF=0.206;AN=68;Base
37916	chrY	13854097	.	C	G	4849.38	my_snp_filter	AC=14;AF=0.206;AN=68;Base
37917	chrY	13854098	.	A	C	4810.31	my_snp_filter	AC=14;AF=0.206;AN=68;Base
37918	chrY	13854113	.	A	G	4543.98	my_snp_filter	AC=13;AF=0.191;AN=68;Base
37919	chrY	13854122	.	G	A	4305.96	my_snp_filter	AC=11;AF=0.162;AN=68;Base
37920	chrY	13854143	.	C	G	483.41	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
37921	chrY	13854160	.	T	A	253.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37922	chrY	13854161	.	T	C	253.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37923	chrY	13854168	.	A	G	219.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37924	chrY	13854169	.	G	A	178.31	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=

37925	chrY	13854170	.	A	T	443.09	PASS	AC=2;AF=0.029;AN=70;DP=579;FS=0.0
37926	chrY	13854173	.	T	G	184.37	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
37927	chrY	13854200	.	G	A	105.73	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37928	chrY	13854203	.	T	G	81.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37929	chrY	13854207	.	C	A	68.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37930	chrY	13854208	.	A	G	66.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37931	chrY	13854227	.	G	A	47.35	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37932	chrY	13854287	.	A	C	8648.84	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
37933	chrY	13854289	.	A	T	10161.27	PASS	AC=2;AF=0.029;AN=68;BaseQ
37934	chrY	13854310	.	T	A	13450.22	my_snp_filter	AC=2;AF=0.053;AN=
37935	chrY	13854317	.	C	T	13890.87	my_snp_filter	AC=2;AF=0.053;AN=
37936	chrY	13854318	.	C	G	8601.63	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
37937	chrY	13854326	.	T	C	13705.91	my_snp_filter	AC=2;AF=0.043;AN=
37938	chrY	13854332	.	T	C	4347.11	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
37939	chrY	13854338	.	G	T	14049.04	my_snp_filter	AC=2;AF=0.043;AN=
37940	chrY	13854342	.	G	T	248.36	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37941	chrY	13854347	.	C	A	205.99	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37942	chrY	13854377	.	C	A	2910.61	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37943	chrY	13854383	.	T	G	3480.23	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
37944	chrY	13854389	.	A	G	441.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37945	chrY	13854393	.	A	G	16553.89	my_snp_filter	AC=9;AF=0.136;AN=
37946	chrY	13854607	.	T	G	32.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
37947	chrY	13854621	.	C	G	30.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37948	chrY	13854633	.	A	G	239.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37949	chrY	13855117	.	A	C,G	530.48	my_snp_filter	AC=2,7;AF=0.029,0.103;AN=
37950	chrY	13855120	.	A	T	147.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37951	chrY	13855124	.	A	T	143.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37952	chrY	13855131	.	C	T	109.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37953	chrY	13855145	.	A	T	40	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
37954	chrY	13855157	.	A	G	44.34	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37955	chrY	13855161	.	G	T	40.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37956	chrY	13855167	.	G	A	42.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37957	chrY	13855366	.	A	G	94.10	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
37958	chrY	13855376	.	A	G	30.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37959	chrY	13855539	.	T	C	85.82	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
37960	chrY	13855844	.	G	C	134.40	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37961	chrY	13855853	.	C	A	144.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37962	chrY	13855857	.	G	A	145.37	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
37963	chrY	13856508	.	T	G	64.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
37964	chrY	13856557	.	G	A	345.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37965	chrY	13856562	.	C	T	32.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
37966	chrY	13856563	.	A	G,C	1634.14	PASS	AC=2,10;AF=0.029,0.147;AN=68;Base
37967	chrY	13856566	.	C	T,A	1909.91	PASS	AC=4,10;AF=0.065,0.161;AN=62;Base
37968	chrY	13856570	.	A	G	1452.71	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
37969	chrY	13856573	.	C	T	215.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
37970	chrY	13856576	.	T	C	32.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
37971	chrY	13856580	.	A	G	93.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37972	chrY	13856582	.	G	C	1451.24	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37973	chrY	13856583	.	G	A	1457.43	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
37974	chrY	13856589	.	A	T	1288.81	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
37975	chrY	13856591	.	T	G	46.02	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
37976	chrY	13856592	.	T	C	61.14	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
37977	chrY	13856598	.	C	G	103.56	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
37978	chrY	13856667	.	G	C	8049.38	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum=
37979	chrY	13856697	.	G	T	42.21	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
37980	chrY	13857036	.	A	G	33.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
37981	chrY	13857250	.	T	A	75.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
37982	chrY	13857331	.	A	G	16886.90	PASS	AC=70;AF=1.00;AN=70;BaseQ
37983	chrY	13857506	.	G	C	218.30	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
37984	chrY	13857511	.	G	A	229.97	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
37985	chrY	13857513	.	C	A	256.65	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
37986	chrY	13857514	.	C	T	256.72	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
37987	chrY	13857521	.	G	C	219.35	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
37988	chrY	13857524	.	T	C	207.87	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
37989	chrY	13857537	.	A	C	206.12	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
37990	chrY	13857545	.	G	A	133.24	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
37991	chrY	13857556	.	G	C	114.53	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
37992	chrY	13857685	.	C	T	8268.91	PASS	AC=46;AF=0.676;AN=68;DP=1011;FS=0
37993	chrY	13857696	.	C	G	2698.30	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
37994	chrY	13857710	.	A	G	5333.37	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
37995	chrY	13857715	.	C	T	5731.18	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
37996	chrY	13857718	.	A	G	32.15	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
37997	chrY	13857731	.	G	A	5815.11	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
37998	chrY	13857745	.	T	G	3835.74	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
37999	chrY	13857751	.	A	G	3941.74	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
38000	chrY	13857754	.	T	A	4050.64	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

38001	chrY	13857756	.	A	G	3984.25	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
38002	chrY	13857760	.	G	A	149.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38003	chrY	13857766	.	A	G	208.06	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
38004	chrY	13857769	.	T	A,*	1768.77	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
38005	chrY	13857770	.	G	T,*	1810.01	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQ
38006	chrY	13857775	.	G	C	6203.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38007	chrY	13857780	.	T	C	570.80	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
38008	chrY	13857791	.	G	A	7530.72	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38009	chrY	13857794	.	T	A	7555.84	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
38010	chrY	13857795	.	G	C	8526.25	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
38011	chrY	13857799	.	T	A	8449.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38012	chrY	13857808	.	C	A	36.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38013	chrY	13857809	.	C	T	465.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38014	chrY	13857814	.	T	C	990.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38015	chrY	13857815	.	G	T	530.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38016	chrY	13857834	.	T	C	3795.41	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
38017	chrY	13857837	.	G	A	3604.69	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
38018	chrY	13857840	.	C	T	3650.67	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum=
38019	chrY	13857841	.	G	C	3725.31	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
38020	chrY	13857847	.	A	T	3163.82	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
38021	chrY	13857849	.	T	C	8076.20	PASS	AC=20;AF=0.357;AN=56;BaseQRankSum=
38022	chrY	13857852	.	A	C	3378.20	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
38023	chrY	13857854	.	T	C	3475.20	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
38024	chrY	13857855	.	T	G,A	8607.51	PASS	AC=19,8;AF=0.306,0.129;AN=62;Base
38025	chrY	13857859	.	T	C	1767.27	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
38026	chrY	13857868	.	A	G,T	10601.93	PASS	AC=6,22;AF=0.097,0.355;AN=
38027	chrY	13857879	.	T	G	1699.07	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
38028	chrY	13857885	.	C	T	5347.33	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
38029	chrY	13857886	.	G	T	1607.22	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
38030	chrY	13857887	.	A	C	5329.48	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
38031	chrY	13857889	.	T	A	1561.26	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38032	chrY	13857904	.	T	A	4183.90	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
38033	chrY	13857912	.	A	T	141.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38034	chrY	13857915	.	G	T	1201.03	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
38035	chrY	13857916	.	G	T	1859.91	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
38036	chrY	13857921	.	C	T	999.13	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
38037	chrY	13857922	.	A	C	5085.87	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
38038	chrY	13857926	.	G	A	1522.58	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
38039	chrY	13857928	.	A	G	206.80	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38040	chrY	13857929	.	T	G	1291.42	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
38041	chrY	13857933	.	A	G	1205.01	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
38042	chrY	13857934	.	T	A,G	3871.47	PASS	AC=9,3;AF=0.136,0.045;AN=66;BaseQ
38043	chrY	13857935	.	A	G	794.16	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
38044	chrY	13857939	.	T	C	267.34	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38045	chrY	13857940	.	G	C	269.24	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
38046	chrY	13857941	.	G	A	837.32	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
38047	chrY	13857944	.	T	C	746.77	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38048	chrY	13857946	.	C	T	3310.19	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38049	chrY	13857947	.	A	T	459.12	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
38050	chrY	13857948	.	A	T	291.90	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38051	chrY	13857949	.	T	C	73.09	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
38052	chrY	13857953	.	A	G	77.10	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
38053	chrY	13857959	.	T	C	2076.78	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
38054	chrY	13857960	.	G	C,T	1864.41	PASS	AC=2,4;AF=0.036,0.071;AN=56;BaseQ
38055	chrY	13857962	.	A	C	63.31	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38056	chrY	13857965	.	G	T	165.63	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38057	chrY	13857969	.	C	A,T	1092.39	PASS	AC=2,6;AF=0.071,0.214;AN=28;BaseQ
38058	chrY	13857970	.	C	A	164.83	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
38059	chrY	13857973	.	G	A	311.95	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
38060	chrY	13857974	.	T	A	153.17	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
38061	chrY	13857979	.	A	T	1495.86	PASS	AC=9;AF=0.237;AN=38;BaseQRankSum=
38062	chrY	13857985	.	T	C	407.12	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
38063	chrY	13857986	.	G	T	187.28	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
38064	chrY	13857994	.	T	G	290.41	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
38065	chrY	13857996	.	A	G,C	609.45	PASS	AC=3,3;AF=0.068,0.068;AN=44;BaseQ
38066	chrY	13857999	.	T	A	69.32	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
38067	chrY	13858000	.	C	T	65.07	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
38068	chrY	13858001	.	A	G	522.24	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
38069	chrY	13858009	.	C	T	474.57	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
38070	chrY	13858011	.	G	C	38.04	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38071	chrY	13858014	.	T	A	38.24	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38072	chrY	13858016	.	G	A	46.17	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
38073	chrY	13858028	.	T	C	308.18	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
38074	chrY	13858029	.	T	C	151.73	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
38075	chrY	13858031	.	G	C	80.65	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38076	chrY	13858043	.	A	C	67.29	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ

38077	chrY	13858046	.	G	A	38.76	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
38078	chrY	13858053	.	T	A	215.89	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
38079	chrY	13858064	.	T	C	319.56	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
38080	chrY	13858078	.	T	A	299.33	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
38081	chrY	13858079	.	T	C	294.12	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
38082	chrY	13858106	.	G	T	11913.91	PASS	AC=65;AF=0.985;AN=66;BaseQ
38083	chrY	13858150	.	C	G	77.48	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38084	chrY	13858159	.	C	T	53.45	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
38085	chrY	13858215	.	T	A	308.78	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38086	chrY	13858234	.	A	G	475.39	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38087	chrY	13858249	.	C	G	15709.96	PASS	AC=66;AF=1.00;AN=66;DP=36
38088	chrY	13858251	.	G	A	15677.96	PASS	AC=66;AF=1.00;AN=66;DP=36
38089	chrY	13858258	.	G	T	252.03	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38090	chrY	13858269	.	A	G	290.53	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38091	chrY	13858272	.	A	C	247.91	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38092	chrY	13858277	.	T	A	90	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38093	chrY	13858287	.	T	C	48.12	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
38094	chrY	13858288	.	T	A	47.22	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
38095	chrY	13858295	.	A	G	211.63	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
38096	chrY	13858402	.	T	G	1866.37	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
38097	chrY	13858414	.	G	A	2457.50	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
38098	chrY	13858417	.	T	A	2547.30	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
38099	chrY	13858435	.	A	G	3013.51	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
38100	chrY	13858675	.	G	A	246.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38101	chrY	13858689	.	T	C,*	1260.09	PASS	AC=3,2;AF=0.045,0.030;AN=66;BaseQ
38102	chrY	13858693	.	T	A	363.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38103	chrY	13858695	.	G	T	528.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38104	chrY	13858700	.	C	G	194.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38105	chrY	13858704	.	A	C	125.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38106	chrY	13858706	.	A	T,G	1320.95	PASS	AC=4,2;AF=0.065,0.032;AN=62;BaseQ
38107	chrY	13858708	.	T	G	146.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38108	chrY	13858710	.	G	A	47.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38109	chrY	13858715	.	G	A	229.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38110	chrY	13858719	.	C	G	379.27	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38111	chrY	13858729	.	C	T	504.93	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
38112	chrY	13858730	.	G	A	217.62	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
38113	chrY	13858733	.	T	C	491.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38114	chrY	13858734	.	G	A	111.30	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38115	chrY	13858748	.	T	G	213.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38116	chrY	13858749	.	G	A	356.18	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38117	chrY	13858768	.	A	T	418.35	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
38118	chrY	13858769	.	C	T	414.63	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
38119	chrY	13858773	.	T	C	370.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38120	chrY	13858782	.	T	A	297.25	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38121	chrY	13858803	.	T	A	209.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38122	chrY	13858806	.	A	G	170.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38123	chrY	13858829	.	C	T	1053.17	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38124	chrY	13858830	.	A	C	118.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38125	chrY	13858834	.	G	A	1052.61	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38126	chrY	13858846	.	T	C	702.92	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38127	chrY	13858850	.	T	C	685.12	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
38128	chrY	13858858	.	G	T	626.47	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38129	chrY	13858875	.	G	C	638.87	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38130	chrY	13858990	.	T	G	1891.50	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
38131	chrY	13858995	.	C	G	1910.99	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
38132	chrY	13859000	.	A	G	1937.46	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
38133	chrY	13859005	.	A	G	2086.15	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
38134	chrY	13859014	.	C	T	2152.94	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
38135	chrY	13859039	.	C	G	1630.24	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38136	chrY	13859040	.	T	G	1597.15	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38137	chrY	13859050	.	T	G	1438.12	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
38138	chrY	13859627	.	T	C	139.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38139	chrY	13859630	.	G	A	149.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38140	chrY	13859632	.	G	A	163.41	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
38141	chrY	13859636	.	C	A	165.34	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
38142	chrY	13859637	.	T	A	165.18	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
38143	chrY	13859644	.	C	T	163.20	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38144	chrY	13859649	.	G	T	155.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38145	chrY	13859650	.	G	T	155.44	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38146	chrY	13859657	.	A	G	150.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38147	chrY	13859684	.	T	A	124.13	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
38148	chrY	13859928	.	T	C	70.87	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
38149	chrY	13859949	.	G	A	55.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38150	chrY	13859954	.	C	G	59.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38151	chrY	13859958	.	A	T	58.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38152	chrY	13859959	.	G	C	114.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

38153	chrY	13859963	.	T	A	120.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38154	chrY	13859965	.	G	A	30.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38155	chrY	13859977	.	G	T,*	3398.03	my_snp_filter	AC=7,1;AF=0.500,0.071;AN=
38156	chrY	13859978	.	T	C,*	3398.03	my_snp_filter	AC=7,1;AF=0.500,0.071;AN=
38157	chrY	13859981	.	A	T,*	3393.93	my_snp_filter	AC=7,1;AF=0.438,0.063;AN=
38158	chrY	13859984	.	A	G,*	3716.68	PASS	AC=10,1;AF=0.625,0.063;AN=16;Base
38159	chrY	13859991	.	T	C,A	3511.07	my_snp_filter	AC=7,1;AF=0.583,0.083;AN=
38160	chrY	13859994	.	T	C,A	3718.22	PASS	AC=7,1;AF=0.583,0.083;AN=12;BaseQ
38161	chrY	13860014	.	G	T	1107.51	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
38162	chrY	13860019	.	A	C	3737.45	PASS	AC=8;AF=0.800;AN=10;BaseQRankSum=
38163	chrY	13860043	.	T	C	677.71	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
38164	chrY	13860048	.	T	A	44.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38165	chrY	13860049	.	C	G	111.54	PASS	AC=2;AF=0.029;AN=70;DP=60618;FS=0
38166	chrY	13860061	.	A	G	42.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38167	chrY	13860062	.	C	A	43.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38168	chrY	13860065	.	G	T	52.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38169	chrY	13860067	.	G	A	586	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
38170	chrY	13860068	.	T	A	145.81	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
38171	chrY	13860069	.	G	A	54.89	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38172	chrY	13860072	.	A	G	40.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38173	chrY	13860077	.	C	T	652.33	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
38174	chrY	13860082	.	A	G	64.60	PASS	AC=2;AF=0.034;AN=58;DP=22746;FS=0
38175	chrY	13860087	.	A	C	494.47	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
38176	chrY	13860088	.	C	T	659.20	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
38177	chrY	13860092	.	A	G	302.29	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
38178	chrY	13860094	.	T	G	530.14	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
38179	chrY	13860100	.	C	G	285.79	PASS	AC=3;AF=0.300;AN=10;BaseQRankSum=
38180	chrY	13860102	.	A	C	251.19	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
38181	chrY	13860104	.	G	C	234.30	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38182	chrY	13860184	.	G	T	56.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38183	chrY	13860199	.	G	A	35.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38184	chrY	13860204	.	T	G	136.48	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
38185	chrY	13860216	.	G	A	135.43	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
38186	chrY	13860228	.	C	T	107.59	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
38187	chrY	13860229	.	A	G	104.33	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
38188	chrY	13860235	.	C	G	91.73	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
38189	chrY	13860364	.	A	G	39.77	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
38190	chrY	13860365	.	G	T	66.96	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
38191	chrY	13860367	.	T	A	85.21	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
38192	chrY	13860369	.	T	C	49.62	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
38193	chrY	13860558	.	T	C	72.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38194	chrY	13860625	.	T	C	173.25	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38195	chrY	13860645	.	T	C	34.60	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38196	chrY	13860647	.	C	T	207.42	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38197	chrY	13860648	.	T	G	94.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38198	chrY	13860650	.	G	A	167.23	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38199	chrY	13860652	.	G	A	226.90	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38200	chrY	13860664	.	C	A	53.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38201	chrY	13860668	.	A	T	59.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38202	chrY	13860748	.	T	A	67.97	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38203	chrY	13860776	.	G	A	478.29	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
38204	chrY	13860778	.	C	T	480.28	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
38205	chrY	13860779	.	T	A	95.30	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38206	chrY	13860787	.	A	G	344.98	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38207	chrY	13860789	.	G	A	414.39	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38208	chrY	13860912	.	T	A	46.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38209	chrY	13861210	.	G	A	237.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
38210	chrY	13861219	.	G	A	146.34	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
38211	chrY	13861235	.	A	G	619.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38212	chrY	13861240	.	G	A	490.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38213	chrY	13861249	.	G	C	422.23	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38214	chrY	13861254	.	G	A	197.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38215	chrY	13861255	.	G	T	157.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38216	chrY	13861332	.	C	A	45.19	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38217	chrY	13861365	.	G	A	283.79	PASS	AC=2;AF=0.033;AN=60;DP=477;FS=0.0
38218	chrY	13861469	.	G	A	2366.45	PASS	AC=15;AF=0.341;AN=44;BaseQRankSum=
38219	chrY	13861483	.	C	T	2505.07	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
38220	chrY	13861484	.	A	G	2554.45	PASS	AC=15;AF=0.341;AN=44;BaseQRankSum=
38221	chrY	13861486	.	G	A	2541.84	PASS	AC=15;AF=0.375;AN=40;BaseQRankSum=
38222	chrY	13861492	.	T	C	2411.96	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38223	chrY	13861504	.	G	T	2273.72	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
38224	chrY	13861509	.	G	T	2192.26	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
38225	chrY	13861514	.	C	G	91.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38226	chrY	13861523	.	G	A	976.88	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38227	chrY	13861527	.	T	C	332.07	PASS	AC=5;AF=0.156;AN=32;BaseQRankSum=
38228	chrY	13861528	.	A	T,G	1341.40	PASS	AC=5,5;AF=0.114,0.114;AN=44;BaseQ

38229	chrY	13861539	.	C	G	1651.65	PASS	AC=12;AF=0.300;AN=40;BaseQRankSum=
38230	chrY	13861545	.	T	A,*	2333.35	PASS	AC=6,7;AF=0.150,0.175;AN=40;BaseQ
38231	chrY	13861555	.	A	G	84.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38232	chrY	13861559	.	G	A	465.99	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
38233	chrY	13861566	.	A	T	172	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
38234	chrY	13861569	.	T	G	3233.06	PASS	AC=17;AF=0.405;AN=42;BaseQRankSum=
38235	chrY	13861573	.	A	G	2391.06	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
38236	chrY	13861579	.	G	C	245.92	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
38237	chrY	13861580	.	A	C	2254.10	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
38238	chrY	13861581	.	T	A,G	2947.37	PASS	AC=14,3;AF=0.333,0.071;AN=42;Base
38239	chrY	13861586	.	G	C	2893.61	PASS	AC=17;AF=0.405;AN=42;BaseQRankSum=
38240	chrY	13861594	.	G	A	97.20	my_snp_filter	AC=2;AF=0.040;AN=50;DP=11
38241	chrY	13861597	.	C	T	154.15	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38242	chrY	13861598	.	A	C,G	271.35	PASS	AC=1,3;AF=0.022,0.065;AN=46;BaseQ
38243	chrY	13861609	.	T	G	2185.03	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
38244	chrY	13861620	.	A	T	84.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38245	chrY	13861633	.	T	C	186.04	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
38246	chrY	13861637	.	A	T	156.13	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
38247	chrY	13861646	.	G	C	1296.32	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
38248	chrY	13861652	.	A	T	1403.23	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
38249	chrY	13861654	.	G	T	1033.15	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
38250	chrY	13861673	.	C	G,*	235.20	PASS	AC=3,1;AF=0.047,0.016;AN=64;BaseQ
38251	chrY	13861914	.	C	T	1134.39	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
38252	chrY	13861950	.	G	T	43.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38253	chrY	13861954	.	T	G	710.45	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38254	chrY	13861955	.	C	T	799.27	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
38255	chrY	13861957	.	A	T	49.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38256	chrY	13861961	.	G	T	707.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38257	chrY	13862126	.	G	A,*	7184.38	my_snp_filter	AC=1,3;AF=0.017,0.050;AN=
38258	chrY	13862128	.	G	A,*	7070.89	PASS	AC=1,2;AF=0.018,0.036;AN=56;BaseQ
38259	chrY	13862138	.	A	G	376.88	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38260	chrY	13862139	.	T	A	6856.18	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
38261	chrY	13862145	.	A	G	379.28	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38262	chrY	13862425	.	G	A	42.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38263	chrY	13862427	.	A	T	36.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38264	chrY	13862468	.	A	T	961.32	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38265	chrY	13862470	.	A	G	969.01	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
38266	chrY	13862475	.	G	T	960.52	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38267	chrY	13862499	.	G	A	7394.57	PASS	AC=44;AF=0.647;AN=68;BaseQRankSum=
38268	chrY	13862684	.	C	T	99.50	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38269	chrY	13862690	.	G	A	162.39	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38270	chrY	13862694	.	G	A	161.60	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38271	chrY	13862698	.	C	T	145.18	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
38272	chrY	13862703	.	A	T	147.29	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38273	chrY	13862704	.	A	G	147.65	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38274	chrY	13862707	.	A	G	146.05	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38275	chrY	13862708	.	T	G	95.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38276	chrY	13862711	.	T	C	148.08	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38277	chrY	13862743	.	T	C	30.43	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38278	chrY	13862753	.	C	T	222.13	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38279	chrY	13862760	.	A	G	190.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38280	chrY	13862779	.	A	T	190.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38281	chrY	13862782	.	A	T	192.99	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38282	chrY	13862788	.	G	T	151.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38283	chrY	13862803	.	T	C	114.88	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38284	chrY	13862808	.	T	A	124.77	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38285	chrY	13862814	.	G	T	120.84	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38286	chrY	13862819	.	T	C	96.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38287	chrY	13862838	.	T	C	53.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38288	chrY	13862839	.	T	G	54.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38289	chrY	13862845	.	G	C	56.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38290	chrY	13863083	.	T	G	291.77	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
38291	chrY	13863088	.	G	A	251.39	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38292	chrY	13863094	.	T	A,G	604.66	PASS	AC=2,2;AF=0.036,0.036;AN=56;BaseQ
38293	chrY	13863108	.	C	T	85.39	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
38294	chrY	13863109	.	G	C	2873.43	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38295	chrY	13863113	.	A	G	3142.89	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
38296	chrY	13863123	.	G	A	2485.01	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
38297	chrY	13863131	.	A	T	2332.82	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
38298	chrY	13863132	.	C	T	2888.09	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
38299	chrY	13863135	.	T	C	2778.64	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
38300	chrY	13863145	.	T	C	1788.68	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
38301	chrY	13863148	.	T	C	8038.93	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
38302	chrY	13863149	.	G	A	2574.35	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
38303	chrY	13863160	.	C	A	7591.94	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
38304	chrY	13863163	.	G	T	5313.05	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ

38305	chrY	13863167	.	G	C,T	6420.94	PASS	AC=7,1;AF=0.175,0.025;AN=40;BaseQ
38306	chrY	13863177	.	T	A	1858.03	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
38307	chrY	13863184	.	G	T	1076.47	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
38308	chrY	13863191	.	G	A	4743.50	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
38309	chrY	13863192	.	T	C	4657.13	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
38310	chrY	13863194	.	A	G	2648.16	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
38311	chrY	13863209	.	G	T	161.87	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
38312	chrY	13863308	.	A	G	75.55	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38313	chrY	13863314	.	A	G	55.75	my_snp_filter	AC=2;AF=0.059;AN=34;DP=11
38314	chrY	13863539	.	A	G	7051.01	PASS	AC=58;AF=1.00;AN=58;BaseQRankSum=
38315	chrY	13863575	.	T	A	128.87	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
38316	chrY	13863580	.	A	G	143.02	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38317	chrY	13863586	.	A	G	99.99	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
38318	chrY	13863592	.	A	T	177.19	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
38319	chrY	13863608	.	T	C	238.20	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
38320	chrY	13863612	.	C	T	180.93	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
38321	chrY	13863613	.	A	G	178.58	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
38322	chrY	13863629	.	A	G	221.93	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
38323	chrY	13863645	.	A	C	130.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38324	chrY	13863659	.	A	T	1260.77	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
38325	chrY	13863669	.	G	C	1308.55	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38326	chrY	13863673	.	C	T	1295.97	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
38327	chrY	13863674	.	G	A	658.54	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
38328	chrY	13863677	.	C	T	1504.10	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
38329	chrY	13863678	.	T	G	1504.12	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
38330	chrY	13863688	.	C	T	1182.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
38331	chrY	13863698	.	A	G	2402.94	PASS	AC=19;AF=0.380;AN=50;BaseQRankSum=
38332	chrY	13863699	.	T	A	1167.79	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
38333	chrY	13863712	.	T	C	79.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38334	chrY	13863713	.	G	T	1419.47	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
38335	chrY	13863719	.	G	T	77.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38336	chrY	13863730	.	G	A,*	1023.11	PASS	AC=6,1;AF=0.100,0.017;AN=60;BaseQ
38337	chrY	13863734	.	G	A,*	207.12	PASS	AC=1,1;AF=0.016,0.016;AN=62;BaseQ
38338	chrY	13863745	.	A	G	76.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38339	chrY	13863758	.	G	A	1082.33	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38340	chrY	13863763	.	T	A	896.50	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38341	chrY	13863765	.	T	A	944.34	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
38342	chrY	13863768	.	A	G	837.74	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38343	chrY	13863769	.	C	G	810.81	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
38344	chrY	13863773	.	T	C	757.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38345	chrY	13863779	.	G	A	82.04	PASS	AC=2;AF=0.030;AN=66;DP=356;FS=9.6
38346	chrY	13863784	.	C	G	507.18	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38347	chrY	13863801	.	A	T	209.27	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38348	chrY	13863948	.	A	T	7659.42	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=
38349	chrY	13864004	.	A	T	326.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38350	chrY	13864006	.	C	G	1419.27	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
38351	chrY	13864011	.	G	A	331.98	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38352	chrY	13864020	.	A	T,G	1286.50	PASS	AC=6,1;AF=0.094,0.016;AN=64;BaseQ
38353	chrY	13864035	.	T	C	1472.55	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38354	chrY	13864041	.	T	G	1343.36	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38355	chrY	13864048	.	A	G	907.43	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38356	chrY	13864051	.	G	A	910.39	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38357	chrY	13864055	.	A	G	1182.74	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
38358	chrY	13864063	.	G	T	47.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38359	chrY	13864073	.	A	G	38.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38360	chrY	13864104	.	T	G	626.17	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38361	chrY	13864123	.	A	C	582.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38362	chrY	13864126	.	C	G	541.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38363	chrY	13864135	.	G	A	421.71	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38364	chrY	13864136	.	A	C	421.52	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
38365	chrY	13864144	.	A	T	133.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38366	chrY	13864822	.	A	G	316.27	PASS	AC=2;AF=0.029;AN=70;DP=573;FS=0.0
38367	chrY	13864855	.	T	C	44.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38368	chrY	13864866	.	G	T	308.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38369	chrY	13864868	.	A	T	349.17	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38370	chrY	13864871	.	A	G	386.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38371	chrY	13864886	.	G	C	34.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38372	chrY	13864890	.	A	G	264.02	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
38373	chrY	13864893	.	A	G	59.42	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38374	chrY	13864894	.	T	A	87.49	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
38375	chrY	13864908	.	A	T	125.80	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
38376	chrY	13864910	.	G	C	126.92	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
38377	chrY	13864916	.	C	T	131.39	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38378	chrY	13864923	.	A	C	129.95	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38379	chrY	13865051	.	G	T	6184	PASS	AC=46;AF=0.719;AN=64;DP=482;FS=0.
38380	chrY	13865250	.	G	C	170.09	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ

38381	chrY	13865320	.	G	C	329.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38382	chrY	13865321	.	G	A	349.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38383	chrY	13865325	.	C	A	325.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38384	chrY	13865587	.	G	A	57.93	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
38385	chrY	13866088	.	G	T	1044.28	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38386	chrY	13866109	.	G	T,C	3151.15	PASS	AC=7,2;AF=0.167,0.048;AN=42;BaseQ
38387	chrY	13866110	.	A	G	2380.18	PASS	AC=7;AF=0.175;AN=40;BaseQRankSum=
38388	chrY	13866119	.	G	T	2161.41	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
38389	chrY	13866125	.	A	G	2792.88	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
38390	chrY	13866129	.	T	C	2492.59	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
38391	chrY	13866131	.	C	A	112.14	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
38392	chrY	13866133	.	T	G	1355.69	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
38393	chrY	13866135	.	C	T	754.84	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
38394	chrY	13866136	.	G	A	1191.59	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
38395	chrY	13866155	.	A	G	1401.35	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
38396	chrY	13866158	.	T	G	572.93	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
38397	chrY	13866169	.	T	C	606	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
38398	chrY	13866172	.	T	A	34.28	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
38399	chrY	13866202	.	A	C	521.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38400	chrY	13866205	.	T	C	526.23	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
38401	chrY	13866215	.	G	A	473.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38402	chrY	13866223	.	T	C	432.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38403	chrY	13866315	.	G	C	57.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38404	chrY	13866336	.	A	G	68.10	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
38405	chrY	13866340	.	T	G	207.17	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
38406	chrY	13866343	.	T	C	101.89	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
38407	chrY	13866344	.	C	A	86.88	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
38408	chrY	13866349	.	T	G	201.52	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
38409	chrY	13866353	.	T	A	66.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38410	chrY	13866362	.	A	C	33.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38411	chrY	13866363	.	T	A	30.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38412	chrY	13866370	.	G	T	261.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38413	chrY	13866375	.	A	G	112.57	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
38414	chrY	13866385	.	G	C,*	764.06	PASS	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
38415	chrY	13866387	.	G	C,*	1419.75	PASS	AC=9,1;AF=0.180,0.020;AN=50;BaseQ
38416	chrY	13866389	.	G	A	221.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38417	chrY	13866390	.	G	C	379.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
38418	chrY	13866395	.	C	G,*	408.08	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
38419	chrY	13866398	.	T	C,*	794.42	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
38420	chrY	13866399	.	G	A,*	347.69	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
38421	chrY	13866401	.	A	T,*	341.94	PASS	AC=1,1;AF=0.021,0.021;AN=48;BaseQ
38422	chrY	13866402	.	C	G,T,*	1295.80	PASS	AC=6,1,1;AF=0.107,0.018,0.018;AN=
38423	chrY	13866404	.	C	T,*	726.35	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
38424	chrY	13866407	.	T	A,*	345.16	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
38425	chrY	13866409	.	G	A,*	336.58	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
38426	chrY	13866413	.	T	A,*	879.23	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
38427	chrY	13866417	.	C	G,*	786.71	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
38428	chrY	13866429	.	A	G	7454.93	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
38429	chrY	13866434	.	C	T	501.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38430	chrY	13866435	.	G	C	3482.67	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
38431	chrY	13866438	.	C	T,*	968.43	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
38432	chrY	13866440	.	C	G,A	11378.92	PASS	AC=21,3;AF=0.339,0.048;AN=
38433	chrY	13866443	.	T	C	8686.55	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=
38434	chrY	13866444	.	G	A	8650.60	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum=
38435	chrY	13866450	.	G	T,*	1632.68	PASS	AC=4,11;AF=0.065,0.177;AN=62;BaseQ
38436	chrY	13866460	.	G	T,C	5354.28	PASS	AC=17,1;AF=0.243,0.014;AN=70;BaseQ
38437	chrY	13866464	.	G	A	12030.82	PASS	AC=23;AF=0.371;AN=62;BaseQ
38438	chrY	13866468	.	T	A	69.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38439	chrY	13866490	.	C	G,A	15732.89	PASS	AC=23,2;AF=0.397,0.034;AN=
38440	chrY	13866504	.	G	A	4694.28	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
38441	chrY	13866510	.	G	T	1055.81	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38442	chrY	13866514	.	C	T	196.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38443	chrY	13866515	.	G	A	2015.78	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
38444	chrY	13866520	.	C	G	19150.06	PASS	AC=22;AF=0.379;AN=58;BaseQ
38445	chrY	13866521	.	A	T	15741.25	PASS	AC=22;AF=0.379;AN=58;BaseQ
38446	chrY	13866523	.	T	C	1367.47	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
38447	chrY	13866533	.	G	A,T	4208.80	PASS	AC=7,15;AF=0.113,0.242;AN=62;BaseQ
38448	chrY	13866538	.	T	A	1531.04	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
38449	chrY	13866539	.	T	C	14851.61	PASS	AC=22;AF=0.333;AN=66;BaseQ
38450	chrY	13866545	.	G	T	249.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38451	chrY	13866548	.	T	A	13328.84	PASS	AC=21;AF=0.318;AN=66;BaseQ
38452	chrY	13866565	.	T	A	3690.86	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
38453	chrY	13866569	.	G	A	715.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38454	chrY	13866579	.	C	T	694.67	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38455	chrY	13866580	.	G	A	81.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38456	chrY	13866585	.	G	A	1221.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

38457	chrY	13866595	.	A	G	7010.76	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
38458	chrY	13866597	.	G	A	745.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38459	chrY	13866598	.	T	G	5073.41	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
38460	chrY	13866601	.	A	C	244.22	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38461	chrY	13866604	.	C	A	9353.65	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
38462	chrY	13866605	.	G	A	580.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38463	chrY	13866610	.	A	G	11971.72	PASS	PASS AC=17;AF=0.283;AN=60;BaseQ
38464	chrY	13866615	.	A	G	6549.05	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
38465	chrY	13866619	.	C	A,G	4776.13	PASS	AC=5,11;AF=0.081,0.177;AN=62;BaseQ
38466	chrY	13866621	.	T	A,G	4570.60	PASS	AC=6,9;AF=0.097,0.145;AN=62;BaseQ
38467	chrY	13866623	.	T	A	53.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38468	chrY	13866625	.	G	C	3669.63	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
38469	chrY	13866628	.	C	T	6855.51	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
38470	chrY	13866634	.	G	A	7649.96	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
38471	chrY	13866636	.	A	T	787.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38472	chrY	13866637	.	C	T	6722.03	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
38473	chrY	13866649	.	T	A,G	6486.88	PASS	AC=2,10;AF=0.029,0.147;AN=68;BaseQ
38474	chrY	13866652	.	A	C	770.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38475	chrY	13866658	.	C	T	5764.49	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
38476	chrY	13866659	.	A	G	6711.87	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
38477	chrY	13866670	.	G	A	1539.88	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
38478	chrY	13866673	.	G	T	4737.07	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
38479	chrY	13866680	.	G	A	1594.95	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
38480	chrY	13866682	.	C	A	38.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38481	chrY	13866687	.	A	G	4375.61	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
38482	chrY	13866697	.	T	C	4193.33	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
38483	chrY	13866699	.	A	C	4017.97	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
38484	chrY	13866703	.	A	C	325.68	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38485	chrY	13866705	.	G	A	811.42	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
38486	chrY	13866714	.	C	G	3719.98	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
38487	chrY	13866718	.	C	T	3541.17	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
38488	chrY	13866765	.	G	A	400.12	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum=
38489	chrY	13866779	.	A	C	400.41	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
38490	chrY	13866780	.	G	A	399.65	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
38491	chrY	13866783	.	T	C	242.39	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
38492	chrY	13866800	.	C	G	239.34	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
38493	chrY	13866813	.	T	G	166.42	PASS	AC=3;AF=0.065;AN=46;BaseQRankSum=
38494	chrY	13866950	.	A	G	1883.57	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
38495	chrY	13867011	.	T	A	49.99	my_snps_filter	AC=2;AF=0.167;AN=12;BaseQ
38496	chrY	13867033	.	A	T	33.96	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
38497	chrY	13867037	.	A	G	34.91	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
38498	chrY	13867087	.	C	A	546.73	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
38499	chrY	13867088	.	A	T	15253.32	PASS	PASS AC=56;AF=0.933;AN=60;BaseQ
38500	chrY	13867100	.	A	G	540.73	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
38501	chrY	13867105	.	G	T	526.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38502	chrY	13867110	.	T	A	627.72	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
38503	chrY	13867120	.	A	G	657.74	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
38504	chrY	13867122	.	A	G	658.25	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
38505	chrY	13867123	.	T	G	657.68	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
38506	chrY	13867128	.	C	G	432.75	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
38507	chrY	13867132	.	G	T	509.95	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
38508	chrY	13867137	.	A	G	598.33	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
38509	chrY	13867147	.	G	A	805.19	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38510	chrY	13867153	.	C	G	830.76	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38511	chrY	13867154	.	T	A	830.37	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38512	chrY	13867155	.	T	A	827.98	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38513	chrY	13867158	.	A	G	784.33	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38514	chrY	13867161	.	A	T	1030.32	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38515	chrY	13867191	.	A	T	533.88	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
38516	chrY	13867201	.	C	T	382.39	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
38517	chrY	13867206	.	A	T	384.91	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
38518	chrY	13867232	.	G	T	103.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38519	chrY	13867250	.	A	G	668.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38520	chrY	13867262	.	A	G	1142.89	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
38521	chrY	13867268	.	T	C	587.92	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
38522	chrY	13867272	.	T	G	1357.77	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
38523	chrY	13867280	.	A	G	243.53	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38524	chrY	13867282	.	C	T	392.95	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
38525	chrY	13867283	.	G	A	239.06	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38526	chrY	13867303	.	G	A	1003.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38527	chrY	13867304	.	A	C	255.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38528	chrY	13867308	.	G	T	2369.92	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38529	chrY	13867316	.	T	A	2642.65	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
38530	chrY	13867325	.	A	T	236.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38531	chrY	13867328	.	A	G	4192.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
38532	chrY	13867333	.	G	C	287.76	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=

38533	chrY	13867337	.	G	T	2131.06	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38534	chrY	13867345	.	C	T	3790.96	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
38535	chrY	13867354	.	G	A	6742.01	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
38536	chrY	13867361	.	T	A	1231.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38537	chrY	13867407	.	C	G	229.26	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
38538	chrY	13867417	.	A	G	200.35	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
38539	chrY	13867422	.	G	T	216.13	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
38540	chrY	13867426	.	C	T	217.80	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
38541	chrY	13867428	.	A	G	216.17	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
38542	chrY	13867442	.	T	G	212.03	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
38543	chrY	13867486	.	C	A	577.25	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
38544	chrY	13867542	.	G	A	67.03	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38545	chrY	13867671	.	G	A	211.23	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38546	chrY	13867676	.	C	G	208.74	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38547	chrY	13867811	.	T	C	84.73	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38548	chrY	13867816	.	T	G	582.05	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38549	chrY	13867821	.	G	T	71.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38550	chrY	13867827	.	G	T	66.58	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38551	chrY	13867840	.	C	T,A	34612.48	PASS	AC=10,1;AF=0.333,0.033;AN
38552	chrY	13867842	.	C	G	38244.86	PASS	AC=11;AF=0.367;AN=30;Base
38553	chrY	13867849	.	A	C	31548.15	PASS	AC=11;AF=0.344;AN=32;Base
38554	chrY	13867851	.	C	G	34057.35	PASS	AC=11;AF=0.367;AN=30;Base
38555	chrY	13867852	.	G	T	34410.91	PASS	AC=11;AF=0.367;AN=30;Base
38556	chrY	13867862	.	C	G	356.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38557	chrY	13868209	.	G	C	732.26	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
38558	chrY	13868230	.	G	A	1082.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38559	chrY	13868254	.	T	A	968.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38560	chrY	13868265	.	T	G	834.45	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
38561	chrY	13868271	.	G	C	738.62	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
38562	chrY	13868279	.	A	T	712.32	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
38563	chrY	13868291	.	G	A	437.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38564	chrY	13868375	.	G	A	690.21	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38565	chrY	13868414	.	T	C	1050.60	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
38566	chrY	13868439	.	T	C	79.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38567	chrY	13868450	.	G	T	60.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38568	chrY	13868452	.	A	T	55.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38569	chrY	13868460	.	C	G	283	PASS	AC=2;AF=0.167;AN=12;BaseQRankSum=
38570	chrY	13868461	.	G	A	223.85	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
38571	chrY	13868516	.	C	A	215.68	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
38572	chrY	13868546	.	G	C	158.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38573	chrY	13868557	.	A	T	48.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38574	chrY	13868559	.	T	G	1368.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38575	chrY	13868561	.	G	A	153.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38576	chrY	13868563	.	A	T	1280.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38577	chrY	13868565	.	G	A	55.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38578	chrY	13868571	.	G	A	3422.04	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38579	chrY	13868572	.	T	A	209.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38580	chrY	13868576	.	G	A	1534.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38581	chrY	13868585	.	G	C	3588.53	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
38582	chrY	13868586	.	A	G	4304.32	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38583	chrY	13868599	.	A	C	1090.15	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
38584	chrY	13868600	.	C	A	943.88	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
38585	chrY	13868610	.	T	G	2791.94	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
38586	chrY	13868621	.	G	A	869.27	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
38587	chrY	13868625	.	G	A	975.19	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38588	chrY	13868629	.	T	C	856.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38589	chrY	13868635	.	G	A	695.01	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
38590	chrY	13868638	.	A	T	1644.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38591	chrY	13868641	.	G	C	1607.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38592	chrY	13868644	.	A	T	1763.43	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
38593	chrY	13868645	.	G	A	1555.39	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
38594	chrY	13868650	.	G	A	1410.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38595	chrY	13868655	.	C	T	1666.52	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
38596	chrY	13868665	.	T	G	1431.54	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
38597	chrY	13868676	.	A	G	1273.40	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
38598	chrY	13868692	.	A	T	228.77	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38599	chrY	13868694	.	T	G	192.16	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38600	chrY	13868696	.	G	A	178.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38601	chrY	13868697	.	A	T	75.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
38602	chrY	13868699	.	T	A	73.85	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
38603	chrY	13868701	.	G	T	193.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38604	chrY	13868706	.	G	A	206.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
38605	chrY	13868707	.	A	T	285.83	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
38606	chrY	13868714	.	T	A	3596.74	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
38607	chrY	13868715	.	G	A	204.24	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
38608	chrY	13868720	.	G	T	72.59	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ

38609	chrY	13868721	.	G	A	44.42	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
38610	chrY	13868722	.	A	T	2469.76	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
38611	chrY	13868724	.	T	C	1733.03	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
38612	chrY	13868729	.	T	A	459.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38613	chrY	13868730	.	G	A	76.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
38614	chrY	13868731	.	G	C	161.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38615	chrY	13868734	.	T	C	465.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38616	chrY	13868736	.	C	T	45.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38617	chrY	13868738	.	A	G	86.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38618	chrY	13868739	.	T	A	467.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38619	chrY	13868740	.	G	A	40.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38620	chrY	13868746	.	G	C	54.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
38621	chrY	13868749	.	C	T	259.86	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
38622	chrY	13868753	.	G	A	44.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38623	chrY	13868756	.	A	G	867.19	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
38624	chrY	13868760	.	C	T	304.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38625	chrY	13868761	.	G	T	39.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38626	chrY	13868769	.	C	T,*	1464.09	PASS	AC=5,7;AF=0.076,0.106;AN=66;BaseQ
38627	chrY	13868770	.	A	G,*	1577.77	PASS	AC=6,7;AF=0.091,0.106;AN=66;BaseQ
38628	chrY	13868795	.	G	C	449.28	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
38629	chrY	13868805	.	T	C	356.48	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
38630	chrY	13868819	.	A	T	184.47	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum
38631	chrY	13868826	.	C	G	80.66	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
38632	chrY	13868839	.	T	A	32.62	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
38633	chrY	13869104	.	T	C	1313.98	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum
38634	chrY	13869239	.	G	C	63.97	PASS	AC=2;AF=0.100;AN=20;DP=8093;FS=0.
38635	chrY	13869245	.	A	C	1104.52	PASS	AC=6;AF=0.136;AN=44;DP=4840;FS=0.
38636	chrY	13869489	.	A	C	128.68	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum
38637	chrY	13869490	.	T	C	129.81	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum
38638	chrY	13869742	.	A	G	73.68	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
38639	chrY	13869769	.	G	T	1133.77	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum
38640	chrY	13869799	.	C	G	428.46	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum
38641	chrY	13869802	.	A	C	359.59	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum
38642	chrY	13869814	.	A	G	42.33	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
38643	chrY	13870004	.	T	G	105.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
38644	chrY	13870023	.	G	A	77.79	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum
38645	chrY	13870029	.	C	T	161.75	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum
38646	chrY	13870032	.	T	A	40.52	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum
38647	chrY	13870049	.	T	A	100.86	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
38648	chrY	13870053	.	T	A	120.74	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum
38649	chrY	13873384	.	T	C	88.81	PASS	AC=10;AF=0.147;AN=68;DP=93;FS=0.0
38650	chrY	13874135	.	C	G	996.66	PASS	AC=6;AF=0.086;AN=70;DP=296;FS=0.0
38651	chrY	13874766	.	A	G	39.26	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
38652	chrY	13874859	.	G	C	210.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
38653	chrY	13874880	.	C	T	118.32	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
38654	chrY	13874881	.	C	A	118.32	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
38655	chrY	13875206	.	C	T	1012.23	PASS	AC=6;AF=0.086;AN=70;DP=623;FS=0.0
38656	chrY	13876479	.	G	T	311.03	PASS	AC=2;AF=0.111;AN=18;DP=193;FS=0.0
38657	chrY	13877586	.	C	T	1124.35	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum
38658	chrY	13878432	.	A	T	79.47	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum
38659	chrY	13878588	.	G	A	1038.17	PASS	AC=14;AF=0.875;AN=16;DP=62;FS=3.5
38660	chrY	13879034	.	A	T	227.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38661	chrY	13880120	.	T	G	6251.74	PASS	AC=44;AF=0.647;AN=68;DP=338;FS=0.
38662	chrY	13882646	.	A	C	1081.20	PASS	AC=6;AF=0.086;AN=70;DP=344;FS=0.0
38663	chrY	13883369	.	G	A	46.93	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38664	chrY	13883407	.	A	G	956.05	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
38665	chrY	13883722	.	A	G	92.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
38666	chrY	13883908	.	A	T	401.32	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
38667	chrY	13883999	.	A	G	254.61	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
38668	chrY	13884008	.	G	T	250.28	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
38669	chrY	13884139	.	T	C	1105.12	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
38670	chrY	13884163	.	T	C	1448.90	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum
38671	chrY	13884278	.	C	A	4115.36	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum
38672	chrY	13884396	.	G	A	733.81	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum
38673	chrY	13884423	.	A	G	703.79	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum
38674	chrY	13884445	.	G	A	568.49	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum
38675	chrY	13884506	.	A	G	113.75	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum
38676	chrY	13884507	.	A	G	114.48	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum
38677	chrY	13886423	.	T	A	32.37	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum
38678	chrY	13886457	.	C	G	31.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38679	chrY	13886464	.	A	G	34.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
38680	chrY	13886846	.	G	T	4429.21	PASS	AC=38;AF=1.00;AN=38;DP=175;FS=0.0
38681	chrY	13886875	.	C	G	1208.11	PASS	AC=6;AF=0.136;AN=44;DP=161;FS=0.0
38682	chrY	13887941	.	A	G	9232.02	PASS	AC=68;AF=1.00;AN=68;DP=338;FS=0.0
38683	chrY	13888443	.	T	C	315.84	PASS	AC=4;AF=0.063;AN=64;DP=329;FS=0.0
38684	chrY	13889472	.	C	T	68.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum

38685	chrY	13890176	.	A	G	3097	PASS	AC=20;AF=1.00;AN=20;DP=133;FS=0.0
38686	chrY	13891133	.	C	A	346.31	PASS	AC=2;AF=0.029;AN=70;DP=435;FS=0.0
38687	chrY	13891657	.	C	A	2102.87	PASS	AC=34;AF=0.548;AN=62;DP=220;FS=0.0
38688	chrY	13894687	.	G	A	766.21	PASS	AC=6;AF=0.086;AN=70;DP=427;FS=0.0
38689	chrY	13895063	.	G	A	459.15	PASS	AC=2;AF=0.031;AN=64;DP=279;FS=0.0
38690	chrY	13896473	.	C	T	423.01	PASS	AC=4;AF=0.059;AN=68;DP=413;FS=0.0
38691	chrY	13898621	.	C	G	473.64	PASS	AC=6;AF=0.086;AN=70;DP=228;FS=0.0
38692	chrY	13898759	.	T	G	840.14	PASS	AC=14;AF=0.500;AN=28;BaseQRankSum=
38693	chrY	13899767	.	T	C	632.63	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
38694	chrY	13900281	.	T	C	7886.06	PASS	AC=62;AF=1.00;AN=62;DP=281;FS=0.0
38695	chrY	13903151	.	T	C	171.79	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38696	chrY	13903163	.	A	G	229.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38697	chrY	13903202	.	A	G	6123.64	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
38698	chrY	13906690	.	T	A	43.19	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
38699	chrY	13907422	.	A	G	17693.95	PASS	AC=70;AF=1.00;AN=70;DP=59
38700	chrY	13907799	.	T	G	9465.38	PASS	AC=52;AF=0.813;AN=64;DP=406;FS=0.0
38701	chrY	13908362	.	A	G	711.56	my_snp_filter	AC=13;AF=0.186;AN=70;Base
38702	chrY	13908604	.	T	C	39.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38703	chrY	13908613	.	T	G	40.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38704	chrY	13908650	.	A	C	34.43	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
38705	chrY	13908706	.	G	T	1136.76	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
38706	chrY	13908787	.	T	G	9255.69	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
38707	chrY	13908941	.	G	A	17619.80	PASS	AC=36;AF=0.514;AN=70;Base
38708	chrY	13909007	.	A	G	17879.07	PASS	AC=41;AF=0.586;AN=70;Base
38709	chrY	13909032	.	G	A	13272.15	PASS	AC=34;AF=0.548;AN=62;Base
38710	chrY	13909050	.	G	A	10560.29	PASS	AC=38;AF=0.594;AN=64;Base
38711	chrY	13909081	.	A	G	3457.23	PASS	AC=32;AF=0.593;AN=54;BaseQRankSum=
38712	chrY	13909140	.	T	C	658.06	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
38713	chrY	13909162	.	A	G	455.26	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
38714	chrY	13909177	.	T	C	433.07	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
38715	chrY	13909208	.	G	A	1308.48	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
38716	chrY	13917504	.	A	G	872.13	PASS	AC=6;AF=0.086;AN=70;DP=439;FS=0.0
38717	chrY	13926311	.	T	C	30.33	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
38718	chrY	13926316	.	C	T	30.28	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
38719	chrY	13930193	.	G	A	49.75	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
38720	chrY	13930200	.	G	A	47.24	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38721	chrY	13930206	.	G	A	44.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38722	chrY	13930211	.	G	A	42.88	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
38723	chrY	13931591	.	T	C	69.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38724	chrY	13932542	.	C	G	410.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
38725	chrY	13939269	.	G	T	202.20	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
38726	chrY	13939338	.	G	C	1245.96	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
38727	chrY	13939349	.	A	G	843.55	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=
38728	chrY	13939373	.	T	C	2049.70	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
38729	chrY	13939446	.	C	A	4151.74	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
38730	chrY	13939492	.	G	C	2292.98	my_snp_filter	AC=26;AF=0.371;AN=70;Base
38731	chrY	13939517	.	C	T	1122.38	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
38732	chrY	13944438	.	A	T	56.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38733	chrY	13945593	.	T	A	3209.92	PASS	AC=28;AF=1.00;AN=28;DP=128;FS=0.0
38734	chrY	13949200	.	G	A	3587.25	PASS	AC=34;AF=0.531;AN=64;DP=284;FS=0.0
38735	chrY	13949258	.	G	A	1550.80	PASS	AC=6;AF=0.091;AN=66;DP=527;FS=0.0
38736	chrY	13949466	.	G	A	1580.67	PASS	AC=6;AF=0.086;AN=70;DP=623;FS=0.0
38737	chrY	13951585	.	T	A	311.60	PASS	AC=8;AF=0.308;AN=26;DP=121;FS=0.0
38738	chrY	13952214	.	C	T	185.68	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
38739	chrY	13952218	.	T	C	218.95	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
38740	chrY	13952265	.	T	C	793.08	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
38741	chrY	13952278	.	A	C	609.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
38742	chrY	13952297	.	A	G	357.19	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
38743	chrY	13952304	.	A	G	166.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
38744	chrY	13952311	.	G	C	121.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38745	chrY	13952374	.	C	T	128.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38746	chrY	13952382	.	C	T	46.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38747	chrY	13954494	.	A	T	375.86	PASS	AC=6;AF=0.097;AN=62;DP=255;FS=0.0
38748	chrY	13957017	.	C	T	1225.85	my_snp_filter	AC=11;AF=0.157;AN=70;Base
38749	chrY	13958741	.	C	T	1016.97	PASS	AC=6;AF=0.086;AN=70;DP=682;FS=0.0
38750	chrY	13961257	.	T	C	721.89	PASS	AC=6;AF=0.086;AN=70;DP=668;FS=0.0
38751	chrY	13962840	.	T	C	279.19	PASS	AC=4;AF=0.059;AN=68;DP=412;FS=0.0
38752	chrY	13963821	.	T	C	4756.07	PASS	AC=48;AF=1.00;AN=48;DP=175;FS=0.0
38753	chrY	13963822	.	T	A	553.71	PASS	AC=6;AF=0.125;AN=48;DP=189;FS=0.0
38754	chrY	13964228	.	T	C	48.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38755	chrY	13966289	.	G	T	1129.61	PASS	AC=6;AF=0.091;AN=66;DP=429;FS=0.0
38756	chrY	13966693	.	C	G	545.47	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
38757	chrY	13968869	.	C	A	215.38	PASS	AC=2;AF=0.030;AN=66;DP=314;FS=0.0
38758	chrY	13971440	.	C	T	192.99	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
38759	chrY	13971449	.	C	T	128.92	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
38760	chrY	13971462	.	A	G	389.47	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=

38761	chrY	13971479	.	A	G	490.72	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
38762	chrY	13971547	.	G	A	749.30	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
38763	chrY	13971595	.	G	A	450.72	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
38764	chrY	13971599	.	G	A	429.07	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38765	chrY	13971609	.	G	A	390.19	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38766	chrY	13971629	.	A	G	127.74	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38767	chrY	13974074	.	G	A	362.41	PASS	AC=2;AF=0.029;AN=70;DP=535;FS=0.0
38768	chrY	13976148	.	C	A	476.15	PASS	AC=6;AF=0.086;AN=70;DP=566;FS=0.0
38769	chrY	13977048	.	A	G	623.34	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
38770	chrY	13977089	.	A	G	644.22	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
38771	chrY	13977094	.	C	T	84.71	PASS	AC=2;AF=0.029;AN=68;DP=372;FS=0.0
38772	chrY	13977096	.	G	C	543.18	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
38773	chrY	13977127	.	G	A	174.31	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38774	chrY	13977131	.	T	C	177.62	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38775	chrY	13980198	.	C	T	1349.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
38776	chrY	13985147	.	C	T	1989.87	PASS	AC=34;AF=0.654;AN=52;DP=222;FS=0.0
38777	chrY	13988782	.	T	C	156.65	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38778	chrY	13988786	.	T	C	159.42	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38779	chrY	13988789	.	C	T	159.48	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38780	chrY	13988795	.	T	C	163.17	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
38781	chrY	13988803	.	A	G	77.71	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
38782	chrY	13989021	.	C	T	62.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38783	chrY	13989022	.	C	G	62.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
38784	chrY	13989026	.	C	T	62.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38785	chrY	13989028	.	C	T	62.19	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38786	chrY	13989029	.	T	C	62.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38787	chrY	13991351	.	G	T	902.22	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.0
38788	chrY	13991417	.	G	A	1020.21	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.0
38789	chrY	13994675	.	G	A	1291.93	PASS	AC=6;AF=0.086;AN=70;DP=610;FS=0.0
38790	chrY	13995307	.	T	G	13405.71	PASS	AC=52;AF=0.743;AN=70;DP=6
38791	chrY	13995966	.	T	C	809.08	PASS	AC=4;AF=0.057;AN=70;DP=516;FS=0.0
38792	chrY	13995972	.	T	A	2387.14	PASS	AC=12;AF=0.171;AN=70;DP=505;FS=0.0
38793	chrY	13996129	.	A	G	104.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38794	chrY	13996133	.	G	A	101.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38795	chrY	13996141	.	A	C	104.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38796	chrY	13996142	.	C	T	105.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38797	chrY	13996214	.	A	T	212.95	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38798	chrY	13996220	.	T	G	210.06	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38799	chrY	13996226	.	C	A	216.11	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38800	chrY	13996227	.	A	C	215.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38801	chrY	13996230	.	T	C	212.50	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
38802	chrY	13996242	.	G	A	170.93	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
38803	chrY	13996248	.	T	A	170.75	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38804	chrY	13996249	.	G	A	170.70	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38805	chrY	13996250	.	C	G	131.70	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
38806	chrY	13996604	.	C	A	1375.43	PASS	AC=6;AF=0.086;AN=70;DP=617;FS=0.0
38807	chrY	13998219	.	C	T	1103.37	PASS	AC=6;AF=0.250;AN=24;DP=138;FS=0.0
38808	chrY	14001179	.	G	A	637.72	PASS	AC=4;AF=0.059;AN=68;DP=384;FS=0.0
38809	chrY	14005779	.	A	G	2249.88	PASS	AC=18;AF=1.00;AN=18;DP=100;FS=0.0
38810	chrY	14006122	.	C	T	984.80	PASS	AC=6;AF=0.086;AN=70;DP=488;FS=0.0
38811	chrY	14006436	.	C	T	5984.34	PASS	AC=26;AF=0.371;AN=70;DP=515;FS=0.0
38812	chrY	14008621	.	G	T	1125.45	PASS	AC=6;AF=0.086;AN=70;DP=268;FS=0.0
38813	chrY	14009001	.	G	T	640.58	PASS	AC=6;AF=0.086;AN=70;DP=340;FS=0.0
38814	chrY	14010080	.	T	A	485.76	PASS	AC=2;AF=0.029;AN=70;DP=388;FS=0.0
38815	chrY	14012713	.	A	G	1190.27	PASS	AC=2;AF=0.029;AN=70;DP=579;FS=0.0
38816	chrY	14013101	.	G	A	4347.96	PASS	AC=48;AF=0.727;AN=66;DP=307;FS=0.0
38817	chrY	14019497	.	C	A	648.18	PASS	AC=6;AF=0.300;AN=20;DP=140;FS=0.0
38818	chrY	14021265	.	G	T	701.10	PASS	AC=6;AF=0.086;AN=70;DP=586;FS=0.0
38819	chrY	14029663	.	G	A	750.49	PASS	AC=4;AF=0.057;AN=70;DP=532;FS=0.0
38820	chrY	14032186	.	A	C	437.33	PASS	AC=2;AF=0.029;AN=70;DP=414;FS=0.0
38821	chrY	14034448	.	T	C	429.22	PASS	AC=2;AF=0.029;AN=70;DP=429;FS=0.0
38822	chrY	14036412	.	C	A	9660.58	PASS	AC=52;AF=0.743;AN=70;DP=463;FS=0.0
38823	chrY	14036486	.	G	A	10490.90	PASS	AC=52;AF=0.743;AN=70;BaseQ
38824	chrY	14037152	.	C	T	382.31	PASS	AC=2;AF=0.029;AN=70;DP=522;FS=0.0
38825	chrY	14037833	.	C	T	93.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38826	chrY	14038274	.	C	G	295.18	PASS	AC=2;AF=0.029;AN=70;DP=741;FS=0.0
38827	chrY	14040630	.	C	G	345.53	PASS	AC=2;AF=0.029;AN=68;DP=400;FS=0.0
38828	chrY	14040717	.	A	G	135.26	PASS	AC=2;AF=0.029;AN=70;DP=504;FS=0.0
38829	chrY	14042701	.	T	C	7523.23	PASS	AC=64;AF=1.00;AN=64;DP=267;FS=0.0
38830	chrY	14043151	.	C	T	294.36	PASS	AC=2;AF=0.029;AN=70;DP=526;FS=0.0
38831	chrY	14046765	.	C	T	82.39	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
38832	chrY	14048219	.	T	C	154.25	PASS	AC=2;AF=0.029;AN=70;DP=353;FS=0.0
38833	chrY	14050022	.	C	T	1394.55	PASS	AC=6;AF=0.200;AN=30;DP=190;FS=0.0
38834	chrY	14055718	.	G	A	39.42	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
38835	chrY	14055727	.	A	C	36.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
38836	chrY	14055728	.	C	T	36.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ

38837	chrY	14055843	.	A	G	74.47	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
38838	chrY	14055873	.	C	T	148.98	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
38839	chrY	14055892	.	A	G	94.94	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38840	chrY	14055903	.	C	T	94.68	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
38841	chrY	14055916	.	C	A	65.62	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
38842	chrY	14056823	.	G	A	1006.25	PASS	AC=6;AF=0.333;AN=18;DP=147;FS=0.0
38843	chrY	14060639	.	T	A	462.43	PASS	AC=4;AF=0.105;AN=38;DP=83;FS=0.00
38844	chrY	14065592	.	T	C	2061.43	PASS	AC=6;AF=0.086;AN=70;DP=661;FS=0.0
38845	chrY	14065715	.	A	G	1746.34	PASS	AC=4;AF=0.057;AN=70;DP=644;FS=0.0
38846	chrY	14066046	.	G	C	9739.92	PASS	AC=38;AF=0.559;AN=68;DP=548;FS=0
38847	chrY	14067841	.	C	G	38.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
38848	chrY	14067860	.	A	G	55.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
38849	chrY	14071209	.	T	A	5711.25	PASS	AC=52;AF=0.743;AN=70;DP=303;FS=0.
38850	chrY	14071348	.	A	T	3225.28	PASS	AC=36;AF=1.00;AN=36;DP=92;FS=0.00
38851	chrY	14071351	.	C	T	3061.39	PASS	AC=36;AF=1.00;AN=36;DP=84;FS=0.00
38852	chrY	14074744	.	C	T	72.04	PASS	AC=2;AF=0.034;AN=58;DP=211;FS=0.0
38853	chrY	14076879	.	C	A	1010.22	PASS	AC=6;AF=0.088;AN=68;DP=537;FS=0.0
38854	chrY	14079811	.	A	T	12686.90	PASS	AC=70;AF=1.00;AN=70;DP=42
38855	chrY	14080223	.	C	T	722.46	PASS	AC=4;AF=0.059;AN=68;DP=335;FS=0.0
38856	chrY	14081111	.	A	G	496.48	PASS	AC=2;AF=0.029;AN=70;DP=425;FS=0.0
38857	chrY	14083486	.	A	G	117.79	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38858	chrY	14085009	.	G	T	1031.18	PASS	AC=6;AF=0.086;AN=70;DP=516;FS=0.0
38859	chrY	14088642	.	G	C	9448.90	PASS	AC=50;AF=0.735;AN=68;DP=444;FS=0.
38860	chrY	14091959	.	G	A	1244.55	PASS	AC=6;AF=0.088;AN=68;DP=340;FS=0.0
38861	chrY	14096649	.	A	G	334.46	PASS	AC=6;AF=0.091;AN=66;DP=195;FS=0.0
38862	chrY	14096676	.	A	T	487.25	PASS	AC=6;AF=0.086;AN=70;DP=274;FS=0.0
38863	chrY	14096806	.	G	A	880.85	PASS	AC=6;AF=0.086;AN=70;DP=389;FS=0.0
38864	chrY	14097025	.	G	A	1083.66	PASS	AC=6;AF=0.086;AN=70;DP=506;FS=0.0
38865	chrY	14100019	.	G	A	202.80	PASS	AC=2;AF=0.032;AN=62;DP=350;FS=0.0
38866	chrY	14100436	.	C	T	159.80	PASS	AC=2;AF=0.033;AN=60;DP=196;FS=0.0
38867	chrY	14101136	.	C	T	246.86	PASS	AC=2;AF=0.100;AN=20;DP=141;FS=0.0
38868	chrY	14101360	.	T	C	55.10	PASS	AC=2;AF=0.045;AN=44;DP=169;FS=0.0
38869	chrY	14101575	.	T	C	1144.21	PASS	AC=2;AF=0.029;AN=70;DP=589;FS=0.0
38870	chrY	14102979	.	T	G	224.24	PASS	AC=4;AF=0.057;AN=70;DP=566;FS=0.0
38871	chrY	14103489	.	G	T	1193.84	PASS	AC=6;AF=0.086;AN=70;DP=389;FS=0.0
38872	chrY	14104939	.	C	A	2654.96	PASS	AC=40;AF=0.645;AN=62;DP=255;FS=0.
38873	chrY	14107068	.	A	C	714.77	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
38874	chrY	14107314	.	T	C	425.85	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
38875	chrY	14107438	.	C	T	341.76	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
38876	chrY	14107471	.	G	T	189.47	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
38877	chrY	14109477	.	A	C	41.46	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
38878	chrY	14109657	.	T	G	54.28	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
38879	chrY	14109694	.	C	A	264.46	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
38880	chrY	14109721	.	G	T	243.03	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
38881	chrY	14109802	.	C	A	151.78	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
38882	chrY	14110634	.	T	C	836.85	PASS	AC=6;AF=0.300;AN=20;DP=172;FS=0.0
38883	chrY	14110723	.	G	A	1147.21	PASS	AC=6;AF=0.333;AN=18;DP=158;FS=0.0
38884	chrY	14111596	.	C	A	1138.21	PASS	AC=6;AF=0.333;AN=18;DP=148;FS=0.0
38885	chrY	14113581	.	A	T	73.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
38886	chrY	14113588	.	C	A	70.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
38887	chrY	14113595	.	T	G	69.45	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
38888	chrY	14113596	.	G	A	69.57	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
38889	chrY	14114741	.	G	T	1170.07	PASS	AC=6;AF=0.300;AN=20;DP=139;FS=0.0
38890	chrY	14116584	.	A	T	11397.89	PASS	AC=68;AF=1.00;AN=68;DP=38
38891	chrY	14117810	.	T	C	13239.95	PASS	AC=66;AF=1.00;AN=66;DP=43
38892	chrY	14118948	.	C	A	622.02	PASS	AC=2;AF=0.111;AN=18;DP=191;FS=0.0
38893	chrY	14119160	.	T	G	1190.18	PASS	AC=6;AF=0.333;AN=18;DP=178;FS=0.0
38894	chrY	14119326	.	T	C	1161.23	PASS	AC=6;AF=0.333;AN=18;DP=154;FS=0.0
38895	chrY	14120054	.	T	A	4394.86	PASS	AC=18;AF=1.00;AN=18;DP=170;FS=0.0
38896	chrY	14123696	.	T	G	33.61	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38897	chrY	14123699	.	A	G	33.58	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38898	chrY	14123707	.	A	G	42.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
38899	chrY	14123721	.	C	T	33.61	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38900	chrY	14123729	.	C	T	36.75	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
38901	chrY	14123741	.	C	A	36.80	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38902	chrY	14123744	.	T	C	36.78	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
38903	chrY	14123815	.	A	C	71.50	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
38904	chrY	14123816	.	G	T	71.23	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
38905	chrY	14123819	.	T	A	71.51	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
38906	chrY	14123846	.	C	T	60.04	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
38907	chrY	14123850	.	A	G	57.50	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
38908	chrY	14123853	.	A	G	57.85	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
38909	chrY	14123856	.	T	C	57.04	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
38910	chrY	14123857	.	G	A	57.08	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
38911	chrY	14123868	.	A	G	49.44	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
38912	chrY	14123872	.	T	A	59.51	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=

38913	chrY	14124940	.	C	G	6385.75	PASS	AC=52;AF=0.813;AN=64;DP=302;FS=0.
38914	chrY	14128164	.	T	C	699.89	PASS	AC=6;AF=0.300;AN=20;DP=112;FS=0.0
38915	chrY	14128727	.	C	T	3750.86	PASS	AC=18;AF=1.00;AN=18;DP=147;FS=0.0
38916	chrY	14136291	.	A	G	21530.93	PASS	AC=68;AF=1.00;AN=68;DP=73
38917	chrY	14137030	.	C	T	7581.38	PASS	AC=46;AF=0.657;AN=70;DP=413;FS=0.
38918	chrY	14140442	.	G	A	555.27	PASS	AC=2;AF=0.029;AN=70;DP=457;FS=0.0
38919	chrY	14144641	.	G	T	14478.93	PASS	AC=70;AF=1.00;AN=70;DP=48
38920	chrY	14149422	.	G	T	233.27	PASS	AC=2;AF=0.083;AN=24;DP=139;FS=0.0
38921	chrY	14149772	.	T	C	11760.73	PASS	AC=58;AF=0.829;AN=70;DP=5
38922	chrY	14156152	.	A	G	4060.57	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum
38923	chrY	14156566	.	C	G	249.79	PASS	AC=2;AF=0.100;AN=20;DP=164;FS=0.0
38924	chrY	14157236	.	T	C	278.75	PASS	AC=2;AF=0.100;AN=20;DP=180;FS=0.0
38925	chrY	14160364	.	A	G	350.60	PASS	AC=8;AF=0.308;AN=26;DP=211;FS=0.0
38926	chrY	14160599	.	C	T	1629.19	PASS	AC=6;AF=0.333;AN=18;DP=159;FS=0.0
38927	chrY	14160921	.	G	C	1217.43	PASS	AC=6;AF=0.273;AN=22;DP=159;FS=0.0
38928	chrY	14162311	.	G	A	1017.52	PASS	AC=8;AF=0.400;AN=20;DP=169;FS=0.0
38929	chrY	14164231	.	G	A	672.75	PASS	AC=2;AF=0.100;AN=20;DP=171;FS=0.0
38930	chrY	14165942	.	C	A	1093.39	PASS	AC=6;AF=0.273;AN=22;DP=147;FS=0.0
38931	chrY	14166869	.	C	G	876.81	PASS	AC=6;AF=0.300;AN=20;DP=157;FS=0.0
38932	chrY	14167369	.	T	C	817.57	PASS	AC=6;AF=0.333;AN=18;DP=166;FS=0.0
38933	chrY	14168453	.	G	T	852.84	PASS	AC=6;AF=0.100;AN=60;DP=171;FS=0.0
38934	chrY	14169993	.	T	C	807.76	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
38935	chrY	14171665	.	T	C	6217.03	PASS	AC=56;AF=0.824;AN=68;DP=274;FS=0.
38936	chrY	14171812	.	T	G	6581.97	PASS	AC=55;AF=0.809;AN=68;BaseQRankSum
38937	chrY	14172005	.	T	C	12066.82	PASS	AC=46;AF=0.657;AN=70;DP=6
38938	chrY	14172513	.	T	C	37.91	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
38939	chrY	14172523	.	A	G	41.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
38940	chrY	14172758	.	T	C	65.58	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
38941	chrY	14172762	.	C	A	60.04	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
38942	chrY	14174283	.	G	A	1480.74	PASS	AC=6;AF=0.088;AN=68;DP=621;FS=0.0
38943	chrY	14174454	.	G	A	18611.08	PASS	AC=52;AF=0.743;AN=70;DP=7
38944	chrY	14178161	.	G	A	772.45	PASS	AC=6;AF=0.086;AN=70;DP=540;FS=0.0
38945	chrY	14178942	.	A	C	382.94	PASS	AC=2;AF=0.077;AN=26;DP=160;FS=0.0
38946	chrY	14179970	.	C	T	2905.54	PASS	AC=40;AF=0.690;AN=58;DP=269;FS=0.
38947	chrY	14181646	.	T	C	2602.33	PASS	AC=34;AF=0.739;AN=46;DP=228;FS=0.
38948	chrY	14182537	.	C	T	458.02	PASS	AC=2;AF=0.111;AN=18;DP=172;FS=0.0
38949	chrY	14184743	.	T	A	47.76	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
38950	chrY	14192779	.	G	A	94.34	PASS	AC=2;AF=0.029;AN=70;DP=424;FS=0.0
38951	chrY	14193384	.	A	G	17295.92	PASS	AC=70;AF=1.00;AN=70;BaseQ
38952	chrY	14194231	.	T	C	31.88	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum
38953	chrY	14194583	.	T	A	1230.69	PASS	AC=6;AF=0.088;AN=68;DP=508;FS=0.0
38954	chrY	14195377	.	T	A	618.08	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
38955	chrY	14197551	.	G	A	416.46	PASS	AC=2;AF=0.030;AN=66;DP=273;FS=0.0
38956	chrY	14197867	.	A	G	1111.47	PASS	AC=6;AF=0.086;AN=70;DP=549;FS=0.0
38957	chrY	14199284	.	C	T	8120.20	PASS	AC=56;AF=0.824;AN=68;DP=361;FS=0.
38958	chrY	14203192	.	C	T	34.93	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
38959	chrY	14203197	.	A	T	37.99	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
38960	chrY	14205302	.	A	C	6306.20	PASS	AC=52;AF=0.963;AN=54;BaseQRankSum
38961	chrY	14206273	.	A	G	342.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
38962	chrY	14206892	.	C	T	9058.18	PASS	AC=52;AF=0.743;AN=70;DP=438;FS=0.
38963	chrY	14209003	.	T	A	583.03	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.0
38964	chrY	14209004	.	C	T	582.87	PASS	AC=6;AF=0.086;AN=70;DP=331;FS=0.0
38965	chrY	14214013	.	C	T	1583.03	PASS	AC=6;AF=0.086;AN=70;DP=758;FS=0.0
38966	chrY	14217650	.	C	T	210.78	PASS	AC=2;AF=0.029;AN=70;DP=488;FS=0.0
38967	chrY	14219249	.	C	G	38.42	PASS	AC=2;AF=0.029;AN=70;DP=275;FS=0.0
38968	chrY	14222748	.	A	G	734.21	PASS	AC=6;AF=0.333;AN=18;DP=135;FS=0.0
38969	chrY	14223711	.	T	C	155.69	PASS	AC=2;AF=0.029;AN=70;DP=373;FS=0.0
38970	chrY	14225475	.	G	A	1281.37	PASS	AC=6;AF=0.086;AN=70;DP=468;FS=0.0
38971	chrY	14226692	.	A	T	7822.14	PASS	AC=60;AF=1.00;AN=60;DP=270;FS=0.0
38972	chrY	14228328	.	A	G	903.25	PASS	AC=6;AF=0.086;AN=70;DP=695;FS=0.0
38973	chrY	14230923	.	C	G	960.07	PASS	AC=6;AF=0.086;AN=70;DP=641;FS=0.0
38974	chrY	14231292	.	A	G	9129.97	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum
38975	chrY	14232066	.	G	A	1412.88	PASS	AC=26;AF=0.520;AN=50;DP=210;FS=0.
38976	chrY	14233197	.	C	A	47.01	PASS	AC=2;AF=0.032;AN=62;DP=267;FS=0.0
38977	chrY	14235054	.	T	A	202.82	PASS	AC=2;AF=0.029;AN=70;DP=613;FS=0.0
38978	chrY	14237068	.	T	A	233.23	PASS	AC=2;AF=0.029;AN=70;DP=585;FS=0.0
38979	chrY	14237670	.	T	C	6369.86	PASS	AC=54;AF=0.818;AN=66;BaseQRankSum
38980	chrY	14242558	.	T	C	5774.50	PASS	AC=52;AF=0.743;AN=70;DP=311;FS=0.
38981	chrY	14243251	.	C	A	8768.88	PASS	AC=42;AF=0.636;AN=66;DP=491;FS=0.
38982	chrY	14244937	.	C	G	707.26	PASS	AC=6;AF=0.086;AN=70;DP=388;FS=0.0
38983	chrY	14246663	.	T	C	1379.68	PASS	AC=6;AF=0.214;AN=28;DP=144;FS=0.0
38984	chrY	14247016	.	T	C	223.02	PASS	AC=2;AF=0.111;AN=18;DP=168;FS=0.0
38985	chrY	14247694	.	C	A	726.74	PASS	AC=6;AF=0.097;AN=62;DP=237;FS=0.0
38986	chrY	14250193	.	G	T	241.19	PASS	AC=2;AF=0.063;AN=32;DP=186;FS=0.0
38987	chrY	14252311	.	A	G	44.95	PASS	AC=2;AF=0.100;AN=20;DP=35;FS=0.00
38988	chrY	14252561	.	G	A	771.12	PASS	AC=16;AF=0.348;AN=46;DP=96;FS=0.0

38989	chrY	14253619	.	C	T	638.04	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
38990	chrY	14259933	.	T	G	1472.18	PASS	AC=6;AF=0.333;AN=18;DP=176;FS=0.0
38991	chrY	14262122	.	A	T	494.25	PASS	AC=2;AF=0.029;AN=70;DP=486;FS=0.0
38992	chrY	14263271	.	G	A	2720	PASS	AC=36;AF=0.667;AN=54;DP=230;FS=0.
38993	chrY	14266799	.	G	A	656.03	PASS	AC=6;AF=0.086;AN=70;DP=463;FS=0.0
38994	chrY	14269712	.	A	G	1311.28	PASS	AC=6;AF=0.086;AN=70;DP=482;FS=0.0
38995	chrY	14272044	.	C	T	166.52	PASS	AC=4;AF=0.069;AN=58;DP=231;FS=0.0
38996	chrY	14273103	.	G	T	8562.01	PASS	AC=58;AF=1.00;AN=58;DP=284;FS=0.0
38997	chrY	14274572	.	G	T	301.32	PASS	AC=2;AF=0.029;AN=70;DP=465;FS=0.0
38998	chrY	14275582	.	G	A	311.60	PASS	AC=2;AF=0.030;AN=66;DP=303;FS=0.0
38999	chrY	14277168	.	G	A	1244.53	PASS	AC=6;AF=0.086;AN=70;DP=361;FS=0.0
39000	chrY	14277239	.	G	A	1358.98	PASS	AC=6;AF=0.086;AN=70;DP=288;FS=0.0
39001	chrY	14280366	.	A	G	173.65	PASS	AC=2;AF=0.029;AN=70;DP=432;FS=0.0
39002	chrY	14281450	.	G	A	11855.50	PASS	AC=48;AF=0.727;AN=66;DP=5
39003	chrY	14283555	.	A	C	1187.74	PASS	AC=6;AF=0.086;AN=70;DP=503;FS=0.0
39004	chrY	14288615	.	T	C	1123.64	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
39005	chrY	14294504	.	G	T	3355.29	PASS	AC=44;AF=0.786;AN=56;BaseQRankSum
39006	chrY	14296496	.	G	T	1143.60	PASS	AC=6;AF=0.103;AN=58;DP=198;FS=0.0
39007	chrY	14297122	.	G	C	5775.62	PASS	AC=46;AF=0.719;AN=64;DP=238;FS=0.
39008	chrY	14297894	.	C	T	966.19	PASS	AC=6;AF=0.333;AN=18;DP=132;FS=0.0
39009	chrY	14300124	.	C	T	1102.50	PASS	AC=6;AF=0.125;AN=48;DP=171;FS=0.0
39010	chrY	14300457	.	A	G	6626.06	PASS	AC=52;AF=1.00;AN=52;DP=248;FS=0.0
39011	chrY	14300581	.	G	T	49.67	PASS	AC=2;AF=0.053;AN=38;DP=176;FS=0.0
39012	chrY	14302267	.	C	T	703.86	PASS	AC=2;AF=0.029;AN=70;DP=412;FS=0.0
39013	chrY	14304077	.	T	C	1128.21	PASS	AC=6;AF=0.333;AN=18;DP=161;FS=0.0
39014	chrY	14304719	.	C	A	1033.35	PASS	AC=6;AF=0.300;AN=20;DP=177;FS=0.0
39015	chrY	14317555	.	A	G	16316.91	PASS	AC=70;AF=1.00;AN=70;DP=55
39016	chrY	14319988	.	C	A	33.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39017	chrY	14324523	.	C	T	1181.76	PASS	AC=6;AF=0.176;AN=34;DP=173;FS=0.0
39018	chrY	14324714	.	T	C	14010.99	PASS	AC=58;AF=0.829;AN=70;DP=5
39019	chrY	14325752	.	T	C	30.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39020	chrY	14327533	.	C	T	1003.62	PASS	AC=6;AF=0.088;AN=68;DP=570;FS=0.0
39021	chrY	14327870	.	G	A	592.98	PASS	AC=6;AF=0.088;AN=68;DP=398;FS=0.0
39022	chrY	14330570	.	A	T	11575.92	PASS	AC=57;AF=0.814;AN=70;DP=4
39023	chrY	14331157	.	G	T	46.48	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
39024	chrY	14331158	.	C	T	45.65	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
39025	chrY	14331272	.	G	A	20633.90	PASS	AC=70;AF=1.00;AN=70;DP=68
39026	chrY	14331581	.	T	C	11080	PASS	AC=70;AF=1.00;AN=70;DP=365;FS=0.0
39027	chrY	14332189	.	A	G	1271.22	PASS	AC=6;AF=0.086;AN=70;DP=302;FS=0.0
39028	chrY	14333201	.	A	C	81.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39029	chrY	14333210	.	C	G	81.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39030	chrY	14334396	.	T	G	19993.07	PASS	AC=58;AF=0.829;AN=70;DP=7
39031	chrY	14339267	.	C	A	44.07	PASS	AC=2;AF=0.029;AN=70;DP=395;FS=0.0
39032	chrY	14340575	.	T	C	337.35	PASS	AC=2;AF=0.029;AN=70;DP=484;FS=0.0
39033	chrY	14347828	.	A	T	541.22	PASS	AC=2;AF=0.029;AN=70;DP=630;FS=0.0
39034	chrY	14351330	.	C	T	1420.85	PASS	AC=6;AF=0.086;AN=70;DP=507;FS=0.0
39035	chrY	14354843	.	A	C	1240.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39036	chrY	14356148	.	C	A	906.24	PASS	AC=6;AF=0.086;AN=70;DP=513;FS=0.0
39037	chrY	14357783	.	A	C	163.65	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39038	chrY	14357795	.	C	A	464.61	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39039	chrY	14357804	.	C	T	606.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39040	chrY	14357835	.	C	T	1178.19	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
39041	chrY	14357949	.	T	C	1671.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39042	chrY	14358013	.	G	A	514.01	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39043	chrY	14358074	.	A	G	262.38	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
39044	chrY	14358076	.	A	G	262.38	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
39045	chrY	14358221	.	C	A	81.76	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
39046	chrY	14358235	.	A	G	43.98	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
39047	chrY	14358336	.	T	A	37.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39048	chrY	14358445	.	G	A	185.93	PASS	AC=2;AF=0.029;AN=70;DP=433;FS=0.0
39049	chrY	14359235	.	G	A	8341.82	PASS	AC=50;AF=0.735;AN=68;DP=450;FS=0.
39050	chrY	14359804	.	T	C	51.26	PASS	AC=2;AF=0.071;AN=28;DP=125;FS=0.0
39051	chrY	14359805	.	C	A	51.24	PASS	AC=2;AF=0.071;AN=28;DP=125;FS=0.0
39052	chrY	14366723	.	T	C	12749.94	PASS	AC=68;AF=1.00;AN=68;DP=48
39053	chrY	14367181	.	A	G	8592.98	PASS	AC=56;AF=0.824;AN=68;BaseQRankSum=
39054	chrY	14367269	.	C	A	12707.94	PASS	AC=64;AF=1.00;AN=64;BaseQ
39055	chrY	14369471	.	G	A	2925.36	PASS	AC=12;AF=0.171;AN=70;DP=789;FS=0.
39056	chrY	14370165	.	G	A	1271.70	PASS	AC=6;AF=0.086;AN=70;DP=380;FS=0.0
39057	chrY	14373254	.	G	A	736.76	PASS	AC=6;AF=0.091;AN=66;DP=223;FS=0.0
39058	chrY	14379606	.	C	G,*	3237.03	PASS	AC=19,28;AF=0.297,0.438;AN=64;Bas
39059	chrY	14379614	.	G	C	45.20	PASS	AC=2;AF=0.029;AN=70;DP=274;FS=0.0
39060	chrY	14381087	.	A	T	262.70	PASS	AC=2;AF=0.029;AN=70;DP=361;FS=0.0
39061	chrY	14381223	.	G	A	315.93	PASS	AC=2;AF=0.029;AN=70;DP=411;FS=0.0
39062	chrY	14381806	.	A	C	747.90	PASS	AC=6;AF=0.200;AN=30;DP=179;FS=0.0
39063	chrY	14382516	.	C	T	4966.97	PASS	AC=44;AF=0.710;AN=62;DP=314;FS=0.
39064	chrY	14392996	.	G	C	5688.09	PASS	AC=42;AF=1.00;AN=42;DP=209;FS=0.0

39065	chrY	14394512	.	C	G	7811.05	PASS	AC=68;AF=1.00;AN=68;DP=263;FS=0.0
39066	chrY	14395779	.	C	T	2179.24	PASS	AC=36;AF=0.667;AN=54;DP=216;FS=0.
39067	chrY	14396223	.	C	G	201.15	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
39068	chrY	14398276	.	G	T	1043.11	PASS	AC=6;AF=0.091;AN=66;DP=202;FS=0.0
39069	chrY	14398980	.	A	G	12969.93	PASS	AC=64;AF=1.00;AN=64;DP=28
39070	chrY	14398990	.	G	A	14391.91	PASS	AC=64;AF=1.00;AN=64;DP=32
39071	chrY	14399014	.	T	G	14827.93	PASS	AC=64;AF=1.00;AN=64;DP=35
39072	chrY	14399057	.	T	G	18561.92	PASS	AC=66;AF=1.00;AN=66;DP=41
39073	chrY	14399061	.	A	G	19611.89	PASS	AC=66;AF=1.00;AN=66;DP=42
39074	chrY	14399063	.	A	G	19832.89	PASS	AC=66;AF=1.00;AN=66;DP=43
39075	chrY	14399074	.	A	G	20271.89	PASS	AC=66;AF=1.00;AN=66;DP=43
39076	chrY	14399077	.	G	A	20451.89	PASS	AC=66;AF=1.00;AN=66;DP=45
39077	chrY	14399105	.	G	A	24114.88	PASS	AC=66;AF=1.00;AN=66;DP=54
39078	chrY	14405675	.	G	A	2842.02	PASS	AC=30;AF=0.556;AN=54;BaseQRankSum
39079	chrY	14406952	.	G	A	1022.12	PASS	AC=6;AF=0.088;AN=68;DP=361;FS=0.0
39080	chrY	14407021	.	A	C	540.23	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39081	chrY	14408338	.	G	C	1097.39	PASS	AC=6;AF=0.088;AN=68;DP=576;FS=0.0
39082	chrY	14412831	.	G	A	287.15	PASS	AC=2;AF=0.037;AN=54;DP=223;FS=0.0
39083	chrY	14415575	.	A	T	2291.23	PASS	AC=24;AF=1.00;AN=24;BaseQRankSum=
39084	chrY	14419203	.	T	C	661.52	PASS	AC=6;AF=0.086;AN=70;DP=473;FS=0.0
39085	chrY	14419674	.	G	T	1348.50	PASS	AC=6;AF=0.086;AN=70;DP=426;FS=0.0
39086	chrY	14420387	.	G	C	1270.74	PASS	AC=6;AF=0.086;AN=70;DP=451;FS=0.0
39087	chrY	14423856	.	A	G	3963.14	PASS	AC=24;AF=1.00;AN=24;DP=167;FS=0.0
39088	chrY	14424848	.	C	T	1358.24	PASS	AC=6;AF=0.100;AN=60;DP=266;FS=0.0
39089	chrY	14427787	.	G	A	738.22	PASS	AC=4;AF=0.059;AN=68;DP=525;FS=0.0
39090	chrY	14427915	.	A	G	1382.92	PASS	AC=6;AF=0.086;AN=70;DP=387;FS=0.0
39091	chrY	14429837	.	G	A	375.44	PASS	AC=2;AF=0.029;AN=70;DP=379;FS=0.0
39092	chrY	14431735	.	A	G	253.81	PASS	AC=2;AF=0.029;AN=68;DP=512;FS=0.0
39093	chrY	14432928	.	A	G	12553.97	PASS	AC=70;AF=1.00;AN=70;BaseQ
39094	chrY	14434372	.	C	T	1192.41	PASS	AC=6;AF=0.091;AN=66;DP=569;FS=0.0
39095	chrY	14434802	.	G	A	112.08	PASS	AC=4;AF=0.286;AN=14;DP=28;FS=0.00
39096	chrY	14435782	.	A	G	2711.81	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
39097	chrY	14435790	.	T	C	3539.69	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
39098	chrY	14435792	.	G	C	3498.19	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
39099	chrY	14435818	.	T	C	7446.90	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
39100	chrY	14436052	.	G	A	166.46	my_snps_filter	AC=2;AF=0.029;AN=70;BaseQ
39101	chrY	14439238	.	C	T	10869.03	PASS	AC=50;AF=0.735;AN=68;DP=4
39102	chrY	14443152	.	T	G	64.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39103	chrY	14443158	.	C	T	67.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39104	chrY	14443181	.	T	C	61.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39105	chrY	14443185	.	G	A	61.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39106	chrY	14443194	.	A	G	58.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39107	chrY	14443195	.	G	A	61.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39108	chrY	14443205	.	G	C	54.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39109	chrY	14443210	.	A	C	61.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39110	chrY	14443230	.	A	G	111.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39111	chrY	14443246	.	A	T	182.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39112	chrY	14443260	.	T	A	184.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39113	chrY	14443261	.	G	A	184.71	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39114	chrY	14443328	.	G	C	51.96	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
39115	chrY	14443329	.	C	A	52.17	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
39116	chrY	14443332	.	C	T	54.94	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
39117	chrY	14443339	.	T	A	57.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39118	chrY	14443351	.	T	C	61.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39119	chrY	14443471	.	A	C	91.17	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
39120	chrY	14443474	.	G	A	91.50	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
39121	chrY	14443475	.	C	T	91.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39122	chrY	14443495	.	C	A	233.20	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39123	chrY	14443507	.	T	C	227.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39124	chrY	14443519	.	T	C	182.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39125	chrY	14443579	.	T	G	214.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39126	chrY	14443583	.	A	T	214.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39127	chrY	14443596	.	G	A	202.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39128	chrY	14443601	.	A	G	202.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39129	chrY	14443624	.	C	T	121.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39130	chrY	14443634	.	C	T	76.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39131	chrY	14443637	.	G	A	34.28	my_snps_filter	AC=1;AF=0.014;AN=70;BaseQ
39132	chrY	14443801	.	T	A	204.63	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
39133	chrY	14443806	.	G	A	204.61	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
39134	chrY	14443816	.	T	A	195.65	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
39135	chrY	14444695	.	T	C	30.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39136	chrY	14444701	.	G	T	30.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39137	chrY	14447150	.	A	T	89.69	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39138	chrY	14447155	.	A	T	41.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39139	chrY	14448315	.	C	A	5042.20	PASS	AC=36;AF=0.600;AN=60;DP=377;FS=0.
39140	chrY	14455205	.	T	C	1180.69	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.0

39141	chrY	14456011	.	C	A	44.17	PASS	AC=2;AF=0.030;AN=66;DP=239;FS=0.0
39142	chrY	14456034	.	C	G	1243.59	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
39143	chrY	14459210	.	T	C	83.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39144	chrY	14459211	.	G	A	82.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39145	chrY	14459216	.	T	C	35.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39146	chrY	14459219	.	G	A	35.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39147	chrY	14459546	.	T	C	50.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39148	chrY	14466858	.	C	T	31.65	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
39149	chrY	14466881	.	C	T	32.57	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
39150	chrY	14466917	.	T	C	204.14	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
39151	chrY	14466924	.	T	G	179.22	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
39152	chrY	14466948	.	T	C	66.64	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39153	chrY	14466973	.	C	T	60.99	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39154	chrY	14467152	.	G	A	1284.99	PASS	AC=6;AF=0.300;AN=20;DP=157;FS=0.0
39155	chrY	14467214	.	C	T	311.86	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39156	chrY	14467221	.	G	T	324.32	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39157	chrY	14467245	.	C	T	333.78	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39158	chrY	14467270	.	T	C	49.14	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39159	chrY	14468996	.	T	A	281.73	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39160	chrY	14469411	.	A	C	14638.96	PASS	AC=68;AF=1.00;AN=68;DP=47
39161	chrY	14474626	.	C	A	359.69	PASS	AC=2;AF=0.029;AN=70;DP=607;FS=0.0
39162	chrY	14475117	.	C	A	82.45	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
39163	chrY	14475135	.	A	G	116.50	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
39164	chrY	14475139	.	G	A	113.71	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
39165	chrY	14475143	.	T	C	136.67	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
39166	chrY	14475152	.	T	G	134.66	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
39167	chrY	14475171	.	T	A	141.50	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
39168	chrY	14475175	.	T	G	139.82	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
39169	chrY	14475183	.	G	T	147.65	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
39170	chrY	14475200	.	A	G	141.80	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
39171	chrY	14475210	.	A	G	144.68	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
39172	chrY	14475212	.	G	A	144.04	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
39173	chrY	14475215	.	T	C	126.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39174	chrY	14475220	.	C	T	126.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39175	chrY	14475227	.	G	A	123.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39176	chrY	14475235	.	G	A	61.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39177	chrY	14475527	.	T	A	37.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
39178	chrY	14475572	.	C	G	770.51	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
39179	chrY	14475576	.	G	A	769.77	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
39180	chrY	14475694	.	C	T	359.19	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39181	chrY	14475697	.	T	C	442.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39182	chrY	14475707	.	T	C	981	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39183	chrY	14475715	.	G	A	1387.99	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
39184	chrY	14475719	.	G	T	1310.86	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
39185	chrY	14475723	.	T	C	1395.46	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
39186	chrY	14475739	.	G	C	1839.42	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
39187	chrY	14475740	.	C	T	1838.55	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
39188	chrY	14475758	.	C	A	2534.69	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39189	chrY	14475815	.	G	A	12775.93	PASS	AC=23;AF=0.329;AN=70;BaseQ
39190	chrY	14475824	.	C	T	12539.91	PASS	AC=22;AF=0.324;AN=68;BaseQ
39191	chrY	14475831	.	A	G	11691.65	PASS	AC=21;AF=0.309;AN=68;BaseQ
39192	chrY	14475833	.	A	T	11398.58	PASS	AC=21;AF=0.300;AN=70;BaseQ
39193	chrY	14475840	.	T	G	10428.47	PASS	AC=22;AF=0.324;AN=68;BaseQ
39194	chrY	14475846	.	C	T	9772.23	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
39195	chrY	14475856	.	C	T	8687.08	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
39196	chrY	14475857	.	C	G	8594	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
39197	chrY	14475860	.	G	A	8106.87	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
39198	chrY	14475880	.	G	A	6215.98	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
39199	chrY	14475887	.	G	T	5824.11	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
39200	chrY	14475888	.	G	T	5788.18	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
39201	chrY	14475900	.	C	T	4685.91	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
39202	chrY	14475905	.	C	T	4495.45	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
39203	chrY	14475911	.	G	C	4024.18	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
39204	chrY	14475917	.	G	T	3361.86	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
39205	chrY	14475919	.	A	G	3029.39	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39206	chrY	14475923	.	G	A	3069.42	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
39207	chrY	14475928	.	T	C	2834.88	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39208	chrY	14475931	.	C	T	2530.04	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39209	chrY	14475933	.	A	G	2326.48	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39210	chrY	14475934	.	A	G	2236.38	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
39211	chrY	14475937	.	G	A	1996.72	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39212	chrY	14475940	.	T	G	1879.63	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39213	chrY	14475943	.	C	A	1754.29	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
39214	chrY	14475947	.	T	C	1492.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39215	chrY	14475949	.	A	T	1450.85	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39216	chrY	14475951	.	T	C	1498.98	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

39217	chrY	14475955	.	G	A	1456.92	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39218	chrY	14475967	.	T	C	807.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39219	chrY	14475996	.	C	T	789.34	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39220	chrY	14476000	.	C	T	834.01	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39221	chrY	14476004	.	T	C	873.02	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39222	chrY	14476005	.	T	C	899.29	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39223	chrY	14476010	.	C	T	858.22	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39224	chrY	14476021	.	C	G	1097.11	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39225	chrY	14476025	.	G	C	1086.46	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39226	chrY	14476026	.	A	G	1086.23	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39227	chrY	14476028	.	A	C	1089.25	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39228	chrY	14476039	.	A	G	997.05	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
39229	chrY	14476047	.	T	G	1012.59	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39230	chrY	14476049	.	G	T	1020.90	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39231	chrY	14476051	.	A	G	1027.53	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39232	chrY	14476056	.	C	T	1111.57	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
39233	chrY	14476057	.	T	C	1158.36	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
39234	chrY	14476062	.	C	T	1265.05	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39235	chrY	14476063	.	A	G	1221.90	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39236	chrY	14476069	.	C	T	1204.50	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
39237	chrY	14476070	.	A	G	1201.56	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
39238	chrY	14476073	.	C	T	1471.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39239	chrY	14476079	.	A	G	1265.21	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39240	chrY	14476090	.	G	A	926.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39241	chrY	14476112	.	A	G	835.58	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39242	chrY	14476125	.	T	G	173.85	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
39243	chrY	14479393	.	A	G	291.13	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
39244	chrY	14479396	.	A	G,*	8282.82	PASS	AC=3,38;AF=0.044,0.559;AN=68;Base
39245	chrY	14479401	.	C	T	280.64	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39246	chrY	14479407	.	T	C	275.44	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39247	chrY	14479415	.	C	T	287.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39248	chrY	14479420	.	A	G	281.43	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39249	chrY	14479421	.	G	T	284.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39250	chrY	14479427	.	A	T	275.38	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39251	chrY	14479433	.	G	A	272.21	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39252	chrY	14479440	.	T	C	264.87	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39253	chrY	14479458	.	A	G	226.43	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39254	chrY	14479462	.	A	T	226.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39255	chrY	14479465	.	G	A	223.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39256	chrY	14480060	.	A	C	31.95	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39257	chrY	14480064	.	G	A	32.08	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39258	chrY	14480567	.	A	C	109.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39259	chrY	14480572	.	C	T	109.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39260	chrY	14480573	.	A	G	109.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39261	chrY	14480612	.	T	C	173	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
39262	chrY	14480624	.	G	A	368.45	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39263	chrY	14480626	.	G	T	365.91	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
39264	chrY	14480627	.	C	G	368.91	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
39265	chrY	14480630	.	G	T	372.03	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
39266	chrY	14480639	.	T	C	392.91	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
39267	chrY	14480640	.	G	A	395.94	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
39268	chrY	14480652	.	C	T	289.83	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
39269	chrY	14480679	.	T	C	291.72	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39270	chrY	14480685	.	G	A	289.09	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39271	chrY	14480694	.	C	T	289.52	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39272	chrY	14480695	.	C	T	247.55	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39273	chrY	14480705	.	C	T	245.45	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
39274	chrY	14480716	.	A	G	363.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39275	chrY	14480724	.	C	T	217.97	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
39276	chrY	14480725	.	A	G	257.02	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
39277	chrY	14480729	.	T	C	257.38	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39278	chrY	14480730	.	G	A	257.12	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39279	chrY	14480736	.	T	C	305.30	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39280	chrY	14480737	.	G	A	308.15	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39281	chrY	14480742	.	T	G	183.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
39282	chrY	14480746	.	C	T	189.42	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39283	chrY	14480773	.	C	T	2931.42	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39284	chrY	14480774	.	A	G	2934.42	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39285	chrY	14480785	.	C	T	3423.31	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39286	chrY	14480786	.	C	T	3537.31	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39287	chrY	14480787	.	A	G	3660.53	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39288	chrY	14480793	.	C	T	3660.81	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
39289	chrY	14480798	.	C	A	3815.47	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
39290	chrY	14480807	.	C	T	4184.73	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39291	chrY	14480829	.	A	T	4216.07	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
39292	chrY	14480847	.	T	C	4133.98	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=

39293	chrY	14480848	.	G	A	4136.98	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39294	chrY	14480851	.	T	C	4138.27	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39295	chrY	14480852	.	G	C	4138.36	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39296	chrY	14480862	.	T	C	4086.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39297	chrY	14480863	.	G	A	4005.02	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39298	chrY	14480865	.	G	A	3956.95	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
39299	chrY	14481458	.	G	T	145.05	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
39300	chrY	14481463	.	C	T	493.52	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39301	chrY	14481464	.	A	G	493.52	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
39302	chrY	14481469	.	G	A	702.44	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39303	chrY	14481471	.	A	G	735.13	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
39304	chrY	14481474	.	T	C	841.44	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
39305	chrY	14481475	.	G	A	882.53	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
39306	chrY	14481478	.	G	A	880.76	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
39307	chrY	14481485	.	G	A	897.86	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39308	chrY	14481492	.	T	G	1157.05	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
39309	chrY	14481493	.	G	T	1155.62	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
39310	chrY	14481499	.	C	T	1207.16	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39311	chrY	14481500	.	A	G	1200.97	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39312	chrY	14481511	.	T	G	1086.89	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
39313	chrY	14481525	.	C	A	1311.62	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39314	chrY	14481546	.	T	C	1312.24	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=
39315	chrY	14481603	.	C	T	951.81	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
39316	chrY	14481605	.	C	T	947.13	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
39317	chrY	14481625	.	G	A	716.61	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
39318	chrY	14481643	.	A	G	427.55	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
39319	chrY	14481645	.	A	G	239.55	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39320	chrY	14483622	.	T	C	1364.10	PASS	AC=6;AF=0.086;AN=70;DP=687;FS=0.0
39321	chrY	14484895	.	A	C	5398.83	PASS	AC=14;AF=0.200;AN=70;DP=792;FS=0.0
39322	chrY	14487982	.	G	C	13316.71	PASS	AC=44;AF=0.647;AN=68;DP=6
39323	chrY	14489203	.	C	T	12702.57	PASS	AC=44;AF=0.647;AN=68;DP=5
39324	chrY	14490208	.	A	C	446.76	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
39325	chrY	14490237	.	C	T	108.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39326	chrY	14490286	.	A	G	35.68	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
39327	chrY	14490302	.	T	C	50.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
39328	chrY	14490393	.	A	G	1653.67	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
39329	chrY	14490984	.	G	A	69.76	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
39330	chrY	14490989	.	C	T	69.44	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
39331	chrY	14491301	.	C	A	964.35	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
39332	chrY	14491649	.	T	C	288.11	PASS	AC=4;AF=0.059;AN=68;DP=403;FS=0.0
39333	chrY	14495244	.	T	C	1636.36	PASS	AC=6;AF=0.130;AN=46;DP=162;FS=0.0
39334	chrY	14495251	.	G	A	423.08	PASS	AC=10;AF=0.357;AN=28;DP=174;FS=0.0
39335	chrY	14509327	.	C	T	1299.48	PASS	AC=6;AF=0.111;AN=54;DP=191;FS=0.0
39336	chrY	14510515	.	G	A	542.82	PASS	AC=6;AF=0.125;AN=48;DP=135;FS=0.0
39337	chrY	14512004	.	A	G	132.54	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
39338	chrY	14513436	.	G	C	196.60	PASS	AC=2;AF=0.031;AN=64;DP=264;FS=0.0
39339	chrY	14518023	.	C	G	1563.45	PASS	AC=28;AF=0.500;AN=56;DP=240;FS=0.0
39340	chrY	14520309	.	G	A	991.55	PASS	AC=6;AF=0.091;AN=66;DP=503;FS=0.0
39341	chrY	14521295	.	A	T	685.25	PASS	AC=6;AF=0.086;AN=70;DP=350;FS=0.0
39342	chrY	14522432	.	G	C	159.98	PASS	AC=2;AF=0.029;AN=68;DP=390;FS=0.0
39343	chrY	14523476	.	A	G	41.31	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
39344	chrY	14530516	.	T	C	44.57	PASS	AC=2;AF=0.042;AN=48;DP=192;FS=0.0
39345	chrY	14532743	.	T	C	78.27	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQ
39346	chrY	14533362	.	C	T	704.12	PASS	AC=6;AF=0.167;AN=36;DP=151;FS=0.0
39347	chrY	14541054	.	T	C	38.22	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
39348	chrY	14547781	.	C	A	1394.33	PASS	AC=6;AF=0.086;AN=70;DP=370;FS=0.0
39349	chrY	14551892	.	G	A	866.68	PASS	AC=6;AF=0.086;AN=70;DP=459;FS=0.0
39350	chrY	14557622	.	A	C	31.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39351	chrY	14557626	.	G	A	32.31	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39352	chrY	14558029	.	G	A	37.60	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
39353	chrY	14558032	.	T	G	34.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
39354	chrY	14558033	.	T	G	34.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
39355	chrY	14558045	.	C	A	31.36	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
39356	chrY	14558487	.	T	C	935.45	PASS	AC=14;AF=0.438;AN=32;DP=201;FS=0.0
39357	chrY	14560286	.	G	C	63.62	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
39358	chrY	14560297	.	G	T	149.37	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
39359	chrY	14560299	.	G	A	149.07	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
39360	chrY	14563004	.	G	A	17448.05	PASS	AC=46;AF=0.657;AN=70;DP=8
39361	chrY	14565245	.	G	A	535.67	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
39362	chrY	14565265	.	G	A	44.22	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39363	chrY	14565281	.	A	C	34.40	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39364	chrY	14565283	.	G	A	31.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39365	chrY	14565310	.	A	C	515.77	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
39366	chrY	14565470	.	C	T	545.41	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=
39367	chrY	14567291	.	G	C	31.46	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
39368	chrY	14567311	.	T	G	31.92	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=

39369	chrY	14567318	.	G	A	32.04	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39370	chrY	14567319	.	A	T	31.69	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39371	chrY	14571542	.	T	G	6016.63	PASS	AC=38;AF=0.559;AN=68;DP=397;FS=0.
39372	chrY	14575570	.	A	G	315.75	PASS	AC=2;AF=0.100;AN=20;DP=157;FS=0.0
39373	chrY	14576138	.	A	G	39.98	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
39374	chrY	14576185	.	G	A	780.02	PASS	AC=6;AF=0.088;AN=68;DP=536;FS=0.0
39375	chrY	14577044	.	T	C	8452.98	PASS	AC=46;AF=0.719;AN=64;DP=480;FS=0.
39376	chrY	14577177	.	A	G	16688.93	PASS	AC=70;AF=1.00;AN=70;DP=56
39377	chrY	14581011	.	C	G	1489.86	PASS	AC=6;AF=0.086;AN=70;DP=529;FS=0.0
39378	chrY	14581342	.	C	A	771.41	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.0
39379	chrY	14582105	.	C	A	1120.83	PASS	AC=6;AF=0.086;AN=70;DP=457;FS=0.0
39380	chrY	14584564	.	G	A	306.67	PASS	AC=2;AF=0.029;AN=68;DP=377;FS=0.0
39381	chrY	14585324	.	C	T	10082.01	PASS	AC=70;AF=1.00;AN=70;BaseQ
39382	chrY	14586671	.	G	C	285.18	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
39383	chrY	14587658	.	T	C	1912.24	PASS	AC=32;AF=0.640;AN=50;DP=243;FS=0.
39384	chrY	14593958	.	C	T	1262.99	PASS	AC=6;AF=0.086;AN=70;DP=509;FS=0.0
39385	chrY	14595328	.	T	C	8346.32	PASS	AC=36;AF=0.529;AN=68;DP=408;FS=0.
39386	chrY	14597055	.	A	G	694.26	PASS	AC=6;AF=0.088;AN=68;DP=532;FS=0.0
39387	chrY	14603298	.	C	T	11453.90	PASS	AC=48;AF=0.727;AN=66;DP=4
39388	chrY	14604456	.	C	A	1172.38	PASS	AC=6;AF=0.086;AN=70;DP=493;FS=0.0
39389	chrY	14604832	.	C	A	861.54	PASS	AC=6;AF=0.086;AN=70;DP=262;FS=0.0
39390	chrY	14605477	.	C	A	1227.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39391	chrY	14606044	.	G	A	1428.94	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
39392	chrY	14608189	.	A	G	58	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39393	chrY	14608192	.	C	T	151.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39394	chrY	14608201	.	A	G	154.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39395	chrY	14608608	.	T	C	75.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39396	chrY	14608609	.	G	A	75.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39397	chrY	14608617	.	G	A	72.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39398	chrY	14608753	.	C	T	1228.72	PASS	AC=6;AF=0.088;AN=68;DP=639;FS=0.0
39399	chrY	14609511	.	C	A	46.78	PASS	AC=2;AF=0.030;AN=66;DP=227;FS=0.0
39400	chrY	14609515	.	C	G	5329.23	PASS	AC=62;AF=1.00;AN=62;DP=188;FS=0.0
39401	chrY	14609947	.	G	A	547.79	PASS	AC=6;AF=0.088;AN=68;DP=448;FS=0.0
39402	chrY	14610167	.	T	A	456.11	PASS	AC=2;AF=0.029;AN=70;DP=638;FS=0.0
39403	chrY	14610658	.	C	T	2216.76	PASS	AC=28;AF=0.933;AN=30;BaseQRankSum=
39404	chrY	14611330	.	T	A	7673.11	PASS	AC=66;AF=1.00;AN=66;DP=279;FS=0.0
39405	chrY	14611417	.	C	G	1047.89	PASS	AC=6;AF=0.097;AN=62;DP=264;FS=0.0
39406	chrY	14612163	.	A	G	405.48	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39407	chrY	14612171	.	T	A	414.81	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39408	chrY	14612173	.	A	G	414.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39409	chrY	14612278	.	C	T	49.16	PASS	AC=2;AF=0.032;AN=62;DP=202;FS=0.0
39410	chrY	14615491	.	T	C	62.59	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39411	chrY	14615626	.	T	C	67.08	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
39412	chrY	14616315	.	C	T	11117.70	PASS	AC=46;AF=0.657;AN=70;DP=5
39413	chrY	14617648	.	C	T	941.40	PASS	AC=6;AF=0.167;AN=36;DP=159;FS=0.0
39414	chrY	14619528	.	G	T	7011.57	PASS	AC=44;AF=0.786;AN=56;BaseQRankSum=
39415	chrY	14619819	.	C	G	875.36	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
39416	chrY	14624254	.	C	T	578.63	PASS	AC=16;AF=0.889;AN=18;DP=40;FS=0.0
39417	chrY	14627760	.	A	T	719.88	PASS	AC=6;AF=0.094;AN=64;DP=199;FS=0.0
39418	chrY	14630334	.	T	C	13195.03	PASS	AC=68;AF=1.00;AN=68;DP=30
39419	chrY	14630342	.	T	C	12882.08	PASS	AC=68;AF=1.00;AN=68;DP=28
39420	chrY	14630357	.	T	C	11187.19	PASS	AC=66;AF=1.00;AN=66;DP=25
39421	chrY	14631227	.	C	T	3504.86	PASS	AC=18;AF=1.00;AN=18;DP=141;FS=0.0
39422	chrY	14634680	.	C	T	1553.63	PASS	AC=6;AF=0.273;AN=22;DP=179;FS=0.0
39423	chrY	14635223	.	C	T	1395.86	PASS	AC=6;AF=0.086;AN=70;DP=756;FS=0.0
39424	chrY	14636530	.	A	T	16274	PASS	AC=58;AF=0.829;AN=70;DP=617;FS=0.
39425	chrY	14639427	.	C	A	17144.89	PASS	AC=66;AF=1.00;AN=66;DP=58
39426	chrY	14641542	.	T	G	10357.41	PASS	AC=67;AF=0.985;AN=68;Base
39427	chrY	14644698	.	C	T	27202.88	PASS	AC=70;AF=1.00;AN=70;DP=86
39428	chrY	14644742	.	C	T	25727.89	PASS	AC=70;AF=1.00;AN=70;DP=83
39429	chrY	14645498	.	A	G	152.15	PASS	AC=2;AF=0.030;AN=66;DP=249;FS=0.0
39430	chrY	14646186	.	C	T	161.17	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
39431	chrY	14646187	.	A	G	161.84	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
39432	chrY	14646203	.	G	T	93.49	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
39433	chrY	14646209	.	A	T	71.06	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
39434	chrY	14646338	.	G	A	4059.06	PASS	AC=22;AF=1.00;AN=22;DP=185;FS=0.0
39435	chrY	14647154	.	G	A	1829.37	PASS	AC=6;AF=0.086;AN=70;DP=525;FS=0.0
39436	chrY	14649108	.	C	T	70.72	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39437	chrY	14649109	.	C	T	69.38	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39438	chrY	14649112	.	T	G	70.05	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39439	chrY	14649126	.	G	T	59.04	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
39440	chrY	14654127	.	T	C	1154.40	PASS	AC=6;AF=0.097;AN=62;DP=326;FS=0.0
39441	chrY	14655245	.	G	A	1384.16	PASS	AC=6;AF=0.088;AN=68;DP=538;FS=0.0
39442	chrY	14656737	.	C	T	993	PASS	AC=4;AF=0.061;AN=66;DP=440;FS=0.0
39443	chrY	14658617	.	C	A	779.47	PASS	AC=6;AF=0.088;AN=68;DP=520;FS=0.0
39444	chrY	14664512	.	C	T	563.64	PASS	AC=2;AF=0.029;AN=70;DP=466;FS=0.0

39445	chrY	14664692	.	A	G	1445.15	PASS	AC=6;AF=0.088;AN=68;DP=315;FS=0.0
39446	chrY	14672472	.	C	T	771.07	PASS	AC=6;AF=0.088;AN=68;DP=373;FS=0.0
39447	chrY	14673320	.	G	A	1146.97	PASS	AC=6;AF=0.088;AN=68;DP=447;FS=0.0
39448	chrY	14674410	.	A	G	207.10	PASS	AC=2;AF=0.033;AN=60;DP=207;FS=0.0
39449	chrY	14675085	.	G	A	624.26	PASS	AC=2;AF=0.029;AN=70;DP=707;FS=0.0
39450	chrY	14675492	.	C	T	16791.93	PASS	AC=52;AF=0.743;AN=70;DP=7
39451	chrY	14676647	.	T	C	629.03	PASS	AC=6;AF=0.088;AN=68;DP=368;FS=0.0
39452	chrY	14677851	.	C	A	1256.98	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.0
39453	chrY	14681686	.	G	A	43.04	PASS	AC=4;AF=0.182;AN=22;DP=174;FS=0.0
39454	chrY	14684272	.	G	C	1385.75	PASS	AC=6;AF=0.300;AN=20;DP=169;FS=0.0
39455	chrY	14687942	.	A	C	461.32	PASS	AC=12;AF=0.400;AN=30;DP=152;FS=0.0
39456	chrY	14688824	.	T	C	399.66	PASS	AC=4;AF=0.061;AN=66;DP=296;FS=0.0
39457	chrY	14692220	.	T	C	43.10	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39458	chrY	14692227	.	C	T	8064.06	PASS	AC=64;AF=1.00;AN=64;DP=277;FS=0.0
39459	chrY	14693087	.	A	G	727.28	PASS	AC=6;AF=0.086;AN=70;DP=486;FS=0.0
39460	chrY	14696972	.	C	T	273.08	PASS	AC=6;AF=0.091;AN=66;DP=193;FS=0.0
39461	chrY	14697012	.	A	T	169.77	PASS	AC=2;AF=0.030;AN=66;DP=275;FS=0.0
39462	chrY	14698928	.	T	C	14768.95	PASS	AC=70;AF=1.00;AN=70;DP=48
39463	chrY	14700337	.	A	G	168.44	PASS	AC=2;AF=0.029;AN=70;DP=377;FS=0.0
39464	chrY	14701020	.	T	C	2740.14	PASS	AC=26;AF=1.00;AN=26;BaseQRankSum=
39465	chrY	14709276	.	A	T	13732	PASS	AC=64;AF=1.00;AN=64;DP=308;FS=0.0
39466	chrY	14709277	.	C	G	13732	PASS	AC=64;AF=1.00;AN=64;DP=302;FS=0.0
39467	chrY	14709298	.	T	G	4182.26	PASS	AC=12;AF=0.171;AN=70;DP=262;FS=0.0
39468	chrY	14709951	.	A	G	1103.02	PASS	AC=6;AF=0.088;AN=68;DP=429;FS=0.0
39469	chrY	14710538	.	C	T	2693.25	PASS	AC=12;AF=0.176;AN=68;DP=329;FS=0.0
39470	chrY	14716696	.	A	G	9995.30	PASS	AC=58;AF=0.829;AN=70;DP=447;FS=0.0
39471	chrY	14721562	.	T	A	153.22	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39472	chrY	14721563	.	C	G	150.13	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39473	chrY	14727776	.	A	G	1250.01	PASS	AC=6;AF=0.086;AN=70;DP=315;FS=0.0
39474	chrY	14732984	.	C	T	78.97	PASS	AC=2;AF=0.029;AN=70;DP=351;FS=0.0
39475	chrY	14738110	.	T	C	451.48	PASS	AC=2;AF=0.091;AN=22;DP=134;FS=0.0
39476	chrY	14742373	.	C	T	8559.01	PASS	AC=52;AF=0.743;AN=70;DP=416;FS=0.0
39477	chrY	14747511	.	G	A	141.38	PASS	AC=4;AF=0.200;AN=20;DP=59;FS=0.00
39478	chrY	14750668	.	C	A	11471.93	PASS	AC=68;AF=1.00;AN=68;DP=39
39479	chrY	14753563	.	C	T	349.73	PASS	AC=6;AF=0.086;AN=70;DP=285;FS=0.0
39480	chrY	14753989	.	T	C	8770.99	PASS	AC=64;AF=1.00;AN=64;DP=312;FS=0.0
39481	chrY	14755880	.	C	T	9698.40	PASS	AC=50;AF=0.735;AN=68;DP=471;FS=0.0
39482	chrY	14757407	.	A	G	2598.75	PASS	AC=24;AF=0.364;AN=66;DP=348;FS=0.0
39483	chrY	14765698	.	G	T	31.10	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
39484	chrY	14768947	.	T	A	772.45	PASS	AC=6;AF=0.086;AN=70;DP=273;FS=0.0
39485	chrY	14770599	.	C	T	1142.26	PASS	AC=6;AF=0.086;AN=70;DP=292;FS=0.0
39486	chrY	14773984	.	G	C	668.40	PASS	AC=6;AF=0.086;AN=70;DP=377;FS=0.0
39487	chrY	14774854	.	T	C	7952.64	PASS	AC=42;AF=0.636;AN=66;DP=420;FS=0.0
39488	chrY	14776357	.	C	A	5492.88	PASS	AC=46;AF=0.657;AN=70;DP=351;FS=0.0
39489	chrY	14777842	.	C	T	13092.94	PASS	AC=70;AF=1.00;AN=70;DP=42
39490	chrY	14782259	.	A	G	34.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39491	chrY	14785154	.	C	G	1038.35	PASS	AC=6;AF=0.125;AN=48;DP=170;FS=0.0
39492	chrY	14786636	.	T	A	969.81	PASS	AC=6;AF=0.120;AN=50;DP=157;FS=0.0
39493	chrY	14792418	.	T	C	1219.95	PASS	AC=6;AF=0.088;AN=68;DP=444;FS=0.0
39494	chrY	14793427	.	C	T	1600.72	PASS	AC=6;AF=0.086;AN=70;DP=352;FS=0.0
39495	chrY	14794867	.	A	G	278.69	PASS	AC=2;AF=0.029;AN=68;DP=224;FS=0.0
39496	chrY	14796358	.	A	T	967.08	PASS	AC=6;AF=0.086;AN=70;DP=269;FS=0.0
39497	chrY	14804668	.	A	G	682.04	PASS	AC=6;AF=0.086;AN=70;DP=453;FS=0.0
39498	chrY	14805238	.	G	A	358.47	PASS	AC=2;AF=0.029;AN=70;DP=432;FS=0.0
39499	chrY	14811099	.	G	A	200.23	PASS	AC=4;AF=0.061;AN=66;DP=237;FS=0.0
39500	chrY	14814713	.	A	G	678.28	PASS	AC=6;AF=0.091;AN=66;DP=274;FS=0.0
39501	chrY	14814786	.	A	G	106.77	PASS	AC=2;AF=0.029;AN=70;DP=376;FS=0.0
39502	chrY	14818118	.	C	T	82.69	PASS	AC=2;AF=0.029;AN=68;DP=326;FS=0.0
39503	chrY	14825719	.	T	G	2359.82	PASS	AC=37;AF=0.685;AN=54;BaseQRankSum=
39504	chrY	14825720	.	T	G	371.12	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
39505	chrY	14832620	.	G	T	7749.27	PASS	AC=58;AF=0.829;AN=70;DP=381;FS=0.0
39506	chrY	14835086	.	G	A	644.26	PASS	AC=6;AF=0.086;AN=70;DP=183;FS=0.0
39507	chrY	14840884	.	G	A	1138.65	PASS	AC=6;AF=0.094;AN=64;DP=225;FS=0.0
39508	chrY	14841692	.	A	C	12467.57	PASS	AC=46;AF=0.657;AN=70;DP=6
39509	chrY	14842223	.	C	T	1075.94	PASS	AC=6;AF=0.086;AN=70;DP=465;FS=0.0
39510	chrY	14843790	.	C	G	623.73	PASS	AC=6;AF=0.088;AN=68;DP=352;FS=0.0
39511	chrY	14845988	.	T	C	1176.08	PASS	AC=6;AF=0.086;AN=70;DP=608;FS=0.0
39512	chrY	14848753	.	A	G	921.18	PASS	AC=6;AF=0.086;AN=70;DP=478;FS=0.0
39513	chrY	14849556	.	T	C	158.89	PASS	AC=2;AF=0.029;AN=70;DP=455;FS=0.0
39514	chrY	14851526	.	C	G	1139.89	PASS	AC=6;AF=0.086;AN=70;DP=400;FS=0.0
39515	chrY	14856013	.	G	A	1394.80	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.0
39516	chrY	14857294	.	G	A	6389.29	PASS	AC=44;AF=0.647;AN=68;DP=398;FS=0.0
39517	chrY	14862808	.	C	A	40.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39518	chrY	14868170	.	T	C	1708.99	PASS	AC=6;AF=0.086;AN=70;DP=630;FS=0.0
39519	chrY	14871976	.	T	C	11128.94	PASS	AC=70;AF=1.00;AN=70;DP=37
39520	chrY	14879538	.	G	C,*	313.97	PASS	AC=2,3;AF=0.033,0.050;AN=60;BaseQ

39521	chrY	14893637	.	C	T	597.97	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.0
39522	chrY	14903225	.	G	A	3655.74	PASS	AC=40;AF=0.625;AN=64;DP=289;FS=0.
39523	chrY	14910888	.	A	C	566.96	PASS	AC=6;AF=0.120;AN=50;DP=130;FS=0.0
39524	chrY	14916429	.	T	C	209.44	PASS	AC=2;AF=0.029;AN=68;DP=447;FS=0.0
39525	chrY	14917272	.	T	A	46.36	PASS	AC=2;AF=0.029;AN=70;DP=353;FS=0.0
39526	chrY	14917284	.	C	A	5956.96	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum
39527	chrY	14918099	.	T	A	987.67	PASS	AC=16;AF=0.471;AN=34;DP=180;FS=0.
39528	chrY	14920666	.	A	G	3003.62	PASS	AC=36;AF=0.545;AN=66;DP=269;FS=0.
39529	chrY	14924643	.	G	T	2530.33	PASS	AC=38;AF=0.679;AN=56;DP=234;FS=0.
39530	chrY	14928437	.	A	G	1359.12	PASS	AC=6;AF=0.088;AN=68;DP=371;FS=0.0
39531	chrY	14931124	.	G	A	41.34	PASS	AC=2;AF=0.037;AN=54;DP=201;FS=0.0
39532	chrY	14935686	.	T	C	1328.10	PASS	AC=6;AF=0.094;AN=64;DP=239;FS=0.0
39533	chrY	14936460	.	C	T	42.79	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
39534	chrY	14936470	.	A	T	603.68	PASS	AC=24;AF=0.571;AN=42;DP=190;FS=0.
39535	chrY	14937018	.	T	C	277.74	PASS	AC=2;AF=0.043;AN=46;DP=157;FS=0.0
39536	chrY	14937918	.	A	G	274.57	PASS	AC=2;AF=0.091;AN=22;DP=117;FS=0.0
39537	chrY	14940229	.	C	T	1470.97	PASS	AC=6;AF=0.091;AN=66;DP=318;FS=0.0
39538	chrY	14945358	.	T	C	396.56	PASS	AC=2;AF=0.029;AN=68;DP=399;FS=0.0
39539	chrY	14948532	.	A	T	1085.91	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.0
39540	chrY	14954047	.	C	T	8347.87	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum
39541	chrY	14954280	.	T	C	807.89	PASS	AC=6;AF=0.086;AN=70;DP=489;FS=0.0
39542	chrY	14958218	.	C	T	5444.21	PASS	AC=48;AF=1.00;AN=48;BaseQRankSum=
39543	chrY	14959554	.	G	C	173.18	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39544	chrY	14959560	.	A	C	54.98	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
39545	chrY	14960909	.	A	G	1230.74	PASS	AC=6;AF=0.300;AN=20;DP=169;FS=0.0
39546	chrY	14970408	.	C	T	1158.66	PASS	AC=6;AF=0.136;AN=44;DP=170;FS=0.0
39547	chrY	14970934	.	G	A	1247.60	PASS	AC=6;AF=0.086;AN=70;DP=433;FS=0.0
39548	chrY	14989721	.	G	C	10630.94	PASS	AC=64;AF=1.00;AN=64;DP=36
39549	chrY	14990947	.	A	C	995.46	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
39550	chrY	14991805	.	A	G	739.92	PASS	AC=6;AF=0.086;AN=70;DP=565;FS=0.0
39551	chrY	14991978	.	G	A	1408.24	PASS	AC=6;AF=0.086;AN=70;DP=405;FS=0.0
39552	chrY	14993358	.	G	A	2555.99	PASS	AC=20;AF=1.00;AN=20;DP=111;FS=0.0
39553	chrY	14996020	.	A	G	656.19	PASS	AC=6;AF=0.086;AN=70;DP=603;FS=0.0
39554	chrY	14996960	.	G	A	8280.95	PASS	AC=56;AF=0.824;AN=68;DP=374;FS=0.
39555	chrY	14997159	.	C	T	400.15	PASS	AC=2;AF=0.029;AN=68;DP=342;FS=0.0
39556	chrY	15000453	.	C	T	2352.81	PASS	AC=12;AF=0.333;AN=36;DP=158;FS=0.
39557	chrY	15007555	.	A	G	448.28	PASS	AC=6;AF=0.086;AN=70;DP=509;FS=0.0
39558	chrY	15021516	.	A	G	1053.26	PASS	AC=6;AF=0.086;AN=70;DP=455;FS=0.0
39559	chrY	15025050	.	T	A	32.39	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
39560	chrY	15027529	.	T	G	10338.98	PASS	AC=68;AF=1.00;AN=68;BaseQ
39561	chrY	15028232	.	G	T	122.55	PASS	AC=2;AF=0.029;AN=70;DP=359;FS=0.0
39562	chrY	15043282	.	A	T	413.34	PASS	AC=6;AF=0.088;AN=68;DP=279;FS=0.0
39563	chrY	15047295	.	T	A	64.32	PASS	AC=2;AF=1.00;AN=2;BaseQRankSum=-7
39564	chrY	15055505	.	C	G	528.03	PASS	AC=6;AF=0.086;AN=70;DP=434;FS=0.0
39565	chrY	15056634	.	A	G	952.95	PASS	AC=6;AF=0.097;AN=62;DP=244;FS=0.0
39566	chrY	15058878	.	G	A	6968.21	PASS	AC=56;AF=1.00;AN=56;DP=248;FS=0.0
39567	chrY	15060025	.	T	C	3629.45	PASS	AC=42;AF=0.700;AN=60;DP=238;FS=0.
39568	chrY	15062639	.	C	T	14273.84	PASS	AC=42;AF=0.636;AN=66;DP=6
39569	chrY	15073162	.	G	A	225.30	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
39570	chrY	15073172	.	T	C	229.57	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
39571	chrY	15073173	.	G	A	228.54	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
39572	chrY	15073181	.	C	G	220.06	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
39573	chrY	15073185	.	G	A	222.31	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
39574	chrY	15073222	.	G	A	70.60	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
39575	chrY	15074196	.	A	G	5977.33	PASS	AC=44;AF=0.647;AN=68;DP=376;FS=0.
39576	chrY	15086183	.	C	G	7385.07	PASS	AC=62;AF=1.00;AN=62;BaseQRankSum=
39577	chrY	15089515	.	T	A	30.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39578	chrY	15089516	.	G	A	30.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39579	chrY	15089603	.	A	G	554.72	PASS	AC=6;AF=0.088;AN=68;DP=326;FS=0.0
39580	chrY	15089795	.	C	T	355.72	PASS	AC=4;AF=0.059;AN=68;DP=227;FS=0.0
39581	chrY	15091089	.	C	T	1318.74	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.0
39582	chrY	15092687	.	G	A	783.26	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
39583	chrY	15094399	.	T	C	19944.95	PASS	AC=68;AF=1.00;AN=68;DP=45
39584	chrY	15094400	.	G	T	19944.95	PASS	AC=68;AF=1.00;AN=68;DP=45
39585	chrY	15095345	.	G	A	12385.27	PASS	AC=58;AF=0.829;AN=70;DP=5
39586	chrY	15096036	.	G	A	2532.18	PASS	AC=36;AF=0.667;AN=54;DP=261;FS=0.
39587	chrY	15097043	.	C	T	10287.78	PASS	AC=48;AF=0.727;AN=66;DP=4
39588	chrY	15107084	.	C	A	1075.37	PASS	AC=6;AF=0.091;AN=66;DP=226;FS=0.0
39589	chrY	15109081	.	T	C	300.39	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39590	chrY	15109082	.	C	T	300.36	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39591	chrY	15109086	.	G	A	254.99	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
39592	chrY	15109092	.	G	A	136.06	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
39593	chrY	15109099	.	C	T	122.43	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
39594	chrY	15109101	.	A	C	122.26	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39595	chrY	15109103	.	G	T	79.92	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39596	chrY	15109857	.	T	A	40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

39597	chrY	15109860	.	T	A	40.14	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39598	chrY	15109935	.	C	T	144.78	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
39599	chrY	15109936	.	A	G	144.78	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
39600	chrY	15109954	.	A	C	138.80	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
39601	chrY	15109958	.	T	C	145.29	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
39602	chrY	15109979	.	G	C	65.66	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39603	chrY	15109982	.	T	C	64.51	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
39604	chrY	15109989	.	T	C	51.17	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39605	chrY	15109996	.	T	C	46.86	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
39606	chrY	15109998	.	G	A	46.98	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39607	chrY	15110001	.	A	G	44.89	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39608	chrY	15110006	.	T	G	45.08	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39609	chrY	15110011	.	T	A	42.02	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
39610	chrY	15110014	.	A	G	37.84	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
39611	chrY	15110046	.	C	T	48.62	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39612	chrY	15110112	.	A	G	113.04	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39613	chrY	15110113	.	G	A	113.47	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39614	chrY	15110121	.	C	T	119.41	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39615	chrY	15110122	.	A	G	116.65	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
39616	chrY	15110129	.	A	C	118.83	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
39617	chrY	15110132	.	A	G	111.46	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
39618	chrY	15110195	.	T	A	39.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39619	chrY	15110204	.	T	C	39.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39620	chrY	15110364	.	G	T	9017.99	PASS	AC=68;AF=1.00;AN=68;DP=303;FS=0.0
39621	chrY	15110724	.	T	A	145.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39622	chrY	15110734	.	C	T	144.21	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39623	chrY	15110747	.	C	A	139.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39624	chrY	15110752	.	A	G	139.29	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39625	chrY	15110763	.	G	A	139.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39626	chrY	15110769	.	C	T	136.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39627	chrY	15110773	.	C	T	140.78	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39628	chrY	15110924	.	C	A	83.01	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
39629	chrY	15110936	.	A	G	95.38	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
39630	chrY	15110973	.	T	C	649.27	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
39631	chrY	15110974	.	G	A	645.84	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
39632	chrY	15110980	.	C	T	340.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39633	chrY	15110985	.	G	T	346.14	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39634	chrY	15110986	.	A	G	346.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39635	chrY	15110990	.	T	A	384.63	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
39636	chrY	15111001	.	T	G	217.62	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39637	chrY	15111002	.	G	A	218.07	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39638	chrY	15111004	.	C	T	213.91	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39639	chrY	15111006	.	G	A	216.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39640	chrY	15111038	.	A	G	70.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39641	chrY	15111040	.	T	C	111.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
39642	chrY	15111046	.	T	C	217.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39643	chrY	15111060	.	A	G	203.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39644	chrY	15111063	.	A	G	245.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39645	chrY	15111073	.	A	G	280.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39646	chrY	15111079	.	G	A	279.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39647	chrY	15111111	.	G	A	361.09	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
39648	chrY	15111129	.	G	T	363.07	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39649	chrY	15111130	.	G	A	362.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39650	chrY	15111132	.	T	C	354.28	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39651	chrY	15111140	.	C	T	362.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39652	chrY	15111142	.	C	G	362.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39653	chrY	15111148	.	G	A	362.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
39654	chrY	15111159	.	G	A	366.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
39655	chrY	15115789	.	C	T	332.61	PASS	AC=8;AF=0.286;AN=28;DP=158;FS=0.0
39656	chrY	15122573	.	A	G	798.61	PASS	AC=6;AF=0.086;AN=70;DP=349;FS=0.0
39657	chrY	15124218	.	C	A	42.22	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
39658	chrY	15124224	.	C	A	42.16	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
39659	chrY	15129242	.	G	A	1245.50	PASS	AC=6;AF=0.088;AN=68;DP=318;FS=0.0
39660	chrY	15129415	.	A	G	14142.96	PASS	AC=70;AF=1.00;AN=70;BaseQ
39661	chrY	15136357	.	C	T	18326.06	PASS	AC=46;AF=0.657;AN=70;DP=7
39662	chrY	15139183	.	A	T	1656.66	PASS	AC=6;AF=0.086;AN=70;DP=487;FS=0.0
39663	chrY	15143001	.	A	G	1055.38	PASS	AC=6;AF=0.273;AN=22;DP=183;FS=0.0
39664	chrY	15145751	.	C	A	1433.09	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
39665	chrY	15150938	.	G	A	1386.01	PASS	AC=6;AF=0.136;AN=44;DP=190;FS=0.0
39666	chrY	15152104	.	T	G	1158.66	PASS	AC=6;AF=0.088;AN=68;DP=287;FS=0.0
39667	chrY	15152317	.	A	G	9212.97	PASS	AC=66;AF=1.00;AN=66;DP=383;FS=0.0
39668	chrY	15153497	.	T	C	7788.30	PASS	AC=40;AF=0.571;AN=70;DP=466;FS=0.0
39669	chrY	15156398	.	G	A	432.34	PASS	AC=2;AF=0.033;AN=60;DP=228;FS=0.0
39670	chrY	15158950	.	C	G	397.17	PASS	AC=2;AF=0.036;AN=56;DP=185;FS=0.0
39671	chrY	15160065	.	G	A	287.21	PASS	AC=2;AF=0.031;AN=64;DP=178;FS=0.0
39672	chrY	15166573	.	G	A	329.40	PASS	AC=2;AF=0.029;AN=70;DP=439;FS=0.0

39673	chrY	15167624	.	G	A	1169.47	PASS	AC=6;AF=0.086;AN=70;DP=607;FS=0.0
39674	chrY	15169439	.	T	A	31866.88	PASS	AC=70;AF=1.00;AN=70;BaseQ
39675	chrY	15177941	.	A	G	43.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39676	chrY	15177949	.	T	A	44.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39677	chrY	15180091	.	A	C	3612.29	PASS	AC=42;AF=1.00;AN=42;DP=153;FS=0.0
39678	chrY	15203676	.	G	A	1420.75	PASS	AC=6;AF=0.086;AN=70;DP=543;FS=0.0
39679	chrY	15204708	.	G	T	17679.02	PASS	AC=68;AF=1.00;AN=68;DP=39
39680	chrY	15204710	.	C	A	17679.02	PASS	AC=68;AF=1.00;AN=68;DP=39
39681	chrY	15213879	.	G	A	51.63	my_snp_filter	AC=2;AF=0.091;AN=22;DP=17
39682	chrY	15213883	.	A	G	51.63	my_snp_filter	AC=2;AF=0.091;AN=22;DP=17
39683	chrY	15215449	.	A	C	1084.23	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
39684	chrY	15223675	.	C	T	536.26	PASS	AC=2;AF=0.029;AN=68;DP=408;FS=0.0
39685	chrY	15226253	.	C	T	15836.85	PASS	AC=52;AF=0.743;AN=70;DP=6
39686	chrY	15226285	.	C	T	728.23	PASS	AC=2;AF=0.029;AN=70;DP=594;FS=0.0
39687	chrY	15226287	.	C	G	728.23	PASS	AC=2;AF=0.029;AN=70;DP=585;FS=0.0
39688	chrY	15226313	.	C	T	1516.71	PASS	AC=6;AF=0.088;AN=68;DP=394;FS=0.0
39689	chrY	15226328	.	T	C	5798.81	PASS	AC=44;AF=0.710;AN=62;DP=310;FS=0.0
39690	chrY	15226331	.	A	G	5520.29	PASS	AC=44;AF=0.710;AN=62;DP=291;FS=0.0
39691	chrY	15226335	.	C	T	4740.11	PASS	AC=42;AF=0.700;AN=60;DP=276;FS=0.0
39692	chrY	15226338	.	G	A	4251.46	PASS	AC=38;AF=0.679;AN=56;DP=260;FS=0.0
39693	chrY	15226343	.	A	T	3080.77	PASS	AC=34;AF=0.654;AN=52;DP=235;FS=0.0
39694	chrY	15226371	.	T	A	118.50	PASS	AC=2;AF=0.100;AN=20;DP=166;FS=0.0
39695	chrY	15226377	.	G	A	86.38	PASS	AC=2;AF=0.100;AN=20;DP=167;FS=0.0
39696	chrY	15226548	.	A	G	1090.80	my_snp_filter	AC=6;AF=0.250;AN=24;DP=19
39697	chrY	15234440	.	G	C	1151	PASS	AC=6;AF=0.086;AN=70;DP=478;FS=0.0
39698	chrY	15234830	.	T	A	10130.63	PASS	AC=58;AF=0.829;AN=70;DP=4
39699	chrY	15237234	.	G	A	2084.22	PASS	AC=12;AF=0.171;AN=70;DP=313;FS=0.0
39700	chrY	15238129	.	C	T	34.14	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39701	chrY	15238269	.	C	G	670.82	PASS	AC=4;AF=0.057;AN=70;DP=389;FS=0.0
39702	chrY	15243427	.	C	A	36.26	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39703	chrY	15243909	.	G	A	244.91	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39704	chrY	15243915	.	T	C	242.79	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39705	chrY	15243917	.	T	C	241.44	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
39706	chrY	15243928	.	G	A	310.19	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
39707	chrY	15243955	.	G	T	262.51	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
39708	chrY	15243957	.	C	G	224	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
39709	chrY	15243962	.	G	A	217.80	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
39710	chrY	15244250	.	T	C	318.15	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
39711	chrY	15244254	.	T	A	320.38	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
39712	chrY	15244975	.	T	A	110.31	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39713	chrY	15244991	.	C	A	88.30	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39714	chrY	15245000	.	C	T	91.36	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39715	chrY	15245024	.	C	T	49.70	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39716	chrY	15245039	.	G	A	51.88	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39717	chrY	15246469	.	T	G	86.80	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
39718	chrY	15246537	.	G	C	74.69	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39719	chrY	15246542	.	G	A	77.18	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39720	chrY	15246563	.	G	T	1804.18	PASS	AC=6;AF=0.333;AN=18;DP=194;FS=0.0
39721	chrY	15246711	.	A	T	33.90	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
39722	chrY	15247785	.	C	G	131.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39723	chrY	15247788	.	A	G	131.30	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39724	chrY	15247886	.	G	T	1263.63	PASS	AC=6;AF=0.273;AN=22;DP=156;FS=0.0
39725	chrY	15250230	.	G	A	2073.95	PASS	AC=30;AF=0.500;AN=60;DP=211;FS=0.0
39726	chrY	15251706	.	A	T	2396.01	PASS	AC=40;AF=0.625;AN=64;DP=283;FS=0.0
39727	chrY	15253322	.	T	C	1060.30	PASS	AC=6;AF=0.086;AN=70;DP=256;FS=0.0
39728	chrY	15257003	.	C	G	4514.93	PASS	AC=46;AF=0.719;AN=64;DP=292;FS=0.0
39729	chrY	15268404	.	C	T	4637.91	PASS	AC=46;AF=0.657;AN=70;DP=319;FS=0.0
39730	chrY	15271994	.	C	G	593.22	PASS	AC=12;AF=0.182;AN=66;DP=290;FS=0.0
39731	chrY	15275200	.	G	C	14129.91	PASS	AC=68;AF=1.00;AN=68;DP=46
39732	chrY	15276772	.	T	C	372.62	PASS	AC=6;AF=0.120;AN=50;DP=128;FS=0.0
39733	chrY	15279589	.	C	T	1144.66	PASS	AC=6;AF=0.086;AN=70;DP=435;FS=0.0
39734	chrY	15281135	.	T	G	3140.13	PASS	AC=42;AF=0.778;AN=54;DP=232;FS=0.0
39735	chrY	15281995	.	G	A	1438.57	PASS	AC=6;AF=0.088;AN=68;DP=443;FS=0.0
39736	chrY	15284719	.	T	C	265.87	PASS	AC=2;AF=0.029;AN=70;DP=339;FS=0.0
39737	chrY	15285288	.	G	A	4305.21	PASS	AC=52;AF=0.743;AN=70;DP=317;FS=0.0
39738	chrY	15287141	.	G	A	1241.02	PASS	AC=6;AF=0.086;AN=70;DP=628;FS=0.0
39739	chrY	15289013	.	C	T	957.56	PASS	AC=6;AF=0.273;AN=22;DP=132;FS=0.0
39740	chrY	15292303	.	A	T	1357.18	PASS	AC=6;AF=0.333;AN=18;DP=172;FS=0.0
39741	chrY	15296345	.	G	A	1012.20	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
39742	chrY	15297992	.	C	A	209.48	PASS	AC=4;AF=0.074;AN=54;DP=198;FS=0.0
39743	chrY	15309390	.	C	T	862.35	PASS	AC=6;AF=0.088;AN=68;DP=302;FS=0.0
39744	chrY	15315059	.	T	A	1433.74	PASS	AC=6;AF=0.086;AN=70;DP=457;FS=0.0
39745	chrY	15318221	.	T	C	208.73	PASS	AC=2;AF=0.030;AN=66;DP=259;FS=0.0
39746	chrY	15318251	.	A	T	1132.14	PASS	AC=6;AF=0.091;AN=66;DP=330;FS=0.0
39747	chrY	15323154	.	G	A	19164.80	PASS	AC=58;AF=0.829;AN=70;DP=7
39748	chrY	15323457	.	T	A	113.49	PASS	AC=2;AF=0.067;AN=30;DP=112;FS=0.0

39749	chrY	15324565	.	T	A	298.96	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
39750	chrY	15327052	.	G	T	4285.10	PASS	AC=36;AF=0.545;AN=66;DP=341;FS=0.
39751	chrY	15331925	.	A	G	782.60	PASS	AC=6;AF=0.086;AN=70;DP=450;FS=0.0
39752	chrY	15338905	.	G	A	1251.56	PASS	AC=6;AF=0.115;AN=52;DP=183;FS=0.0
39753	chrY	15339328	.	C	T	1116.43	PASS	AC=6;AF=0.086;AN=70;DP=572;FS=0.0
39754	chrY	15343571	.	T	C	2187.30	PASS	AC=6;AF=0.086;AN=70;DP=436;FS=0.0
39755	chrY	15343575	.	T	G	2188.16	PASS	AC=6;AF=0.086;AN=70;DP=431;FS=0.0
39756	chrY	15344716	.	A	C	8735.26	PASS	AC=48;AF=0.727;AN=66;DP=472;FS=0.
39757	chrY	15350628	.	A	G	37.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
39758	chrY	15352951	.	G	A	208.17	PASS	AC=2;AF=0.034;AN=58;DP=179;FS=0.
39759	chrY	15354555	.	C	T	36.81	PASS	AC=2;AF=0.030;AN=66;DP=228;FS=0.0
39760	chrY	15357228	.	C	T	1594.45	PASS	AC=6;AF=0.088;AN=68;DP=400;FS=0.0
39761	chrY	15359961	.	A	G	133.78	PASS	AC=2;AF=0.033;AN=60;DP=196;FS=0.0
39762	chrY	15362750	.	T	C	670.59	PASS	AC=6;AF=0.094;AN=64;DP=318;FS=0.0
39763	chrY	15363974	.	G	C	36.87	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
39764	chrY	15363975	.	G	A	36.17	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
39765	chrY	15367191	.	G	A	3480.59	PASS	AC=36;AF=0.563;AN=64;DP=319;FS=0.
39766	chrY	15370523	.	T	G	1400.42	PASS	AC=6;AF=0.086;AN=70;DP=554;FS=0.0
39767	chrY	15374340	.	C	A	709.38	PASS	AC=4;AF=0.057;AN=70;DP=669;FS=0.0
39768	chrY	15375926	.	G	A	1646.51	PASS	AC=6;AF=0.088;AN=68;DP=545;FS=0.0
39769	chrY	15377120	.	G	A	4014.86	PASS	AC=18;AF=1.00;AN=18;DP=155;FS=0.0
39770	chrY	15382221	.	A	C	1565.11	PASS	AC=6;AF=0.086;AN=70;DP=566;FS=0.0
39771	chrY	15385733	.	T	C	113.09	PASS	AC=6;AF=0.300;AN=20;DP=52;FS=0.00
39772	chrY	15393774	.	T	A	1395.27	PASS	AC=6;AF=0.088;AN=68;DP=318;FS=0.0
39773	chrY	15406063	.	A	G	337.32	PASS	AC=2;AF=0.030;AN=66;DP=311;FS=0.0
39774	chrY	15407795	.	C	G	328.52	PASS	AC=2;AF=0.029;AN=70;DP=463;FS=0.0
39775	chrY	15409274	.	T	G	710.80	PASS	AC=6;AF=0.086;AN=70;DP=239;FS=0.0
39776	chrY	15411564	.	C	T	977.47	PASS	AC=6;AF=0.086;AN=70;DP=410;FS=0.0
39777	chrY	15412847	.	C	T	889.59	PASS	AC=6;AF=0.150;AN=40;DP=121;FS=0.0
39778	chrY	15415115	.	A	G	721.42	PASS	AC=6;AF=0.086;AN=70;DP=386;FS=0.0
39779	chrY	15421164	.	A	G	2452.19	PASS	AC=32;AF=0.516;AN=62;DP=248;FS=0.
39780	chrY	15421242	.	G	A	2473.10	PASS	AC=12;AF=0.273;AN=44;DP=167;FS=0.
39781	chrY	15423590	.	C	T	4030.03	PASS	AC=50;AF=0.806;AN=62;DP=248;FS=0.
39782	chrY	15424808	.	T	C	1245.19	PASS	AC=6;AF=0.086;AN=70;DP=600;FS=0.0
39783	chrY	15428714	.	C	T	338.88	PASS	AC=4;AF=0.059;AN=68;DP=338;FS=0.0
39784	chrY	15428732	.	A	C	512.29	PASS	AC=6;AF=0.086;AN=70;DP=388;FS=0.0
39785	chrY	15431772	.	T	A	738.31	PASS	AC=20;AF=0.476;AN=42;DP=197;FS=0.
39786	chrY	15437152	.	C	T	1113.14	PASS	AC=6;AF=0.088;AN=68;DP=248;FS=0.0
39787	chrY	15437333	.	A	C	2003.93	PASS	AC=38;AF=0.679;AN=56;DP=213;FS=0.
39788	chrY	15437564	.	C	T	3869.87	PASS	AC=42;AF=0.700;AN=60;DP=277;FS=0.0
39789	chrY	15439006	.	T	C	48.88	PASS	AC=2;AF=0.038;AN=52;DP=149;FS=0.0
39790	chrY	15439411	.	T	C	128.39	PASS	AC=4;AF=0.065;AN=62;DP=192;FS=0.0
39791	chrY	15439570	.	G	A	1045.38	PASS	AC=6;AF=0.086;AN=70;DP=276;FS=0.0
39792	chrY	15440730	.	C	A	997.11	PASS	AC=6;AF=0.111;AN=54;DP=182;FS=0.0
39793	chrY	15442442	.	G	C	944.79	PASS	AC=6;AF=0.094;AN=64;DP=364;FS=0.0
39794	chrY	15443639	.	T	C	805.89	PASS	AC=6;AF=0.088;AN=68;DP=383;FS=0.0
39795	chrY	15460145	.	T	A	35.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39796	chrY	15460146	.	A	T	35.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39797	chrY	15463763	.	C	G	346.90	PASS	AC=2;AF=0.029;AN=68;DP=525;FS=0.0
39798	chrY	15467639	.	A	G	481.09	PASS	AC=2;AF=0.032;AN=62;DP=238;FS=0.0
39799	chrY	15467664	.	A	T	38.17	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
39800	chrY	15467674	.	T	A	38.29	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
39801	chrY	15468042	.	T	C	683.07	PASS	AC=6;AF=0.086;AN=70;DP=376;FS=0.0
39802	chrY	15469724	.	G	A	1115.19	PASS	AC=6;AF=0.088;AN=68;DP=279;FS=0.0
39803	chrY	15471925	.	T	C	1183.55	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
39804	chrY	15472087	.	T	A	69.52	PASS	AC=2;AF=0.059;AN=34;DP=158;FS=0.0
39805	chrY	15472863	.	T	C	4543.64	PASS	AC=50;AF=0.806;AN=62;DP=237;FS=0.
39806	chrY	15474955	.	T	G	87.68	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
39807	chrY	15474963	.	T	G	93.72	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
39808	chrY	15474964	.	A	G	93.19	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
39809	chrY	15474968	.	G	C	57.28	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
39810	chrY	15474975	.	T	G	60.18	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
39811	chrY	15476276	.	T	A	1300.28	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
39812	chrY	15476390	.	G	A	1338.88	PASS	AC=6;AF=0.130;AN=46;DP=172;FS=0.0
39813	chrY	15480547	.	G	C	12586.93	PASS	AC=70;AF=1.00;AN=70;DP=35
39814	chrY	15480934	.	C	T	1331.86	PASS	AC=6;AF=0.120;AN=50;DP=186;FS=0.0
39815	chrY	15485869	.	C	T	1071.48	PASS	AC=6;AF=0.086;AN=70;DP=657;FS=0.0
39816	chrY	15489960	.	T	G	235.65	PASS	AC=4;AF=0.061;AN=66;DP=245;FS=0.0
39817	chrY	15489983	.	A	G	46.74	PASS	AC=2;AF=0.030;AN=66;DP=266;FS=0.0
39818	chrY	15494078	.	C	T	895.60	PASS	AC=6;AF=0.088;AN=68;DP=300;FS=0.0
39819	chrY	15496762	.	C	G	847.93	PASS	AC=6;AF=0.111;AN=54;DP=180;FS=0.0
39820	chrY	15497285	.	C	G	10463.96	PASS	AC=70;AF=1.00;AN=70;DP=35
39821	chrY	15498774	.	G	A	131.70	PASS	AC=2;AF=0.050;AN=40;DP=120;FS=0.0
39822	chrY	15510064	.	G	T	6927.31	PASS	AC=64;AF=1.00;AN=64;DP=247;FS=0.0
39823	chrY	15510285	.	T	C	6656.33	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum
39824	chrY	15513035	.	G	A	460.13	PASS	AC=2;AF=0.029;AN=70;DP=578;FS=0.0

39825	chrY	15517954	.	A	G	573.60	PASS	AC=6;AF=0.091;AN=66;DP=298;FS=0.0
39826	chrY	15526751	.	C	T	3119.09	PASS	AC=46;AF=0.793;AN=58;DP=192;FS=0.
39827	chrY	15528756	.	C	A	1674.89	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.0
39828	chrY	15529876	.	C	T	6703.37	PASS	AC=48;AF=0.800;AN=60;DP=317;FS=0.
39829	chrY	15529918	.	T	G	2790.59	PASS	AC=36;AF=0.750;AN=48;DP=215;FS=0.
39830	chrY	15537906	.	C	A	331.43	PASS	AC=2;AF=0.029;AN=68;DP=370;FS=0.0
39831	chrY	15540359	.	C	G	1007.93	PASS	AC=6;AF=0.086;AN=70;DP=523;FS=0.0
39832	chrY	15543875	.	C	T	1285	PASS	AC=6;AF=0.094;AN=64;DP=230;FS=0.0
39833	chrY	15548923	.	C	A	1570.01	PASS	AC=6;AF=0.086;AN=70;DP=422;FS=0.0
39834	chrY	15548924	.	C	A	1570.01	PASS	AC=6;AF=0.086;AN=70;DP=421;FS=0.0
39835	chrY	15553123	.	T	C	3224.61	PASS	AC=44;AF=0.786;AN=56;DP=207;FS=0.
39836	chrY	15558495	.	T	C	733.86	PASS	AC=7;AF=0.389;AN=18;BaseQRankSum=
39837	chrY	15560659	.	C	T	199.81	PASS	AC=4;AF=0.067;AN=60;DP=213;FS=0.0
39838	chrY	15568288	.	G	T	324.68	PASS	AC=2;AF=0.029;AN=70;DP=415;FS=0.0
39839	chrY	15573247	.	T	C	232.30	PASS	AC=2;AF=0.029;AN=68;DP=313;FS=0.0
39840	chrY	15576411	.	A	G	41.82	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
39841	chrY	15576683	.	A	G	31.15	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39842	chrY	15581983	.	G	A	6693.27	PASS	AC=56;AF=1.00;AN=56;DP=236;FS=0.0
39843	chrY	15582706	.	T	G	44.46	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
39844	chrY	15582709	.	A	G	43.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39845	chrY	15590342	.	T	G	12627.93	PASS	AC=68;AF=1.00;AN=68;BaseQ
39846	chrY	15590674	.	T	A	1214.27	PASS	AC=6;AF=0.088;AN=68;DP=392;FS=0.0
39847	chrY	15591537	.	G	C	778.07	PASS	AC=6;AF=0.086;AN=70;DP=503;FS=0.0
39848	chrY	15592990	.	A	G	1136.58	PASS	AC=6;AF=0.086;AN=70;DP=521;FS=0.0
39849	chrY	15594523	.	G	A	11664.95	PASS	AC=70;AF=1.00;AN=70;DP=39
39850	chrY	15595096	.	C	T	16344.39	PASS	AC=50;AF=0.735;AN=68;DP=6
39851	chrY	15605449	.	G	T	4873.66	PASS	AC=34;AF=0.531;AN=64;DP=329;FS=0.
39852	chrY	15614964	.	C	G	543.04	PASS	AC=6;AF=0.086;AN=70;DP=538;FS=0.0
39853	chrY	15617822	.	G	A	1757.92	PASS	AC=6;AF=0.125;AN=48;DP=196;FS=0.0
39854	chrY	15622389	.	C	A	1117.19	PASS	AC=6;AF=0.333;AN=18;DP=148;FS=0.0
39855	chrY	15628269	.	A	G	1325.90	PASS	AC=6;AF=0.273;AN=22;DP=160;FS=0.0
39856	chrY	15630182	.	G	T	154.33	PASS	AC=2;AF=0.030;AN=66;DP=274;FS=0.0
39857	chrY	15635100	.	T	C	654.39	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.0
39858	chrY	15638056	.	G	A	473.02	PASS	AC=2;AF=0.111;AN=18;DP=157;FS=0.0
39859	chrY	15639038	.	A	G	1183.47	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
39860	chrY	15639890	.	T	G	57.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39861	chrY	15639895	.	A	G	56.48	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39862	chrY	15644675	.	A	G	296.77	PASS	AC=2;AF=0.100;AN=20;DP=152;FS=0.0
39863	chrY	15645670	.	C	T	1146.43	PASS	AC=6;AF=0.273;AN=22;DP=162;FS=0.0
39864	chrY	15648415	.	T	C	16513.96	PASS	AC=70;AF=1.00;AN=70;DP=55
39865	chrY	15651438	.	T	A	10386.60	PASS	AC=50;AF=0.806;AN=62;DP=4
39866	chrY	15658296	.	C	G	117.86	PASS	AC=4;AF=0.059;AN=68;DP=219;FS=0.0
39867	chrY	15658426	.	T	G	1222.18	PASS	AC=6;AF=0.086;AN=70;DP=478;FS=0.0
39868	chrY	15658737	.	G	A	84.44	PASS	AC=2;AF=0.030;AN=66;DP=202;FS=0.0
39869	chrY	15662633	.	A	T	10985.79	PASS	AC=58;AF=0.829;AN=70;DP=4
39870	chrY	15667208	.	C	G	13808.97	PASS	AC=68;AF=1.00;AN=68;DP=47
39871	chrY	15667924	.	G	T	310.93	PASS	AC=4;AF=0.059;AN=68;DP=375;FS=0.0
39872	chrY	15669776	.	G	A	858.41	PASS	AC=6;AF=0.111;AN=54;DP=181;FS=0.0
39873	chrY	15674221	.	T	C	304.30	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
39874	chrY	15674281	.	G	C	45.07	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39875	chrY	15675282	.	T	C	2194.64	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum
39876	chrY	15675869	.	C	T	223.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
39877	chrY	15675915	.	T	C	62.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39878	chrY	15675921	.	T	A	47.24	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39879	chrY	15675942	.	G	A	225.79	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39880	chrY	15676067	.	C	G	91.37	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39881	chrY	15676177	.	C	T	61.84	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
39882	chrY	15681751	.	G	T	1067.31	PASS	AC=6;AF=0.086;AN=70;DP=415;FS=0.0
39883	chrY	15684681	.	A	T	4069.14	PASS	AC=24;AF=1.00;AN=24;BaseQRankSum=
39884	chrY	15705693	.	A	G	30.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39885	chrY	15705696	.	A	G	30.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39886	chrY	15706446	.	G	C	1066.89	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39887	chrY	15708460	.	T	C	1039.51	PASS	AC=6;AF=0.086;AN=70;DP=514;FS=0.0
39888	chrY	15712801	.	T	A	19417.33	PASS	AC=58;AF=0.829;AN=70;DP=7
39889	chrY	15723335	.	C	T	6467.44	PASS	AC=40;AF=0.571;AN=70;DP=411;FS=0.
39890	chrY	15724326	.	A	G	463.74	PASS	AC=6;AF=0.091;AN=66;DP=325;FS=0.0
39891	chrY	15725229	.	A	G	5378.22	PASS	AC=38;AF=0.576;AN=66;BaseQRankSum
39892	chrY	15726664	.	T	C	1888.28	PASS	AC=14;AF=0.200;AN=70;DP=428;FS=0.
39893	chrY	15728053	.	G	T	284.29	PASS	AC=2;AF=0.029;AN=68;DP=367;FS=0.0
39894	chrY	15729830	.	A	G	30.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39895	chrY	15730907	.	A	C	1398.18	PASS	AC=6;AF=0.333;AN=18;DP=169;FS=0.0
39896	chrY	15732786	.	C	T	18518.93	PASS	AC=70;AF=1.00;AN=70;BaseQ
39897	chrY	15737083	.	A	G	257.89	PASS	AC=2;AF=0.029;AN=68;DP=371;FS=0.0
39898	chrY	15738682	.	C	T	532.33	PASS	AC=2;AF=0.030;AN=66;DP=258;FS=0.0
39899	chrY	15740440	.	G	A	15908.92	PASS	AC=66;AF=1.00;AN=66;DP=52
39900	chrY	15746910	.	T	C	1323.87	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=

39901	chrY	15747004	.	T	A	33.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39902	chrY	15747008	.	C	T	33.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39903	chrY	15752636	.	C	T,*	3038.82	PASS	AC=22,1;AF=0.500,0.023;AN=44;DP=3
39904	chrY	15753197	.	T	C	119.60	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
39905	chrY	15754313	.	C	A	1369.29	PASS	AC=6;AF=0.086;AN=70;DP=627;FS=0.0
39906	chrY	15760243	.	G	A	1182.48	PASS	AC=6;AF=0.120;AN=50;DP=176;FS=0.0
39907	chrY	15760765	.	G	C	204.37	PASS	AC=2;AF=0.029;AN=68;DP=348;FS=0.0
39908	chrY	15761126	.	A	G	918.75	PASS	AC=6;AF=0.300;AN=20;DP=163;FS=0.0
39909	chrY	15762839	.	A	G	15653.02	PASS	AC=50;AF=0.735;AN=68;DP=7
39910	chrY	15763177	.	A	G	3853.20	PASS	AC=44;AF=0.710;AN=62;DP=290;FS=0
39911	chrY	15769171	.	C	T	3082.39	PASS	AC=38;AF=0.679;AN=56;DP=240;FS=0
39912	chrY	15772751	.	G	A	10222.13	PASS	AC=46;AF=0.657;AN=70;DP=5
39913	chrY	15775202	.	T	C	1245.16	PASS	AC=6;AF=0.086;AN=70;DP=501;FS=0.0
39914	chrY	15775388	.	G	A	1081.02	PASS	AC=6;AF=0.091;AN=66;DP=490;FS=0.0
39915	chrY	15777458	.	G	C	1199.81	PASS	AC=6;AF=0.088;AN=68;DP=546;FS=0.0
39916	chrY	15777595	.	T	C	1265.97	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39917	chrY	15780501	.	C	A	755.02	PASS	AC=4;AF=0.067;AN=60;DP=241;FS=0.0
39918	chrY	15784387	.	C	T	749.02	PASS	AC=6;AF=0.086;AN=70;DP=480;FS=0.0
39919	chrY	15785245	.	C	T	1269.98	PASS	AC=6;AF=0.088;AN=68;DP=366;FS=0.0
39920	chrY	15790691	.	C	T	7640.51	PASS	AC=54;AF=0.818;AN=66;DP=368;FS=0
39921	chrY	15793131	.	A	T	1136.72	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
39922	chrY	15793639	.	A	T	1180.99	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
39923	chrY	15801167	.	A	T	503.54	PASS	AC=6;AF=0.100;AN=60;DP=204;FS=0.0
39924	chrY	15803415	.	A	G	2783.97	PASS	AC=20;AF=1.00;AN=20;DP=154;FS=0.0
39925	chrY	15804514	.	G	A	1120.18	PASS	AC=6;AF=0.333;AN=18;DP=167;FS=0.0
39926	chrY	15806605	.	C	T	1016.75	PASS	AC=6;AF=0.300;AN=20;DP=173;FS=0.0
39927	chrY	15807605	.	C	T	1138.18	PASS	AC=6;AF=0.333;AN=18;DP=168;FS=0.0
39928	chrY	15808901	.	G	T	461.48	PASS	AC=2;AF=0.091;AN=22;DP=163;FS=0.0
39929	chrY	15812579	.	C	A	2982.16	PASS	AC=40;AF=0.625;AN=64;DP=242;FS=0
39930	chrY	15813129	.	C	G	12387.71	PASS	AC=52;AF=0.743;AN=70;DP=5
39931	chrY	15818409	.	G	A	7243.16	PASS	AC=62;AF=1.00;AN=62;DP=265;FS=0
39932	chrY	15822628	.	A	G	130.89	PASS	AC=2;AF=0.030;AN=66;DP=210;FS=0
39933	chrY	15837480	.	G	T	1656.18	PASS	AC=6;AF=0.333;AN=18;DP=185;FS=0
39934	chrY	15838043	.	T	C	980.18	PASS	AC=6;AF=0.333;AN=18;DP=181;FS=0
39935	chrY	15838880	.	T	G	82.81	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39936	chrY	15838884	.	C	A	39.62	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39937	chrY	15838919	.	C	T	120.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39938	chrY	15838927	.	C	A	114.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39939	chrY	15838947	.	A	T	126.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39940	chrY	15838952	.	A	T	129.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39941	chrY	15839012	.	T	G	51.33	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
39942	chrY	15839029	.	C	T	136.07	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39943	chrY	15839030	.	C	G	135.64	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39944	chrY	15839045	.	A	T	89.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39945	chrY	15839047	.	A	G	90.72	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39946	chrY	15839053	.	G	A	92.99	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39947	chrY	15839133	.	C	A	117.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39948	chrY	15839134	.	C	G	117.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39949	chrY	15839175	.	A	C	75.09	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
39950	chrY	15842187	.	T	A	3989.58	PASS	AC=42;AF=0.636;AN=66;DP=276;FS=0
39951	chrY	15842844	.	A	G	13133.74	PASS	AC=58;AF=0.829;AN=70;DP=5
39952	chrY	15844914	.	G	A	1178.68	PASS	AC=6;AF=0.088;AN=68;DP=567;FS=0
39953	chrY	15845248	.	A	G	10814.26	PASS	AC=40;AF=0.571;AN=70;DP=5
39954	chrY	15845531	.	G	A	982.22	PASS	AC=6;AF=0.086;AN=70;DP=351;FS=0
39955	chrY	15856736	.	C	T	1258.20	PASS	AC=6;AF=0.333;AN=18;DP=160;FS=0
39956	chrY	15858945	.	T	A	277.70	PASS	AC=2;AF=0.029;AN=70;DP=599;FS=0
39957	chrY	15865984	.	G	T	53.72	PASS	AC=2;AF=0.143;AN=14;DP=48;FS=0
39958	chrY	15866469	.	A	C	469.37	PASS	AC=2;AF=0.029;AN=70;DP=557;FS=0
39959	chrY	15867412	.	C	A	4445.58	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum=
39960	chrY	15869282	.	C	G	153.13	PASS	AC=2;AF=0.045;AN=44;DP=166;FS=0
39961	chrY	15874245	.	T	C	1588.02	PASS	AC=22;AF=1.00;AN=22;DP=113;FS=0
39962	chrY	15887869	.	G	A	1241.09	PASS	AC=6;AF=0.250;AN=24;DP=160;FS=0
39963	chrY	15887989	.	C	A	3414.86	PASS	AC=18;AF=1.00;AN=18;DP=136;FS=0
39964	chrY	15890427	.	C	T	1177.75	PASS	AC=6;AF=0.300;AN=20;DP=175;FS=0
39965	chrY	15890966	.	C	G	174.40	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39966	chrY	15890985	.	A	G	175.56	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39967	chrY	15890998	.	G	T	231.79	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
39968	chrY	15891004	.	T	A	170.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39969	chrY	15891023	.	G	A	169.60	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39970	chrY	15891024	.	C	A	169.84	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
39971	chrY	15891033	.	A	G	181.42	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39972	chrY	15891035	.	T	G	181.46	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
39973	chrY	15891061	.	C	T	37.18	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
39974	chrY	15893835	.	T	G	1194.18	PASS	AC=6;AF=0.333;AN=18;DP=175;FS=0
39975	chrY	15896404	.	A	G	6370.16	PASS	AC=50;AF=0.735;AN=68;DP=411;FS=0
39976	chrY	15896549	.	G	T	1455.53	PASS	AC=6;AF=0.086;AN=70;DP=531;FS=0

39977	chrY	15904605	.	T	G	1011.94	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
39978	chrY	15907452	.	G	A	331.75	PASS	AC=6;AF=0.086;AN=70;DP=421;FS=0.0
39979	chrY	15909160	.	C	T	2364.22	PASS	AC=34;AF=0.654;AN=52;DP=224;FS=0.
39980	chrY	15910164	.	G	T	300.66	PASS	AC=2;AF=0.029;AN=70;DP=377;FS=0.0
39981	chrY	15913078	.	T	C	1478.49	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
39982	chrY	15915747	.	G	A	312.62	PASS	AC=2;AF=0.029;AN=70;DP=421;FS=0.0
39983	chrY	15918592	.	C	T	11566.92	PASS	AC=70;AF=1.00;AN=70;DP=38
39984	chrY	15918671	.	A	C	86.35	PASS	AC=2;AF=0.029;AN=70;DP=253;FS=0.0
39985	chrY	15920775	.	T	C	136.15	PASS	AC=4;AF=0.080;AN=50;DP=196;FS=0.0
39986	chrY	15922321	.	A	G	36.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
39987	chrY	15922825	.	C	T	415.69	PASS	AC=2;AF=0.029;AN=70;DP=580;FS=0.0
39988	chrY	15923259	.	A	G	346.32	PASS	AC=2;AF=0.029;AN=70;DP=601;FS=0.0
39989	chrY	15924956	.	A	G	1188.29	PASS	AC=6;AF=0.111;AN=54;DP=176;FS=0.0
39990	chrY	15931671	.	T	G	797.24	PASS	AC=6;AF=0.333;AN=18;DP=131;FS=0.0
39991	chrY	15937165	.	T	A	43.41	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
39992	chrY	15937171	.	A	T	43.39	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
39993	chrY	15937199	.	A	G	410.20	PASS	AC=8;AF=0.267;AN=30;DP=177;FS=0.0
39994	chrY	15944541	.	T	G	618.86	PASS	AC=2;AF=0.034;AN=58;DP=218;FS=0.0
39995	chrY	15944600	.	T	A	1100.20	PASS	AC=6;AF=0.086;AN=70;DP=318;FS=0.0
39996	chrY	15944828	.	C	G	16115.89	PASS	AC=70;AF=1.00;AN=70;DP=52
39997	chrY	15945037	.	G	T	324.24	PASS	AC=4;AF=0.057;AN=70;DP=559;FS=0.0
39998	chrY	15946507	.	G	A	492.65	PASS	AC=2;AF=0.030;AN=66;DP=355;FS=0.0
39999	chrY	15948265	.	A	G	795.21	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.0
40000	chrY	15951636	.	T	G	1092.63	PASS	AC=6;AF=0.088;AN=68;DP=306;FS=0.0
40001	chrY	15952016	.	A	G	628.81	PASS	AC=6;AF=0.120;AN=50;DP=175;FS=0.0
40002	chrY	15953654	.	C	A	1034.36	PASS	AC=6;AF=0.086;AN=70;DP=559;FS=0.0
40003	chrY	15955432	.	T	A	9380.50	PASS	AC=58;AF=0.829;AN=70;DP=404;FS=0.
40004	chrY	15955962	.	T	C	933.04	PASS	AC=6;AF=0.086;AN=70;DP=514;FS=0.0
40005	chrY	15956560	.	A	G	39.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40006	chrY	15956561	.	G	A	39.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40007	chrY	15956588	.	G	A	46.53	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
40008	chrY	15957773	.	G	A	3619.29	PASS	AC=32;AF=1.00;AN=32;DP=153;FS=0.0
40009	chrY	15958079	.	G	A	947.47	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
40010	chrY	15963071	.	A	C	1171.96	PASS	AC=6;AF=0.300;AN=20;DP=175;FS=0.0
40011	chrY	15963975	.	C	T	36.06	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
40012	chrY	15963980	.	G	T	31.40	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
40013	chrY	15964912	.	G	T	130.21	PASS	AC=4;AF=0.080;AN=50;DP=170;FS=0.0
40014	chrY	15967518	.	G	T	101.55	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
40015	chrY	15974459	.	C	A	85.15	PASS	AC=2;AF=0.036;AN=56;DP=194;FS=0.0
40016	chrY	15980484	.	A	C	755.68	PASS	AC=6;AF=0.086;AN=70;DP=350;FS=0.0
40017	chrY	15982345	.	T	C	40.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40018	chrY	15982364	.	A	G	47.26	PASS	AC=2;AF=0.030;AN=66;DP=259;FS=0.0
40019	chrY	15985397	.	C	T	1262.60	PASS	AC=6;AF=0.091;AN=66;DP=334;FS=0.0
40020	chrY	15988343	.	T	C	315.54	PASS	AC=2;AF=0.029;AN=70;DP=499;FS=0.0
40021	chrY	15990714	.	T	G	1004.97	PASS	AC=6;AF=0.086;AN=70;DP=482;FS=0.0
40022	chrY	15995622	.	G	T	1105.59	PASS	AC=6;AF=0.086;AN=70;DP=540;FS=0.0
40023	chrY	16000245	.	A	G	42.33	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40024	chrY	16000247	.	A	T	42.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40025	chrY	16000894	.	C	G	246.50	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
40026	chrY	16000904	.	G	A	238.41	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
40027	chrY	16000930	.	C	G	462.02	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
40028	chrY	16000935	.	T	C	499.50	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
40029	chrY	16000948	.	C	T	616.31	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
40030	chrY	16000952	.	G	A	619.78	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
40031	chrY	16000957	.	T	C	616.87	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
40032	chrY	16001035	.	T	C	348.41	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
40033	chrY	16001058	.	C	T	297.68	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
40034	chrY	16001068	.	A	G	161.38	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
40035	chrY	16001075	.	T	C	164.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40036	chrY	16001084	.	C	T	128.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40037	chrY	16001085	.	A	G	128.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40038	chrY	16001885	.	G	T	240.69	PASS	AC=2;AF=0.029;AN=70;DP=509;FS=0.0
40039	chrY	16005138	.	C	A	10564.98	PASS	AC=68;AF=1.00;AN=68;DP=37
40040	chrY	16005526	.	G	A	1795.60	PASS	AC=6;AF=0.086;AN=70;DP=572;FS=0.0
40041	chrY	16010265	.	C	A	149.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
40042	chrY	16013006	.	T	C	43.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
40043	chrY	16015369	.	A	T	562.51	PASS	AC=6;AF=0.086;AN=70;DP=321;FS=0.0
40044	chrY	16017035	.	T	C	34.21	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40045	chrY	16017045	.	C	T	34.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40046	chrY	16020053	.	A	T	1128	PASS	AC=6;AF=0.086;AN=70;DP=610;FS=0.0
40047	chrY	16021009	.	T	C	6245.44	PASS	AC=40;AF=0.571;AN=70;DP=399;FS=0.
40048	chrY	16021660	.	T	C	1279.85	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
40049	chrY	16024284	.	C	G	1038.41	PASS	AC=6;AF=0.300;AN=20;DP=141;FS=0.0
40050	chrY	16025124	.	G	T	82.36	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40051	chrY	16025125	.	G	A	81.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40052	chrY	16025467	.	A	C	1319.41	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=

40053	chrY	16025701	.	T	G	1044.18	PASS	AC=6;AF=0.333;AN=18;DP=187;FS=0.0
40054	chrY	16026241	.	C	G	1234.18	PASS	AC=6;AF=0.333;AN=18;DP=166;FS=0.0
40055	chrY	16026844	.	G	A	1309.39	PASS	AC=6;AF=0.273;AN=22;DP=173;FS=0.0
40056	chrY	16027838	.	A	T	2456.59	PASS	AC=12;AF=0.182;AN=66;DP=409;FS=0.0
40057	chrY	16027923	.	T	C	76.73	PASS	AC=2;AF=0.029;AN=68;DP=403;FS=0.0
40058	chrY	16028996	.	A	G	98.70	PASS	AC=4;AF=0.067;AN=60;DP=185;FS=0.0
40059	chrY	16029529	.	A	G	391.90	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
40060	chrY	16029626	.	T	C	2159.96	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
40061	chrY	16029783	.	G	T	40.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40062	chrY	16030708	.	C	A	30.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40063	chrY	16030718	.	T	C	30.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40064	chrY	16033352	.	G	C	1245.65	PASS	AC=6;AF=0.086;AN=70;DP=385;FS=0.0
40065	chrY	16035637	.	A	C	7708.34	PASS	AC=52;AF=0.743;AN=70;DP=417;FS=0.0
40066	chrY	16040014	.	T	G	3859.56	PASS	AC=46;AF=0.719;AN=64;DP=263;FS=0.0
40067	chrY	16043971	.	T	C	1462.59	PASS	AC=6;AF=0.094;AN=64;DP=204;FS=0.0
40068	chrY	16044635	.	T	C	406.48	PASS	AC=2;AF=0.029;AN=70;DP=618;FS=0.0
40069	chrY	16050903	.	T	C	1134.28	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
40070	chrY	16052813	.	C	A	840.94	PASS	AC=6;AF=0.086;AN=70;DP=397;FS=0.0
40071	chrY	16056469	.	A	C	40.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40072	chrY	16065993	.	G	A	1457.63	PASS	AC=6;AF=0.273;AN=22;DP=183;FS=0.0
40073	chrY	16067564	.	C	T	4485.86	PASS	AC=18;AF=1.00;AN=18;DP=176;FS=0.0
40074	chrY	16068990	.	G	T	1001.25	PASS	AC=6;AF=0.333;AN=18;DP=162;FS=0.0
40075	chrY	16070765	.	C	T	34.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40076	chrY	16070836	.	G	T	1371.92	PASS	AC=6;AF=0.086;AN=70;DP=570;FS=0.0
40077	chrY	16072806	.	T	C	1473.65	PASS	AC=6;AF=0.086;AN=70;DP=559;FS=0.0
40078	chrY	16080618	.	G	C	474.75	PASS	AC=2;AF=0.100;AN=20;DP=187;FS=0.0
40079	chrY	16083704	.	G	C	45.42	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
40080	chrY	16083764	.	C	T	50.51	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
40081	chrY	16083816	.	T	A	1292.86	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
40082	chrY	16084515	.	G	C	904.75	PASS	AC=6;AF=0.088;AN=68;DP=321;FS=0.0
40083	chrY	16087982	.	A	G	919.84	PASS	AC=6;AF=0.115;AN=52;DP=153;FS=0.0
40084	chrY	16094323	.	A	G	1226	PASS	AC=6;AF=0.088;AN=68;DP=321;FS=0.0
40085	chrY	16094472	.	A	G	276.39	PASS	AC=2;AF=0.029;AN=68;DP=270;FS=0.0
40086	chrY	16095596	.	A	G	1192.89	PASS	AC=24;AF=0.545;AN=44;DP=83;FS=0.0
40087	chrY	16095827	.	C	T	178.38	PASS	AC=6;AF=0.086;AN=70;DP=322;FS=0.0
40088	chrY	16096206	.	G	A	109.67	PASS	AC=2;AF=0.059;AN=34;DP=46;FS=0.00
40089	chrY	16131630	.	G	T	13289.52	PASS	AC=46;AF=0.657;AN=70;DP=6
40090	chrY	16172191	.	C	G	8854.54	PASS	AC=58;AF=0.829;AN=70;BaseQRankSum=
40091	chrY	16174352	.	C	A	508.37	PASS	AC=4;AF=0.057;AN=70;DP=370;FS=0.0
40092	chrY	16177608	.	T	C	748.12	PASS	AC=6;AF=0.086;AN=70;DP=482;FS=0.0
40093	chrY	16178042	.	T	A	3800.21	PASS	AC=52;AF=0.788;AN=66;DP=257;FS=0.0
40094	chrY	16180081	.	T	A	1333.66	PASS	AC=6;AF=0.086;AN=70;DP=549;FS=0.0
40095	chrY	16183412	.	A	C	18378.89	PASS	AC=70;AF=1.00;AN=70;DP=60
40096	chrY	16188674	.	T	C	1145.19	PASS	AC=6;AF=0.094;AN=64;DP=249;FS=0.0
40097	chrY	16191528	.	G	A	858.03	PASS	AC=6;AF=0.086;AN=70;DP=608;FS=0.0
40098	chrY	16198725	.	G	A	1146.53	PASS	AC=6;AF=0.097;AN=62;DP=240;FS=0.0
40099	chrY	16202980	.	C	G	1933.64	PASS	AC=12;AF=0.182;AN=66;DP=287;FS=0.0
40100	chrY	16203382	.	A	G	1016.92	PASS	AC=6;AF=0.086;AN=70;DP=545;FS=0.0
40101	chrY	16203597	.	G	A	1352.60	PASS	AC=6;AF=0.088;AN=68;DP=535;FS=0.0
40102	chrY	16208785	.	C	T	10851.45	PASS	AC=48;AF=0.727;AN=66;BaseQ
40103	chrY	16210156	.	T	A	1649.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40104	chrY	16214874	.	T	C	3250.86	PASS	AC=18;AF=1.00;AN=18;DP=181;FS=0.0
40105	chrY	16215250	.	A	C	380.75	PASS	AC=2;AF=0.100;AN=20;DP=185;FS=0.0
40106	chrY	16215552	.	T	C	48.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40107	chrY	16215585	.	G	A	64.94	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
40108	chrY	16215620	.	C	A	184.09	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
40109	chrY	16215623	.	G	T	51.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40110	chrY	16218955	.	G	T	1155.95	PASS	AC=6;AF=0.094;AN=64;DP=230;FS=0.0
40111	chrY	16220923	.	C	T	299.81	PASS	AC=2;AF=0.029;AN=70;DP=276;FS=0.0
40112	chrY	16222561	.	T	C	16924.92	PASS	AC=68;AF=1.00;AN=68;DP=63
40113	chrY	16224402	.	C	T	331.83	PASS	AC=2;AF=0.033;AN=60;DP=174;FS=0.0
40114	chrY	16228445	.	T	A	33.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40115	chrY	16228446	.	G	A	34.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40116	chrY	16236831	.	G	T	3780.57	PASS	AC=26;AF=0.371;AN=70;DP=370;FS=0.0
40117	chrY	16240819	.	G	A	1255.16	PASS	AC=6;AF=0.086;AN=70;DP=554;FS=0.0
40118	chrY	16242268	.	C	T	30.76	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40119	chrY	16242316	.	T	A	10426.69	PASS	AC=58;AF=0.829;AN=70;DP=4
40120	chrY	16242541	.	T	C	48.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40121	chrY	16242575	.	G	A	3739.41	PASS	AC=42;AF=0.700;AN=60;DP=256;FS=0.0
40122	chrY	16243337	.	G	A	7458.27	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
40123	chrY	16244894	.	C	G	374.39	PASS	AC=2;AF=0.029;AN=70;DP=420;FS=0.0
40124	chrY	16247355	.	C	G	545.81	PASS	AC=2;AF=0.029;AN=70;DP=344;FS=0.0
40125	chrY	16247952	.	T	C	944.22	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
40126	chrY	16247957	.	T	C	1057.39	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
40127	chrY	16247962	.	T	C	88.92	PASS	AC=1;AF=0.015;AN=68;DP=385;FS=0.0
40128	chrY	16250280	.	T	C	903.67	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.0

40129	chrY	16251407	.	C	T	793.67	PASS	AC=6;AF=0.086;AN=70;DP=479;FS=0.0
40130	chrY	16255953	.	C	T	6590.15	PASS	AC=52;AF=0.743;AN=70;DP=359;FS=0.
40131	chrY	16258469	.	G	T	9127.18	PASS	AC=50;AF=0.735;AN=68;DP=435;FS=0.
40132	chrY	16259161	.	C	G	131.15	PASS	AC=2;AF=0.059;AN=34;DP=198;FS=0.0
40133	chrY	16262459	.	G	T	443.35	PASS	AC=6;AF=0.088;AN=68;DP=321;FS=0.0
40134	chrY	16263188	.	C	T	3705.25	PASS	AC=38;AF=1.00;AN=38;DP=140;FS=0.0
40135	chrY	16263192	.	T	C	215.69	PASS	AC=4;AF=0.080;AN=50;DP=121;FS=0.0
40136	chrY	16270583	.	A	G	11992.39	PASS	AC=56;AF=0.824;AN=68;DP=5
40137	chrY	16271259	.	C	T	120.56	PASS	AC=2;AF=0.029;AN=70;DP=456;FS=0.0
40138	chrY	16273059	.	T	C	707.53	PASS	AC=6;AF=0.086;AN=70;DP=346;FS=0.0
40139	chrY	16275407	.	C	T	3530.98	PASS	AC=40;AF=0.690;AN=58;DP=296;FS=0.
40140	chrY	16276717	.	C	G	8164.48	PASS	AC=38;AF=0.559;AN=68;DP=476;FS=0.
40141	chrY	16280570	.	G	A	244.63	PASS	AC=2;AF=0.029;AN=70;DP=397;FS=0.0
40142	chrY	16281210	.	T	A	30.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40143	chrY	16281254	.	A	G	36.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40144	chrY	16286659	.	G	A	458.28	PASS	AC=2;AF=0.032;AN=62;DP=204;FS=0.0
40145	chrY	16288097	.	T	A	3433.17	PASS	AC=37;AF=0.974;AN=38;BaseQRankSum=
40146	chrY	16294167	.	T	A	1318.63	PASS	AC=6;AF=0.088;AN=68;DP=302;FS=0.0
40147	chrY	16296146	.	C	G	498.65	PASS	AC=2;AF=0.031;AN=64;DP=243;FS=0.0
40148	chrY	16297724	.	G	C	3994.87	PASS	AC=44;AF=0.647;AN=68;DP=279;FS=0.
40149	chrY	16298899	.	T	C	1057.80	PASS	AC=6;AF=0.088;AN=68;DP=473;FS=0.0
40150	chrY	16301305	.	T	C	645.87	PASS	AC=6;AF=0.097;AN=62;DP=199;FS=0.0
40151	chrY	16302173	.	C	G	38.28	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
40152	chrY	16302175	.	T	A	38.38	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
40153	chrY	16302927	.	A	T	3303.05	PASS	AC=52;AF=0.743;AN=70;DP=274;FS=0.
40154	chrY	16306630	.	G	A	1238.33	PASS	AC=6;AF=0.088;AN=68;DP=490;FS=0.0
40155	chrY	16307000	.	C	T	35.47	PASS	AC=2;AF=0.029;AN=68;DP=316;FS=0.0
40156	chrY	16313498	.	G	T	287.79	PASS	AC=2;AF=0.029;AN=70;DP=525;FS=0.0
40157	chrY	16316281	.	T	A	1077.37	PASS	AC=6;AF=0.120;AN=50;DP=178;FS=0.0
40158	chrY	16317266	.	T	C	561.02	PASS	AC=6;AF=0.086;AN=70;DP=662;FS=0.0
40159	chrY	16320405	.	T	A	1253.29	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=
40160	chrY	16325878	.	G	A	1198.40	PASS	AC=6;AF=0.086;AN=70;DP=597;FS=0.0
40161	chrY	16326877	.	C	T	33.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40162	chrY	16326878	.	C	T	33.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40163	chrY	16331558	.	A	G	8513.07	PASS	AC=64;AF=1.00;AN=64;DP=297;FS=0.0
40164	chrY	16337459	.	C	A	363.79	PASS	AC=2;AF=0.029;AN=70;DP=386;FS=0.0
40165	chrY	16341091	.	G	T	11613.60	PASS	AC=52;AF=0.743;AN=70;Base
40166	chrY	16344603	.	T	C	882.39	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40167	chrY	16345225	.	T	C	759.95	PASS	AC=4;AF=0.057;AN=70;DP=378;FS=0.0
40168	chrY	16346239	.	C	T	1400.36	PASS	AC=6;AF=0.086;AN=70;DP=488;FS=0.0
40169	chrY	16346570	.	A	T	682.67	PASS	AC=4;AF=0.057;AN=70;DP=392;FS=0.0
40170	chrY	16346883	.	G	A	1134.83	PASS	AC=6;AF=0.086;AN=70;DP=407;FS=0.0
40171	chrY	16349174	.	G	C	1229.89	PASS	AC=6;AF=0.086;AN=70;DP=502;FS=0.0
40172	chrY	16353644	.	A	G	30.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40173	chrY	16362484	.	G	A	9401.13	PASS	AC=38;AF=0.559;AN=68;DP=531;FS=0.0
40174	chrY	16362498	.	C	T	1271.76	PASS	AC=6;AF=0.086;AN=70;DP=579;FS=0.0
40175	chrY	16364286	.	A	C	11634.19	PASS	AC=56;AF=0.824;AN=68;Base
40176	chrY	16366818	.	G	T	31.38	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
40177	chrY	16368310	.	G	A	7629.22	PASS	AC=54;AF=0.818;AN=66;DP=373;FS=0.
40178	chrY	16369982	.	A	T	6386.40	PASS	AC=48;AF=0.727;AN=66;DP=352;FS=0.0
40179	chrY	16370123	.	C	T	1097.36	PASS	AC=6;AF=0.091;AN=66;DP=254;FS=0.0
40180	chrY	16370564	.	G	T	818.40	PASS	AC=4;AF=0.057;AN=70;DP=462;FS=0.0
40181	chrY	16373480	.	T	A	1132.80	PASS	AC=6;AF=0.086;AN=70;DP=266;FS=0.0
40182	chrY	16375727	.	G	A	1943.73	PASS	AC=32;AF=0.533;AN=60;DP=230;FS=0.
40183	chrY	16375764	.	T	C	1015.60	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
40184	chrY	16375855	.	C	T	288.09	PASS	AC=2;AF=0.031;AN=64;DP=246;FS=0.0
40185	chrY	16376421	.	C	G	6016.71	PASS	AC=46;AF=0.657;AN=70;DP=381;FS=0.
40186	chrY	16376495	.	C	A	10825.99	PASS	AC=68;AF=1.00;AN=68;BaseQ
40187	chrY	16379112	.	C	A	38.75	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
40188	chrY	16379116	.	G	A	38.86	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
40189	chrY	16383689	.	C	T	173.47	PASS	AC=6;AF=0.231;AN=26;DP=169;FS=0.0
40190	chrY	16394317	.	T	C	51.67	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
40191	chrY	16394489	.	G	T	18473.91	PASS	AC=66;AF=1.00;AN=66;BaseQ
40192	chrY	16395294	.	A	C	1395.77	PASS	AC=6;AF=0.300;AN=20;DP=153;FS=0.0
40193	chrY	16401339	.	T	C	9120.24	PASS	AC=56;AF=0.824;AN=68;DP=415;FS=0.
40194	chrY	16401798	.	T	C	38.12	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40195	chrY	16401807	.	T	A	38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40196	chrY	16401983	.	A	G	252.57	PASS	AC=2;AF=0.100;AN=20;DP=50;FS=0.00
40197	chrY	16402912	.	A	G	757.86	PASS	AC=6;AF=0.107;AN=56;DP=244;FS=0.0
40198	chrY	16403895	.	A	T	1373.52	PASS	AC=6;AF=0.086;AN=70;DP=382;FS=0.0
40199	chrY	16407174	.	T	C	1062.40	PASS	AC=6;AF=0.086;AN=70;DP=304;FS=0.0
40200	chrY	16409159	.	C	A	725.75	PASS	AC=18;AF=0.500;AN=36;DP=170;FS=0.
40201	chrY	16411247	.	A	G	696.44	PASS	AC=6;AF=0.086;AN=70;DP=250;FS=0.0
40202	chrY	16413930	.	G	A	1131.15	PASS	AC=6;AF=0.091;AN=66;DP=263;FS=0.0
40203	chrY	16415858	.	C	T	111.18	PASS	AC=4;AF=0.057;AN=70;DP=344;FS=0.0
40204	chrY	16415936	.	A	G	1212.73	PASS	AC=6;AF=0.086;AN=70;DP=384;FS=0.0

40205	chrY	16421639	.	T	C	1396.53	PASS	AC=6;AF=0.200;AN=30;DP=149;FS=0.0
40206	chrY	16425449	.	T	C	17915.89	PASS	AC=70;AF=1.00;AN=70;BaseQ
40207	chrY	16426937	.	G	C	3885.97	PASS	AC=20;AF=1.00;AN=20;DP=153;FS=0.0
40208	chrY	16429385	.	C	A	129.77	PASS	AC=2;AF=0.029;AN=70;DP=352;FS=0.0
40209	chrY	16435956	.	G	T	51.82	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
40210	chrY	16438514	.	A	G	3586.32	PASS	AC=44;AF=0.710;AN=62;DP=248;FS=0.0
40211	chrY	16440192	.	T	C	80.07	PASS	AC=2;AF=0.030;AN=66;DP=259;FS=0.0
40212	chrY	16441971	.	C	A	121.14	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
40213	chrY	16441973	.	A	C	1219.81	PASS	AC=23;AF=0.676;AN=34;BaseQRankSum=
40214	chrY	16441975	.	A	C	327.76	PASS	AC=8;AF=0.167;AN=48;DP=96;FS=0.00
40215	chrY	16441977	.	A	C	50.56	PASS	AC=2;AF=0.048;AN=42;DP=80;FS=0.00
40216	chrY	16442413	.	G	T	1119.12	PASS	AC=6;AF=0.086;AN=70;DP=541;FS=0.0
40217	chrY	16442429	.	G	C	1142.86	PASS	AC=6;AF=0.086;AN=70;DP=615;FS=0.0
40218	chrY	16446449	.	C	T	448.20	PASS	AC=2;AF=0.029;AN=70;DP=626;FS=0.0
40219	chrY	16450159	.	C	A	2669.29	PASS	AC=12;AF=0.182;AN=66;DP=267;FS=0.0
40220	chrY	16454814	.	C	T	1118.88	PASS	AC=6;AF=0.086;AN=70;DP=397;FS=0.0
40221	chrY	16455146	.	G	T	602.62	PASS	AC=6;AF=0.086;AN=70;DP=455;FS=0.0
40222	chrY	16456515	.	A	G	356.52	PASS	AC=2;AF=0.029;AN=70;DP=499;FS=0.0
40223	chrY	16456522	.	G	A	2653.90	PASS	AC=14;AF=0.200;AN=70;DP=499;FS=0.0
40224	chrY	16458291	.	A	G	806.32	PASS	AC=6;AF=0.086;AN=70;DP=339;FS=0.0
40225	chrY	16459782	.	T	C	841.90	PASS	AC=6;AF=0.086;AN=70;DP=306;FS=0.0
40226	chrY	16460572	.	C	A	111.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40227	chrY	16460576	.	T	A	108.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40228	chrY	16460591	.	G	A	144.17	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40229	chrY	16460618	.	C	A	33.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40230	chrY	16467111	.	T	C	10244.52	PASS	AC=56;AF=0.824;AN=68;DP=5
40231	chrY	16477410	.	G	A	1341.33	PASS	AC=6;AF=0.086;AN=70;DP=515;FS=0.0
40232	chrY	16478764	.	G	A	74.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40233	chrY	16478768	.	G	C	31.19	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
40234	chrY	16478770	.	G	C	31.11	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
40235	chrY	16480738	.	A	G	687.31	PASS	AC=6;AF=0.086;AN=70;DP=517;FS=0.0
40236	chrY	16483478	.	C	T	1364.81	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.0
40237	chrY	16486412	.	G	A	900.25	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40238	chrY	16487601	.	A	G	69.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40239	chrY	16487622	.	C	T	74.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40240	chrY	16487623	.	A	T	74.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40241	chrY	16487627	.	A	T	74.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40242	chrY	16487640	.	A	G	32.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40243	chrY	16487654	.	C	A	31.79	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40244	chrY	16487661	.	G	A	32.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40245	chrY	16487666	.	C	T	31.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40246	chrY	16489668	.	T	G	9398.02	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=
40247	chrY	16489797	.	A	G	104.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40248	chrY	16489798	.	T	A	104.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40249	chrY	16489799	.	A	C	128.25	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40250	chrY	16489808	.	T	C	131.59	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
40251	chrY	16489819	.	T	C	313.11	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
40252	chrY	16489820	.	G	A	311.03	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
40253	chrY	16489827	.	G	T	334.44	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
40254	chrY	16489875	.	G	A	299.46	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
40255	chrY	16489886	.	A	G	744.46	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
40256	chrY	16489887	.	G	C	740.08	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
40257	chrY	16489891	.	C	A	746.75	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
40258	chrY	16489893	.	G	A	752.74	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
40259	chrY	16489898	.	T	G	752.82	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
40260	chrY	16489904	.	C	G	741.23	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
40261	chrY	16489921	.	T	A	658.52	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
40262	chrY	16489931	.	A	G	669.80	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
40263	chrY	16489974	.	G	C	181.76	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40264	chrY	16489979	.	C	T	186.25	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40265	chrY	16489981	.	C	T	186.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40266	chrY	16490062	.	G	A	110.71	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40267	chrY	16490066	.	A	G	115.29	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40268	chrY	16490079	.	G	A	124.93	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40269	chrY	16490083	.	C	T	107.95	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40270	chrY	16490087	.	C	T	93.76	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40271	chrY	16490097	.	C	T	100.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
40272	chrY	16490108	.	G	T	88.62	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
40273	chrY	16490111	.	A	G	91.58	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
40274	chrY	16490115	.	G	A	12782.67	PASS	AC=56;AF=0.824;AN=68;BaseQ
40275	chrY	16490119	.	A	T	91.55	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
40276	chrY	16490126	.	T	A	90	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
40277	chrY	16490133	.	G	A	85.94	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40278	chrY	16490144	.	C	T	107.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40279	chrY	16490148	.	A	G	102.85	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
40280	chrY	16490151	.	C	A	95.19	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ

40281	chrY	16490158	.	G	C	94.05	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
40282	chrY	16490165	.	G	A	85.96	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40283	chrY	16490171	.	C	A	92.30	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
40284	chrY	16490174	.	T	C	64.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
40285	chrY	16490247	.	C	T	535.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40286	chrY	16490256	.	C	T	532.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40287	chrY	16490260	.	G	C	535.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40288	chrY	16490261	.	G	T	535.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40289	chrY	16490283	.	T	C	573.15	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40290	chrY	16490308	.	G	A	554.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40291	chrY	16490311	.	T	G	547.94	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40292	chrY	16490333	.	T	C	518.88	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40293	chrY	16490334	.	G	A	515.89	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40294	chrY	16490335	.	A	G	435.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40295	chrY	16490339	.	C	G	401.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40296	chrY	16490345	.	G	A	320.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40297	chrY	16490349	.	T	A	229.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40298	chrY	16490350	.	G	C	229.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40299	chrY	16490357	.	C	A	223.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40300	chrY	16490359	.	T	C	223.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40301	chrY	16490413	.	T	C	71.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40302	chrY	16490414	.	G	A	71.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40303	chrY	16490422	.	T	C	75.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40304	chrY	16490423	.	G	A	127.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40305	chrY	16490446	.	C	A	167.83	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
40306	chrY	16490451	.	T	A	206.87	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
40307	chrY	16490460	.	A	G	218.41	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
40308	chrY	16490466	.	G	T	224.92	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
40309	chrY	16490494	.	A	T	177.92	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40310	chrY	16490497	.	C	A	155.41	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
40311	chrY	16490513	.	G	C	134.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40312	chrY	16490522	.	C	G	126.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40313	chrY	16490523	.	T	C	129.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40314	chrY	16490537	.	C	A	89.90	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40315	chrY	16490538	.	A	G	89.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40316	chrY	16490545	.	C	T	95.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40317	chrY	16490566	.	C	T	43.67	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40318	chrY	16490567	.	A	G	41.07	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40319	chrY	16490570	.	C	T	44.62	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40320	chrY	16490572	.	A	C	40.93	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40321	chrY	16491135	.	T	C	12085.94	PASS	AC=70;AF=1.00;AN=70;DP=40
40322	chrY	16492547	.	T	C	10788.05	PASS	AC=68;AF=1.00;AN=68;DP=38
40323	chrY	16494359	.	A	C	605.73	PASS	AC=14;AF=0.778;AN=18;DP=31;FS=0.0
40324	chrY	16494392	.	T	G	505.20	PASS	AC=4;AF=0.154;AN=26;DP=49;FS=9.33
40325	chrY	16494394	.	T	G	430.14	PASS	AC=4;AF=0.154;AN=26;DP=51;FS=9.70
40326	chrY	16494396	.	T	G	883.27	PASS	AC=6;AF=0.214;AN=28;BaseQRankSum=
40327	chrY	16494418	.	T	G	286.11	PASS	AC=6;AF=0.143;AN=42;DP=72;FS=0.00
40328	chrY	16497020	.	C	T	13084.02	PASS	AC=68;AF=1.00;AN=68;DP=43
40329	chrY	16497651	.	C	G	523.13	PASS	AC=2;AF=0.029;AN=70;DP=682;FS=0.0
40330	chrY	16499878	.	A	G	4682.86	PASS	AC=18;AF=1.00;AN=18;DP=178;FS=0.0
40331	chrY	16500468	.	C	T	1043.18	PASS	AC=6;AF=0.333;AN=18;DP=173;FS=0.0
40332	chrY	16508696	.	C	G	116.36	PASS	AC=2;AF=0.077;AN=26;DP=113;FS=0.0
40333	chrY	16511867	.	T	C	2368.92	PASS	AC=12;AF=0.171;AN=70;DP=444;FS=0.0
40334	chrY	16513359	.	A	T	43.99	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
40335	chrY	16513362	.	G	A	43.89	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
40336	chrY	16525245	.	G	A	7191.49	PASS	AC=52;AF=0.743;AN=70;DP=371;FS=0.0
40337	chrY	16530795	.	A	G	635.86	PASS	AC=6;AF=0.097;AN=62;DP=172;FS=0.0
40338	chrY	16531401	.	G	T	302.40	PASS	AC=2;AF=0.029;AN=70;DP=463;FS=0.0
40339	chrY	16535034	.	G	A	6737.01	PASS	AC=62;AF=1.00;AN=62;DP=230;FS=0.0
40340	chrY	16540803	.	A	G	51.69	PASS	AC=2;AF=0.100;AN=20;DP=163;FS=0.0
40341	chrY	16546187	.	T	A	1344.64	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.0
40342	chrY	16546485	.	T	C	88.73	PASS	AC=2;AF=0.031;AN=64;DP=190;FS=0.0
40343	chrY	16549528	.	G	A	1744.87	PASS	AC=6;AF=0.088;AN=68;DP=454;FS=0.0
40344	chrY	16549877	.	G	A	1466.95	PASS	AC=6;AF=0.088;AN=68;DP=386;FS=0.0
40345	chrY	16550226	.	G	T	1204.48	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.0
40346	chrY	16560334	.	T	C	608.33	PASS	AC=6;AF=0.086;AN=70;DP=587;FS=0.0
40347	chrY	16567551	.	A	G	11061.76	PASS	AC=54;AF=0.818;AN=66;BaseQ
40348	chrY	16573458	.	A	G	119.95	PASS	AC=2;AF=0.029;AN=68;DP=380;FS=0.0
40349	chrY	16574438	.	A	T	463.67	PASS	AC=2;AF=0.040;AN=50;DP=185;FS=0.0
40350	chrY	16574499	.	A	C	2243.03	PASS	AC=34;AF=0.654;AN=52;DP=232;FS=0.0
40351	chrY	16583538	.	G	A	1190.45	PASS	AC=6;AF=0.086;AN=70;DP=569;FS=0.0
40352	chrY	16590836	.	C	T	465.05	PASS	AC=6;AF=0.200;AN=30;DP=117;FS=0.0
40353	chrY	16595733	.	C	T	7664.01	PASS	AC=50;AF=0.735;AN=68;BaseQRankSum=
40354	chrY	16607811	.	C	A	409.84	PASS	AC=2;AF=0.029;AN=68;DP=275;FS=0.0
40355	chrY	16607930	.	T	G	6739.11	PASS	AC=60;AF=1.00;AN=60;DP=242;FS=0.0
40356	chrY	16609794	.	C	A	1103.17	PASS	AC=6;AF=0.086;AN=70;DP=580;FS=0.0

40357	chrY	16610279	.	C	T	127.30	PASS	AC=2;AF=0.029;AN=70;DP=413;FS=0.0
40358	chrY	16615413	.	T	G	12423	PASS	AC=70;AF=1.00;AN=70;DP=396;FS=0.0
40359	chrY	16618045	.	G	A	43.87	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
40360	chrY	16618273	.	T	G	823.76	PASS	AC=6;AF=0.300;AN=20;DP=147;FS=0.0
40361	chrY	16621442	.	T	C	347.07	PASS	AC=6;AF=0.086;AN=70;DP=295;FS=0.0
40362	chrY	16621786	.	G	A	4207.80	PASS	AC=34;AF=0.548;AN=62;DP=345;FS=0.0
40363	chrY	16622019	.	T	A	8308.75	PASS	AC=34;AF=0.486;AN=70;DP=613;FS=0.0
40364	chrY	16625037	.	G	A	1112.38	PASS	AC=6;AF=0.250;AN=24;DP=139;FS=0.0
40365	chrY	16628931	.	A	T	868.48	PASS	AC=6;AF=0.088;AN=68;DP=226;FS=0.0
40366	chrY	16629782	.	C	T	16931.98	PASS	AC=70;AF=1.00;AN=70;DP=55
40367	chrY	16635445	.	T	G	800.63	PASS	AC=6;AF=0.086;AN=70;DP=511;FS=0.0
40368	chrY	16639435	.	A	G	489.76	PASS	AC=6;AF=0.088;AN=68;DP=301;FS=0.0
40369	chrY	16642608	.	C	T	666.42	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40370	chrY	16642612	.	G	C	703.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40371	chrY	16642677	.	A	T	1445.37	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40372	chrY	16642696	.	C	T	1732.35	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
40373	chrY	16642698	.	A	T	1771.83	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
40374	chrY	16642704	.	G	C	1910.31	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
40375	chrY	16642710	.	C	T	1701.29	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40376	chrY	16642721	.	A	G	1623.55	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40377	chrY	16642724	.	G	A	1578.94	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40378	chrY	16642741	.	T	A	1568.76	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
40379	chrY	16642743	.	T	C	1524.80	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
40380	chrY	16642758	.	T	C	267.31	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
40381	chrY	16642771	.	A	T	328.98	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
40382	chrY	16642772	.	A	T	323.05	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
40383	chrY	16642777	.	A	G	336.25	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
40384	chrY	16642808	.	C	T	236.21	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
40385	chrY	16642824	.	A	G	179.35	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40386	chrY	16642830	.	T	C	176.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40387	chrY	16642838	.	C	A	253.73	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
40388	chrY	16642866	.	C	T	522.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40389	chrY	16642873	.	A	G	574	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40390	chrY	16642875	.	T	C	543.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40391	chrY	16642876	.	A	G	544.06	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40392	chrY	16642879	.	T	A	541.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40393	chrY	16642880	.	A	G	535.67	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40394	chrY	16642884	.	A	C	539.94	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40395	chrY	16642886	.	G	A	536.72	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40396	chrY	16642890	.	T	G	581.54	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40397	chrY	16642893	.	G	A	589.85	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40398	chrY	16642946	.	C	T	697.96	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
40399	chrY	16642956	.	A	T	699.32	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
40400	chrY	16642962	.	T	C	511.45	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
40401	chrY	16644119	.	A	G	1082.94	PASS	AC=6;AF=0.086;AN=70;DP=612;FS=0.0
40402	chrY	16644388	.	G	A	259.74	PASS	AC=2;AF=0.029;AN=70;DP=333;FS=0.0
40403	chrY	16645202	.	C	T	1104.82	PASS	AC=6;AF=0.086;AN=70;DP=309;FS=0.0
40404	chrY	16645425	.	A	G	51.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40405	chrY	16645435	.	A	G	79.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40406	chrY	16645593	.	G	C	1648.41	PASS	AC=6;AF=0.086;AN=70;DP=624;FS=0.0
40407	chrY	16646059	.	C	A	97.42	PASS	AC=4;AF=0.071;AN=56;DP=205;FS=0.0
40408	chrY	16648220	.	G	T	32.58	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40409	chrY	16648664	.	C	G	964.48	PASS	AC=6;AF=0.091;AN=66;DP=211;FS=0.0
40410	chrY	16648816	.	G	A	1401.90	PASS	AC=6;AF=0.086;AN=70;DP=620;FS=0.0
40411	chrY	16649534	.	A	G	441.99	PASS	AC=2;AF=0.029;AN=70;DP=415;FS=0.0
40412	chrY	16656810	.	T	C	80.41	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
40413	chrY	16656818	.	A	C	182.48	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
40414	chrY	16658284	.	C	T	725.75	PASS	AC=2;AF=0.100;AN=20;DP=186;FS=0.0
40415	chrY	16661107	.	T	G	15402.76	PASS	AC=58;AF=0.829;AN=70;DP=6
40416	chrY	16663493	.	C	G	2069.72	PASS	AC=32;AF=0.593;AN=54;DP=244;FS=0.0
40417	chrY	16666962	.	T	C	252.07	PASS	AC=2;AF=0.029;AN=68;DP=319;FS=0.0
40418	chrY	16672108	.	G	A	496.24	PASS	AC=2;AF=0.029;AN=70;DP=486;FS=0.0
40419	chrY	16681389	.	C	T	461.07	PASS	AC=2;AF=0.029;AN=68;DP=394;FS=0.0
40420	chrY	16685562	.	T	A	230.21	PASS	AC=2;AF=0.091;AN=22;DP=194;FS=0.0
40421	chrY	16687539	.	G	T	1409.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40422	chrY	16690780	.	C	T	4160.57	PASS	AC=46;AF=0.793;AN=58;DP=275;FS=0.0
40423	chrY	16692387	.	G	A	709.21	PASS	AC=6;AF=0.086;AN=70;DP=292;FS=0.0
40424	chrY	16692682	.	G	T	436.39	PASS	AC=6;AF=0.097;AN=62;DP=304;FS=0.0
40425	chrY	16693532	.	G	A	1191.03	PASS	AC=6;AF=0.086;AN=70;DP=456;FS=0.0
40426	chrY	16696676	.	G	A	809.24	PASS	AC=20;AF=0.455;AN=44;DP=187;FS=0.0
40427	chrY	16698746	.	T	G	498.13	PASS	AC=2;AF=0.029;AN=70;DP=590;FS=0.0
40428	chrY	16704749	.	G	A	638.46	PASS	AC=4;AF=0.057;AN=70;DP=600;FS=0.0
40429	chrY	16710189	.	A	G	833.60	PASS	AC=6;AF=0.136;AN=44;DP=184;FS=0.0
40430	chrY	16713287	.	A	G	20557.96	PASS	AC=70;AF=1.00;AN=70;DP=68
40431	chrY	16714685	.	G	A	1112.50	PASS	AC=6;AF=0.088;AN=68;DP=464;FS=0.0
40432	chrY	16718720	.	T	C	4068.19	PASS	AC=36;AF=1.00;AN=36;DP=170;FS=0.0

40433	chrY	16720013	.	T	C	2450.87	PASS	AC=18;AF=1.00;AN=18;DP=166;FS=0.0
40434	chrY	16720052	.	T	C	1297.30	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40435	chrY	16720143	.	G	T	1178.19	PASS	AC=6;AF=0.333;AN=18;DP=158;FS=0.0
40436	chrY	16723271	.	C	T	780.40	PASS	AC=12;AF=0.500;AN=24;BaseQRankSum
40437	chrY	16723439	.	A	G,*	913	PASS	AC=16,2;AF=0.400,0.050;AN=40;DP=1
40438	chrY	16726837	.	G	T	2491.90	PASS	AC=18;AF=1.00;AN=18;DP=95;FS=0.00
40439	chrY	16727574	.	A	G	343.20	PASS	AC=2;AF=0.083;AN=24;DP=189;FS=0.0
40440	chrY	16731665	.	C	T	7951.50	PASS	AC=56;AF=0.824;AN=68;DP=345;FS=0.
40441	chrY	16733053	.	G	A	493.72	PASS	AC=2;AF=0.029;AN=70;DP=402;FS=0.0
40442	chrY	16739600	.	G	A	1126.28	PASS	AC=6;AF=0.094;AN=64;DP=336;FS=0.0
40443	chrY	16742224	.	G	A	15926.88	PASS	AC=64;AF=1.00;AN=64;DP=54
40444	chrY	16750304	.	T	C	185.42	PASS	AC=2;AF=0.029;AN=70;DP=311;FS=0.0
40445	chrY	16751375	.	G	A	1295.18	PASS	AC=6;AF=0.086;AN=70;DP=558;FS=0.0
40446	chrY	16751825	.	A	G	9585.11	PASS	AC=64;AF=1.00;AN=64;DP=332;FS=0.0
40447	chrY	16755578	.	G	T	7016.63	PASS	AC=38;AF=0.559;AN=68;BaseQRankSum
40448	chrY	16756078	.	A	T	302.95	PASS	AC=2;AF=0.029;AN=70;DP=369;FS=0.0
40449	chrY	16757900	.	C	T	28237.68	PASS	AC=52;AF=0.743;AN=70;DP=1
40450	chrY	16760911	.	C	A	696.54	PASS	AC=6;AF=0.103;AN=58;DP=190;FS=0.0
40451	chrY	16765490	.	C	T	1542.82	PASS	AC=6;AF=0.300;AN=20;DP=159;FS=0.0
40452	chrY	16767163	.	T	C	35.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
40453	chrY	16768835	.	C	T	1835.70	PASS	AC=30;AF=0.625;AN=48;DP=181;FS=0.
40454	chrY	16768929	.	T	C	1052.58	PASS	AC=16;AF=0.571;AN=28;BaseQRankSum
40455	chrY	16769582	.	G	A	1012.03	PASS	AC=6;AF=0.097;AN=62;DP=424;FS=0.0
40456	chrY	16770163	.	A	T	769.43	PASS	AC=6;AF=0.088;AN=68;DP=320;FS=0.0
40457	chrY	16773870	.	G	A	9971.05	PASS	AC=66;AF=1.00;AN=66;DP=345;FS=0.0
40458	chrY	16777644	.	G	T	31.32	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40459	chrY	16778040	.	C	T	2131.93	PASS	AC=32;AF=0.571;AN=56;DP=265;FS=0.
40460	chrY	16780809	.	G	A	14269.90	PASS	AC=50;AF=0.735;AN=68;DP=6
40461	chrY	16780848	.	T	C	438.19	PASS	AC=2;AF=0.029;AN=70;DP=592;FS=0.0
40462	chrY	16781770	.	A	C	953.01	PASS	AC=6;AF=0.088;AN=68;DP=437;FS=0.0
40463	chrY	16786131	.	C	A	47.47	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
40464	chrY	16796295	.	C	A	3720.62	PASS	AC=36;AF=0.545;AN=66;DP=326;FS=0.
40465	chrY	16796375	.	C	G	6988.14	PASS	AC=50;AF=0.735;AN=68;DP=396;FS=0.
40466	chrY	16818679	.	T	A	686.11	PASS	AC=16;AF=1.00;AN=16;DP=29;FS=0.00
40467	chrY	16818681	.	T	A	435.26	PASS	AC=8;AF=0.500;AN=16;DP=26;FS=0.00
40468	chrY	16823201	.	T	C	3718.01	PASS	AC=44;AF=0.710;AN=62;DP=251;FS=0.
40469	chrY	16823982	.	A	G	612.90	PASS	AC=6;AF=0.088;AN=68;DP=261;FS=0.0
40470	chrY	16832763	.	T	C	1275.08	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.0
40471	chrY	16839641	.	T	A	8906.42	PASS	AC=56;AF=0.824;AN=68;DP=408;FS=0.
40472	chrY	16843208	.	T	C	358.83	PASS	AC=4;AF=0.057;AN=70;DP=336;FS=0.0
40473	chrY	16844417	.	C	T	1088.43	PASS	AC=6;AF=0.086;AN=70;DP=462;FS=0.0
40474	chrY	16847534	.	G	C	1296.76	PASS	AC=6;AF=0.103;AN=58;DP=235;FS=0.0
40475	chrY	16848084	.	T	C	639.68	PASS	AC=6;AF=0.086;AN=70;DP=597;FS=0.0
40476	chrY	16850199	.	A	G	182.70	PASS	AC=2;AF=0.029;AN=70;DP=269;FS=0.0
40477	chrY	16854800	.	C	T	714.61	PASS	AC=6;AF=0.107;AN=56;DP=129;FS=0.0
40478	chrY	16855781	.	C	T	1360.47	PASS	AC=6;AF=0.086;AN=70;DP=621;FS=0.0
40479	chrY	16856357	.	C	T	13420.93	PASS	AC=68;AF=1.00;AN=68;DP=45
40480	chrY	16857131	.	C	T	1650.78	PASS	AC=6;AF=0.086;AN=70;DP=447;FS=0.0
40481	chrY	16859254	.	A	G	797.71	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
40482	chrY	16863259	.	G	C	1096.26	PASS	AC=6;AF=0.086;AN=70;DP=562;FS=0.0
40483	chrY	16863918	.	C	A	9403.22	PASS	AC=52;AF=0.743;AN=70;DP=450;FS=0.
40484	chrY	16865215	.	T	C	32.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40485	chrY	16869284	.	C	T	881.40	PASS	AC=6;AF=0.086;AN=70;DP=404;FS=0.0
40486	chrY	16870987	.	G	C	1021.96	PASS	AC=6;AF=0.086;AN=70;DP=358;FS=0.0
40487	chrY	16871809	.	C	A	6376.69	PASS	AC=50;AF=0.735;AN=68;DP=352;FS=0.0
40488	chrY	16882568	.	C	T	17897.93	PASS	AC=70;AF=1.00;AN=70;DP=62
40489	chrY	16889464	.	G	A	181.77	PASS	AC=2;AF=0.029;AN=70;DP=340;FS=0.0
40490	chrY	16894620	.	C	T	1473.27	PASS	AC=6;AF=0.086;AN=70;DP=621;FS=0.0
40491	chrY	16898155	.	T	C	1176.58	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.0
40492	chrY	16898766	.	A	C	451.12	PASS	AC=2;AF=0.029;AN=70;DP=606;FS=0.0
40493	chrY	16902070	.	A	G	833.38	PASS	AC=6;AF=0.088;AN=68;DP=233;FS=0.0
40494	chrY	16903082	.	G	C	837.22	PASS	AC=6;AF=0.086;AN=70;DP=477;FS=0.0
40495	chrY	16903417	.	G	A	1147.03	PASS	AC=6;AF=0.086;AN=70;DP=618;FS=0.0
40496	chrY	16904813	.	A	T	599.09	PASS	AC=6;AF=0.086;AN=70;DP=290;FS=0.0
40497	chrY	16906683	.	A	G	8668.34	PASS	AC=56;AF=0.824;AN=68;DP=418;FS=0.
40498	chrY	16906927	.	G	A	343.41	PASS	AC=2;AF=0.063;AN=32;DP=156;FS=0.0
40499	chrY	16908601	.	G	C	1014.63	PASS	AC=6;AF=0.086;AN=70;DP=338;FS=0.0
40500	chrY	16915498	.	T	G	1066.82	PASS	AC=6;AF=0.086;AN=70;DP=436;FS=0.0
40501	chrY	16922757	.	G	T	5218.84	PASS	AC=44;AF=0.647;AN=68;DP=328;FS=0.
40502	chrY	16925709	.	T	C	11863.08	PASS	AC=52;AF=0.743;AN=70;DP=5
40503	chrY	16926235	.	C	G	390.76	PASS	AC=2;AF=0.029;AN=68;DP=475;FS=0.0
40504	chrY	16932181	.	C	T	11089.57	PASS	AC=50;AF=0.735;AN=68;DP=5
40505	chrY	16932723	.	C	T	316.97	PASS	AC=2;AF=0.030;AN=66;DP=374;FS=0.0
40506	chrY	16932886	.	C	G	317.15	PASS	AC=2;AF=0.029;AN=70;DP=331;FS=0.0
40507	chrY	16939406	.	C	A	8596.10	PASS	AC=64;AF=1.00;AN=64;BaseQRankSum=
40508	chrY	16944053	.	C	T	13138.96	PASS	AC=68;AF=1.00;AN=68;DP=43

40509	chrY	16945894	.	A	G	3846.59	PASS	AC=49;AF=0.721;AN=68;BaseQRankSum=
40510	chrY	16946036	.	C	T	1072.67	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.0
40511	chrY	16950107	.	C	T	2023.45	PASS	AC=6;AF=0.103;AN=58;DP=163;FS=0.0
40512	chrY	16952778	.	T	G	76.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40513	chrY	16954110	.	A	T	1367.80	PASS	AC=6;AF=0.088;AN=68;DP=431;FS=0.0
40514	chrY	16954365	.	G	A	1124.29	PASS	AC=6;AF=0.086;AN=70;DP=549;FS=0.0
40515	chrY	16957887	.	T	C	317.37	PASS	AC=2;AF=0.029;AN=70;DP=279;FS=0.0
40516	chrY	16959482	.	T	A	818.60	PASS	AC=6;AF=0.094;AN=64;DP=191;FS=0.0
40517	chrY	16960327	.	A	T	34.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40518	chrY	16960334	.	T	A	33.84	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40519	chrY	16960346	.	A	G	34.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40520	chrY	16962349	.	G	A	3626.12	PASS	AC=40;AF=0.625;AN=64;DP=320;FS=0.
40521	chrY	16965477	.	G	A	405.29	PASS	AC=2;AF=0.029;AN=70;DP=397;FS=0.0
40522	chrY	16967534	.	C	T	111.25	PASS	AC=2;AF=0.029;AN=68;DP=252;FS=0.0
40523	chrY	16971648	.	G	T	10656.05	PASS	AC=66;AF=1.00;AN=66;BaseQ
40524	chrY	16975302	.	C	A	7694.42	PASS	AC=56;AF=0.824;AN=68;BaseQRankSum=
40525	chrY	16976800	.	C	A	103.51	PASS	AC=4;AF=0.167;AN=24;DP=202;FS=0.0
40526	chrY	16987831	.	G	A	1238.19	PASS	AC=6;AF=0.333;AN=18;DP=159;FS=0.0
40527	chrY	16993058	.	C	T	1144.77	PASS	AC=6;AF=0.086;AN=70;DP=437;FS=0.0
40528	chrY	16994286	.	T	G	1120.76	PASS	AC=6;AF=0.300;AN=20;DP=166;FS=0.0
40529	chrY	16994673	.	G	A	1420.18	PASS	AC=6;AF=0.333;AN=18;DP=152;FS=0.0
40530	chrY	16996654	.	C	T	482.21	PASS	AC=13;AF=0.929;AN=14;BaseQRankSum=
40531	chrY	16996698	.	C	T	47.18	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40532	chrY	16996714	.	G	T	42.52	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40533	chrY	16996725	.	C	T	43.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40534	chrY	16996733	.	G	C	42.55	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40535	chrY	16996734	.	C	T	43.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40536	chrY	16996738	.	G	A	42.59	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40537	chrY	16996739	.	C	G	42.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40538	chrY	16998568	.	T	C	472.91	PASS	AC=4;AF=0.182;AN=22;DP=157;FS=0.0
40539	chrY	16999205	.	A	G	277.02	PASS	AC=2;AF=0.111;AN=18;DP=178;FS=0.0
40540	chrY	17003020	.	C	T	997.22	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.0
40541	chrY	17003761	.	G	A	1416.51	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
40542	chrY	17005069	.	A	T	10258.94	PASS	AC=68;AF=1.00;AN=68;DP=33
40543	chrY	17011456	.	G	A	1996.14	PASS	AC=6;AF=0.086;AN=70;DP=458;FS=0.0
40544	chrY	17013398	.	A	G	1078.69	PASS	AC=6;AF=0.091;AN=66;DP=237;FS=0.0
40545	chrY	17013730	.	A	G	5037.79	PASS	AC=55;AF=0.982;AN=56;BaseQRankSum=
40546	chrY	17018227	.	C	T	320.29	PASS	AC=6;AF=0.097;AN=62;DP=268;FS=0.0
40547	chrY	17018656	.	C	G	397.59	PASS	AC=2;AF=0.032;AN=62;DP=241;FS=0.0
40548	chrY	17027791	.	A	C	1570.03	PASS	AC=6;AF=0.091;AN=66;DP=297;FS=0.0
40549	chrY	17033780	.	T	C	578.47	PASS	AC=6;AF=0.115;AN=52;DP=181;FS=0.0
40550	chrY	17035449	.	A	T	1102.19	PASS	AC=6;AF=0.333;AN=18;DP=141;FS=0.0
40551	chrY	17035711	.	A	G	392.92	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
40552	chrY	17040435	.	T	G	3023.47	PASS	AC=32;AF=0.571;AN=56;DP=265;FS=0.
40553	chrY	17048682	.	A	T	851.93	PASS	AC=6;AF=0.086;AN=70;DP=556;FS=0.0
40554	chrY	17053586	.	A	G	1385.35	PASS	AC=6;AF=0.086;AN=70;DP=547;FS=0.0
40555	chrY	17054046	.	C	G	43.82	PASS	AC=2;AF=0.033;AN=60;DP=243;FS=0.0
40556	chrY	17054936	.	A	T	375.94	PASS	AC=6;AF=0.500;AN=12;DP=24;FS=0.00
40557	chrY	17056170	.	A	T	13911.88	PASS	AC=46;AF=0.657;AN=70;DP=6
40558	chrY	17059145	.	G	A	1275.81	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
40559	chrY	17059146	.	G	T	1627.32	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
40560	chrY	17059149	.	T	A	1523.52	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
40561	chrY	17059180	.	C	T	71.81	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
40562	chrY	17059182	.	C	T	2084.08	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
40563	chrY	17059183	.	T	G	2096.08	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
40564	chrY	17059198	.	T	A	2157.31	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
40565	chrY	17059204	.	T	A	2045.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
40566	chrY	17059205	.	A	T	2045.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
40567	chrY	17059217	.	C	T	1733.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
40568	chrY	17059247	.	C	T	626.06	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
40569	chrY	17059255	.	T	C	630.92	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
40570	chrY	17059258	.	C	G	560.13	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
40571	chrY	17059267	.	G	A	475.48	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
40572	chrY	17059280	.	G	T	424.09	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
40573	chrY	17059303	.	T	A	863.07	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40574	chrY	17059329	.	T	A	53.04	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
40575	chrY	17059338	.	G	T	1910.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
40576	chrY	17059428	.	C	A	2437.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40577	chrY	17059436	.	C	A	2416.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40578	chrY	17059437	.	A	T	2393.01	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40579	chrY	17059446	.	T	C	1970.60	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40580	chrY	17059449	.	G	T	1883.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40581	chrY	17059453	.	G	A	1676.54	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
40582	chrY	17065539	.	C	A	1431.38	PASS	AC=6;AF=0.250;AN=24;DP=169;FS=0.0
40583	chrY	17066797	.	A	G	1423.18	PASS	AC=6;AF=0.333;AN=18;DP=173;FS=0.0
40584	chrY	17067265	.	C	A	1221.76	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=

40585	chrY	17070884	.	T	A	187.28	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
40586	chrY	17071093	.	G	A	456.51	PASS	AC=6;AF=0.094;AN=64;DP=213;FS=0.0
40587	chrY	17071974	.	C	T	8560.17	PASS	AC=50;AF=0.735;AN=68;DP=428;FS=0.
40588	chrY	17080017	.	G	A	344.81	PASS	AC=4;AF=0.065;AN=62;DP=220;FS=0.0
40589	chrY	17084066	.	A	G	791.18	PASS	AC=6;AF=0.333;AN=18;DP=192;FS=0.0
40590	chrY	17085914	.	C	A	109.34	PASS	AC=2;AF=0.040;AN=50;DP=138;FS=0.0
40591	chrY	17094924	.	A	T	32.38	PASS	AC=2;AF=0.037;AN=54;DP=182;FS=0.0
40592	chrY	17094925	.	T	A	32.26	PASS	AC=2;AF=0.036;AN=56;DP=185;FS=0.0
40593	chrY	17099623	.	A	T	940.65	PASS	AC=6;AF=0.086;AN=70;DP=478;FS=0.0
40594	chrY	17102925	.	G	A	357.19	PASS	AC=2;AF=0.029;AN=70;DP=658;FS=0.0
40595	chrY	17103702	.	C	T	1805.77	PASS	AC=6;AF=0.086;AN=70;DP=488;FS=0.0
40596	chrY	17103704	.	A	G	1805.80	PASS	AC=6;AF=0.086;AN=70;DP=492;FS=0.0
40597	chrY	17106822	.	A	G	46.12	PASS	AC=2;AF=0.029;AN=68;DP=415;FS=0.0
40598	chrY	17106840	.	C	T	8664.14	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=
40599	chrY	17113314	.	G	T	981.05	PASS	AC=6;AF=0.086;AN=70;DP=563;FS=0.0
40600	chrY	17117608	.	C	T	5294.56	PASS	AC=40;AF=0.625;AN=64;DP=313;FS=0.
40601	chrY	17122766	.	T	A	202.37	PASS	AC=2;AF=0.083;AN=24;DP=144;FS=0.0
40602	chrY	17126807	.	G	C	330.26	PASS	AC=2;AF=0.067;AN=30;DP=181;FS=0.0
40603	chrY	17127570	.	G	T	33.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40604	chrY	17129406	.	C	T	701.79	PASS	AC=6;AF=0.091;AN=66;DP=327;FS=0.0
40605	chrY	17132580	.	T	C	13850.89	PASS	AC=66;AF=1.00;AN=66;DP=46
40606	chrY	17137589	.	G	A	726.13	PASS	AC=6;AF=0.086;AN=70;DP=470;FS=0.0
40607	chrY	17142068	.	T	A	10403.23	PASS	AC=54;AF=0.818;AN=66;DP=4
40608	chrY	17152659	.	C	T	2095.78	PASS	AC=32;AF=0.727;AN=44;DP=181;FS=0.
40609	chrY	17153049	.	A	T	32.34	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40610	chrY	17153051	.	A	G	32.29	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40611	chrY	17154887	.	G	A	1393.38	PASS	AC=6;AF=0.273;AN=22;DP=173;FS=0.0
40612	chrY	17157093	.	C	T	17518.01	PASS	AC=52;AF=0.743;AN=70;Base
40613	chrY	17157702	.	G	T	904.63	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.0
40614	chrY	17164353	.	T	A	4275.86	PASS	AC=18;AF=1.00;AN=18;DP=175;FS=0.0
40615	chrY	17169008	.	T	C	744.65	PASS	AC=4;AF=0.061;AN=66;DP=282;FS=0.0
40616	chrY	17175773	.	T	C	3324.68	PASS	AC=42;AF=0.700;AN=60;DP=276;FS=0.
40617	chrY	17176797	.	A	T	7743.83	PASS	AC=48;AF=0.727;AN=66;DP=358;FS=0.
40618	chrY	17184198	.	C	G	500.60	PASS	AC=2;AF=0.029;AN=70;DP=292;FS=0.0
40619	chrY	17190810	.	A	C	982.63	PASS	AC=6;AF=0.086;AN=70;DP=248;FS=0.0
40620	chrY	17192238	.	C	T	1284.22	PASS	AC=6;AF=0.086;AN=70;DP=523;FS=0.0
40621	chrY	17193400	.	C	T	789.62	PASS	AC=16;AF=0.471;AN=34;DP=117;FS=0.
40622	chrY	17195931	.	C	T	339.82	PASS	AC=2;AF=0.034;AN=58;DP=162;FS=0.0
40623	chrY	17201524	.	A	T	1147.01	PASS	AC=6;AF=0.086;AN=70;DP=499;FS=0.0
40624	chrY	17203230	.	G	A	160.76	PASS	AC=2;AF=0.029;AN=70;DP=445;FS=0.0
40625	chrY	17206350	.	T	G	4476.13	PASS	AC=30;AF=1.00;AN=30;BaseQRankSum=
40626	chrY	17211530	.	G	A	512.78	PASS	AC=6;AF=0.086;AN=70;DP=502;FS=0.0
40627	chrY	17222906	.	G	T	9085.10	PASS	AC=66;AF=1.00;AN=66;DP=305;FS=0.0
40628	chrY	17226779	.	A	G	1616.74	PASS	AC=6;AF=0.300;AN=20;DP=189;FS=0.0
40629	chrY	17229713	.	T	G	5084.25	PASS	AC=48;AF=0.800;AN=60;DP=279;FS=0.
40630	chrY	17230585	.	T	C	1431.18	PASS	AC=6;AF=0.333;AN=18;DP=173;FS=0.0
40631	chrY	17233615	.	G	A	167.81	PASS	AC=2;AF=0.029;AN=70;DP=296;FS=0.0
40632	chrY	17245963	.	T	G	210.09	PASS	AC=2;AF=0.111;AN=18;DP=166;FS=0.0
40633	chrY	17246175	.	C	G	1918.84	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
40634	chrY	17252323	.	G	A	1104.58	PASS	AC=6;AF=0.088;AN=68;DP=380;FS=0.0
40635	chrY	17254423	.	C	T	1175.68	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.0
40636	chrY	17256018	.	T	C	7408.10	PASS	AC=56;AF=0.824;AN=68;DP=317;FS=0.
40637	chrY	17267277	.	T	G	4516.97	PASS	AC=20;AF=1.00;AN=20;DP=173;FS=0.0
40638	chrY	17268266	.	G	T	2533.18	PASS	AC=12;AF=0.667;AN=18;DP=158;FS=0.
40639	chrY	17268879	.	T	A	1772.18	PASS	AC=6;AF=0.333;AN=18;DP=186;FS=0.0
40640	chrY	17270957	.	A	C	3866.01	PASS	AC=46;AF=0.719;AN=64;DP=256;FS=0.
40641	chrY	17271875	.	A	C	1074.57	PASS	AC=6;AF=0.086;AN=70;DP=343;FS=0.0
40642	chrY	17273922	.	G	A	1558.12	PASS	AC=6;AF=0.086;AN=70;DP=706;FS=0.0
40643	chrY	17275703	.	A	G	2554.09	PASS	AC=22;AF=1.00;AN=22;DP=115;FS=0.0
40644	chrY	17277520	.	C	T	49.25	PASS	AC=2;AF=0.029;AN=68;DP=291;FS=0.0
40645	chrY	17281258	.	G	T,*	4852.21	PASS	AC=42,2;AF=0.955,0.045;AN=44;DP=1
40646	chrY	17285531	.	A	C	281.49	PASS	AC=2;AF=0.029;AN=70;DP=276;FS=0.0
40647	chrY	17285993	.	T	C	8472.03	PASS	AC=66;AF=1.00;AN=66;DP=291;FS=0.0
40648	chrY	17286006	.	A	C	4634.30	PASS	AC=48;AF=0.727;AN=66;DP=305;FS=0.
40649	chrY	17293267	.	T	G	33.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40650	chrY	17293933	.	G	A	5709.33	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum=
40651	chrY	17298476	.	C	A	1635.55	PASS	AC=6;AF=0.086;AN=70;DP=481;FS=0.0
40652	chrY	17299199	.	A	C	4337.16	PASS	AC=43;AF=0.694;AN=62;BaseQRankSum=
40653	chrY	17300645	.	C	A	1390.87	PASS	AC=6;AF=0.333;AN=18;DP=128;FS=0.0
40654	chrY	17301262	.	G	A	95	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
40655	chrY	17301267	.	G	A	43.28	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
40656	chrY	17301401	.	A	G	14730.93	PASS	AC=70;AF=1.00;AN=70;DP=49
40657	chrY	17307256	.	T	C	643.69	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
40658	chrY	17307261	.	T	C	647.54	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
40659	chrY	17307420	.	G	A	462.09	PASS	AC=2;AF=0.032;AN=62;DP=211;FS=0.0
40660	chrY	17309013	.	T	C	591.47	PASS	AC=6;AF=0.103;AN=58;DP=178;FS=0.0

40661	chrY	17309455	.	G	A	858.61	PASS	AC=6;AF=0.088;AN=68;DP=496;FS=0.0
40662	chrY	17311975	.	C	G	5426.28	PASS	AC=56;AF=0.824;AN=68;DP=256;FS=0.
40663	chrY	17314435	.	G	A	915.63	PASS	AC=6;AF=0.086;AN=70;DP=453;FS=0.0
40664	chrY	17319340	.	T	C	874.21	PASS	AC=2;AF=0.029;AN=70;DP=557;FS=0.0
40665	chrY	17322546	.	G	A	207.45	PASS	AC=2;AF=0.029;AN=70;DP=684;FS=0.0
40666	chrY	17323414	.	A	G	40.47	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
40667	chrY	17323420	.	G	A	35.54	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
40668	chrY	17323793	.	G	C	474.66	PASS	AC=6;AF=0.158;AN=38;DP=136;FS=0.0
40669	chrY	17324032	.	C	A	68.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40670	chrY	17324038	.	A	G	43.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40671	chrY	17324039	.	G	C	37.73	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
40672	chrY	17328425	.	C	T	8519.58	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum=
40673	chrY	17330136	.	A	T	1046.38	PASS	AC=6;AF=0.158;AN=38;BaseQRankSum=
40674	chrY	17331881	.	C	A	1087.75	PASS	AC=6;AF=0.086;AN=70;DP=597;FS=0.0
40675	chrY	17332858	.	A	G	464.89	PASS	AC=6;AF=0.088;AN=68;DP=333;FS=0.0
40676	chrY	17334694	.	T	G	6499.11	PASS	AC=58;AF=0.967;AN=60;DP=236;FS=0.
40677	chrY	17338843	.	G	A	551.34	PASS	AC=2;AF=0.029;AN=70;DP=603;FS=0.0
40678	chrY	17341195	.	G	T	13574.04	PASS	AC=52;AF=0.743;AN=70;DP=6
40679	chrY	17341271	.	A	T	1243.58	PASS	AC=6;AF=0.086;AN=70;DP=525;FS=0.0
40680	chrY	17341676	.	G	A	13077.90	PASS	AC=68;AF=1.00;AN=68;BaseQ
40681	chrY	17342227	.	G	C	877.87	PASS	AC=6;AF=0.086;AN=70;DP=480;FS=0.0
40682	chrY	17349942	.	A	G	533.44	PASS	AC=2;AF=0.029;AN=70;DP=574;FS=0.0
40683	chrY	17358069	.	G	A	1286.07	PASS	AC=6;AF=0.088;AN=68;DP=504;FS=0.0
40684	chrY	17359042	.	A	T	30.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40685	chrY	17359052	.	A	G	33.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40686	chrY	17359530	.	T	C	84.56	PASS	AC=2;AF=0.029;AN=70;DP=271;FS=0.0
40687	chrY	17360185	.	G	T	511.32	PASS	AC=2;AF=0.029;AN=70;DP=552;FS=0.0
40688	chrY	17364455	.	G	T	779.09	PASS	AC=6;AF=0.088;AN=68;DP=387;FS=0.0
40689	chrY	17367377	.	C	T	1097.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
40690	chrY	17368851	.	A	G	404.72	PASS	AC=2;AF=0.029;AN=70;DP=527;FS=0.0
40691	chrY	17374007	.	T	G	13901.95	PASS	AC=70;AF=1.00;AN=70;BaseQ
40692	chrY	17375556	.	C	T	237.98	PASS	AC=2;AF=0.029;AN=68;DP=385;FS=0.0
40693	chrY	17376528	.	G	A	1491.05	PASS	AC=6;AF=0.086;AN=70;DP=617;FS=0.0
40694	chrY	17382723	.	C	T	3384.06	PASS	AC=42;AF=0.636;AN=66;DP=274;FS=0.
40695	chrY	17384938	.	A	T	1493.05	PASS	AC=6;AF=0.088;AN=68;DP=535;FS=0.0
40696	chrY	17386294	.	A	G	1245.85	PASS	AC=6;AF=0.086;AN=70;DP=394;FS=0.0
40697	chrY	17386406	.	A	G	905.65	PASS	AC=6;AF=0.088;AN=68;DP=560;FS=0.0
40698	chrY	17389382	.	A	G	35.58	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
40699	chrY	17389393	.	T	C	35.43	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
40700	chrY	17396108	.	T	C	158.26	PASS	AC=2;AF=0.029;AN=70;DP=382;FS=0.0
40701	chrY	17396832	.	C	A	999.59	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.0
40702	chrY	17397645	.	C	T	10791.04	PASS	AC=66;AF=1.00;AN=66;DP=37
40703	chrY	17398598	.	T	C	8166.47	PASS	AC=58;AF=0.829;AN=70;DP=383;FS=0.
40704	chrY	17399444	.	G	T	1309.92	PASS	AC=6;AF=0.086;AN=70;DP=450;FS=0.0
40705	chrY	17400785	.	A	G	5597.24	PASS	AC=56;AF=1.00;AN=56;DP=251;FS=0.0
40706	chrY	17406441	.	C	A	1036.11	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
40707	chrY	17406793	.	A	G	777.94	PASS	AC=6;AF=0.086;AN=70;DP=324;FS=0.0
40708	chrY	17410206	.	C	T	895.43	PASS	AC=6;AF=0.088;AN=68;DP=371;FS=0.0
40709	chrY	17412198	.	T	C	4692.06	PASS	AC=50;AF=0.806;AN=62;DP=266;FS=0.
40710	chrY	17412741	.	T	G	488.52	PASS	AC=6;AF=0.088;AN=68;DP=368;FS=0.0
40711	chrY	17418386	.	G	C	1097.96	PASS	AC=6;AF=0.086;AN=70;DP=585;FS=0.0
40712	chrY	17424798	.	C	T	185.20	PASS	AC=2;AF=0.029;AN=70;DP=573;FS=0.0
40713	chrY	17429560	.	C	T	557.80	PASS	AC=6;AF=0.086;AN=70;DP=402;FS=0.0
40714	chrY	17429912	.	A	T	639.20	PASS	AC=2;AF=0.083;AN=24;DP=166;FS=0.0
40715	chrY	17431387	.	C	T	1229.96	PASS	AC=6;AF=0.086;AN=70;DP=351;FS=0.0
40716	chrY	17434784	.	T	C	831.69	PASS	AC=6;AF=0.086;AN=70;DP=496;FS=0.0
40717	chrY	17436057	.	A	G	12467.51	PASS	AC=50;AF=0.735;AN=68;DP=6
40718	chrY	17436821	.	C	A	262.50	PASS	AC=4;AF=0.059;AN=68;DP=362;FS=0.0
40719	chrY	17440195	.	C	T	1130.42	PASS	AC=6;AF=0.086;AN=70;DP=535;FS=0.0
40720	chrY	17444848	.	G	C	349.26	PASS	AC=2;AF=0.029;AN=70;DP=629;FS=0.0
40721	chrY	17445733	.	C	T	999.77	PASS	AC=6;AF=0.091;AN=66;DP=359;FS=0.0
40722	chrY	17452496	.	G	A	356.27	PASS	AC=2;AF=0.040;AN=50;DP=205;FS=0.0
40723	chrY	17456014	.	C	G	464.76	PASS	AC=6;AF=0.086;AN=70;DP=528;FS=0.0
40724	chrY	17457010	.	C	T	18234.70	PASS	AC=52;AF=0.743;AN=70;DP=7
40725	chrY	17460519	.	A	G	241.40	PASS	AC=2;AF=0.029;AN=70;DP=640;FS=0.0
40726	chrY	17461478	.	C	T	12103.99	PASS	AC=66;AF=1.00;AN=66;DP=40
40727	chrY	17462124	.	A	G	1378.97	PASS	AC=6;AF=0.115;AN=52;DP=193;FS=0.0
40728	chrY	17464197	.	C	T	13754.92	PASS	AC=58;AF=0.829;AN=70;DP=5
40729	chrY	17464651	.	G	A	663.06	PASS	AC=6;AF=0.086;AN=70;DP=426;FS=0.0
40730	chrY	17464987	.	G	C	738.55	PASS	AC=6;AF=0.088;AN=68;DP=413;FS=0.0
40731	chrY	17466722	.	T	C	46.26	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40732	chrY	17466724	.	A	T	46.89	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40733	chrY	17468144	.	A	G	613.35	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.0
40734	chrY	17470112	.	A	G	17910.96	PASS	AC=70;AF=1.00;AN=70;DP=59
40735	chrY	17473622	.	T	A	433.08	PASS	AC=2;AF=0.048;AN=42;DP=145;FS=0.0
40736	chrY	17478208	.	C	T	1290.78	PASS	AC=6;AF=0.086;AN=70;DP=498;FS=0.0

40737	chrY	17479395	.	C	G	648.41	PASS	AC=6;AF=0.115;AN=52;DP=211;FS=0.0
40738	chrY	17480413	.	G	C	12317.09	PASS	AC=44;AF=0.647;AN=68;DP=5
40739	chrY	17482729	.	C	A	3255.01	PASS	AC=42;AF=0.636;AN=66;DP=254;FS=0.
40740	chrY	17486536	.	T	C	1027.19	PASS	AC=6;AF=0.086;AN=70;DP=601;FS=0.0
40741	chrY	17492573	.	T	G	533.48	PASS	AC=2;AF=0.029;AN=70;DP=487;FS=0.0
40742	chrY	17493513	.	T	C	8672.94	PASS	AC=56;AF=0.824;AN=68;DP=390;FS=0.
40743	chrY	17493725	.	G	C	289.67	PASS	AC=4;AF=0.059;AN=68;DP=385;FS=0.0
40744	chrY	17495224	.	A	T	10288.10	PASS	AC=52;AF=0.743;AN=70;DP=4
40745	chrY	17500841	.	G	A	36.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40746	chrY	17502468	.	T	C	21878.92	PASS	AC=70;AF=1.00;AN=70;DP=73
40747	chrY	17505429	.	C	T	225.30	PASS	AC=2;AF=0.031;AN=64;DP=441;FS=0.0
40748	chrY	17508337	.	T	C	12249.90	PASS	AC=70;AF=1.00;AN=70;DP=41
40749	chrY	17509176	.	C	T	874.32	PASS	AC=6;AF=0.088;AN=68;DP=415;FS=0.0
40750	chrY	17509926	.	C	T	1873.60	PASS	AC=6;AF=0.086;AN=70;DP=560;FS=0.0
40751	chrY	17509927	.	T	A	1873.60	PASS	AC=6;AF=0.086;AN=70;DP=560;FS=0.0
40752	chrY	17509929	.	G	A	1873.51	PASS	AC=6;AF=0.086;AN=70;DP=560;FS=0.0
40753	chrY	17510269	.	C	T	263.26	PASS	AC=2;AF=0.030;AN=66;DP=485;FS=0.0
40754	chrY	17510288	.	A	G	1101.09	PASS	AC=6;AF=0.091;AN=66;DP=491;FS=0.0
40755	chrY	17510402	.	C	G	10100.43	PASS	AC=54;AF=0.818;AN=66;DP=4
40756	chrY	17511078	.	G	T	471.53	PASS	AC=6;AF=0.086;AN=70;DP=433;FS=0.0
40757	chrY	17513375	.	G	T	1510.75	PASS	AC=6;AF=0.086;AN=70;DP=393;FS=0.0
40758	chrY	17514328	.	G	A	1148.20	PASS	AC=6;AF=0.086;AN=70;DP=400;FS=0.0
40759	chrY	17517054	.	T	A	480.67	PASS	AC=2;AF=0.029;AN=70;DP=412;FS=0.0
40760	chrY	17523884	.	C	G	1002.20	PASS	AC=6;AF=0.333;AN=18;DP=159;FS=0.0
40761	chrY	17525398	.	A	C	1186.41	PASS	AC=6;AF=0.088;AN=68;DP=339;FS=0.0
40762	chrY	17526503	.	G	A	9581.27	PASS	AC=50;AF=0.735;AN=68;DP=457;FS=0.0
40763	chrY	17529945	.	G	A	899.47	PASS	AC=6;AF=0.086;AN=70;DP=290;FS=0.0
40764	chrY	17533118	.	A	G	768.97	PASS	AC=6;AF=0.086;AN=70;DP=458;FS=0.0
40765	chrY	17533255	.	G	A	1080.81	PASS	AC=6;AF=0.086;AN=70;DP=611;FS=0.0
40766	chrY	17534389	.	A	T,*	1600.86	PASS	AC=29,2;AF=0.630,0.043;AN=46;Base
40767	chrY	17535032	.	A	G	1230.23	PASS	AC=6;AF=0.086;AN=70;DP=466;FS=0.0
40768	chrY	17535297	.	C	A	2320.58	PASS	AC=6;AF=0.086;AN=70;DP=521;FS=0.0
40769	chrY	17537568	.	C	A	535.94	PASS	AC=2;AF=0.029;AN=68;DP=424;FS=0.0
40770	chrY	17542867	.	C	A	82.30	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40771	chrY	17542869	.	T	C	81.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40772	chrY	17542877	.	G	A	85.28	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40773	chrY	17542919	.	A	G	84.47	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40774	chrY	17542923	.	A	C	87.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
40775	chrY	17544876	.	C	T	1209.98	PASS	AC=6;AF=0.086;AN=70;DP=718;FS=0.0
40776	chrY	17545328	.	C	T	1113.80	PASS	AC=6;AF=0.086;AN=70;DP=374;FS=0.0
40777	chrY	17545608	.	T	G	4065.19	PASS	AC=32;AF=1.00;AN=32;DP=170;FS=0.0
40778	chrY	17546158	.	G	T	154.35	PASS	AC=4;AF=0.063;AN=64;DP=343;FS=0.0
40779	chrY	17550757	.	A	G	45.84	PASS	AC=2;AF=0.029;AN=70;DP=571;FS=0.0
40780	chrY	17550782	.	A	G	45.84	PASS	AC=2;AF=0.029;AN=70;DP=553;FS=0.0
40781	chrY	17551116	.	C	T	2938.32	PASS	AC=12;AF=0.171;AN=70;DP=602;FS=0.
40782	chrY	17557314	.	G	A	1188.86	PASS	AC=6;AF=0.188;AN=32;DP=147;FS=0.0
40783	chrY	17557999	.	A	G	252.90	PASS	AC=6;AF=0.088;AN=68;DP=334;FS=0.0
40784	chrY	17558158	.	G	A	480.05	PASS	AC=2;AF=0.029;AN=68;DP=281;FS=0.0
40785	chrY	17559652	.	C	T	6862.14	PASS	AC=62;AF=1.00;AN=62;DP=238;FS=0.0
40786	chrY	17567396	.	C	T	1087.79	PASS	AC=6;AF=0.086;AN=70;DP=415;FS=0.0
40787	chrY	17568340	.	T	C	801.11	PASS	AC=6;AF=0.100;AN=60;DP=308;FS=0.0
40788	chrY	17580090	.	C	T	270.90	PASS	AC=2;AF=0.030;AN=66;DP=300;FS=0.0
40789	chrY	17581577	.	G	A	1077.76	PASS	AC=6;AF=0.086;AN=70;DP=557;FS=0.0
40790	chrY	17581836	.	A	G	5722.26	PASS	AC=42;AF=0.636;AN=66;DP=370;FS=0
40791	chrY	17589518	.	T	C	6496.13	PASS	AC=66;AF=1.00;AN=66;DP=267;FS=0.0
40792	chrY	17594966	.	G	C	11194.01	PASS	AC=68;AF=1.00;AN=68;DP=38
40793	chrY	17595050	.	C	G	171.50	PASS	AC=2;AF=0.029;AN=70;DP=364;FS=0.0
40794	chrY	17595451	.	C	A	976.64	PASS	AC=6;AF=0.086;AN=70;DP=580;FS=0.0
40795	chrY	17595603	.	T	C	1107.09	PASS	AC=6;AF=0.086;AN=70;DP=562;FS=0.0
40796	chrY	17597179	.	C	T	51.25	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
40797	chrY	17606096	.	G	A	1924.02	PASS	AC=6;AF=0.086;AN=70;DP=680;FS=0.0
40798	chrY	17610245	.	T	A	1431.21	PASS	AC=6;AF=0.086;AN=70;DP=441;FS=0.0
40799	chrY	17610570	.	C	T	910.45	PASS	AC=6;AF=0.086;AN=70;DP=583;FS=0.0
40800	chrY	17615618	.	C	A	1383.67	PASS	AC=6;AF=0.086;AN=70;DP=272;FS=0.0
40801	chrY	17615937	.	T	C	350.71	PASS	AC=2;AF=0.029;AN=70;DP=385;FS=0.0
40802	chrY	17618521	.	G	A	1414.96	PASS	AC=6;AF=0.273;AN=22;DP=184;FS=0.0
40803	chrY	17620544	.	A	T	1596.65	PASS	AC=6;AF=0.273;AN=22;DP=166;FS=0.0
40804	chrY	17621013	.	T	C	38.01	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
40805	chrY	17625145	.	C	G	1048.52	PASS	AC=6;AF=0.086;AN=70;DP=465;FS=0.0
40806	chrY	17627976	.	A	G	240.02	PASS	AC=2;AF=0.111;AN=18;DP=179;FS=0.0
40807	chrY	17630545	.	T	C	31.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40808	chrY	17635466	.	G	A	4848.34	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum=
40809	chrY	17642615	.	T	C	343	PASS	AC=2;AF=0.029;AN=68;DP=382;FS=0.0
40810	chrY	17643584	.	C	T	4884.76	PASS	AC=12;AF=0.545;AN=22;DP=180;FS=0.
40811	chrY	17643607	.	G	A	4931.32	PASS	AC=12;AF=0.500;AN=24;DP=181;FS=0.
40812	chrY	17645869	.	C	T	271.47	PASS	AC=2;AF=0.029;AN=70;DP=425;FS=0.0

40813	chrY	17648352	.	C	A	41.38	PASS	AC=2;AF=0.100;AN=20;DP=139;FS=0.0
40814	chrY	17656713	.	G	C	814.08	PASS	AC=6;AF=0.086;AN=70;DP=565;FS=0.0
40815	chrY	17656766	.	A	G	550.15	PASS	AC=6;AF=0.086;AN=70;DP=540;FS=0.0
40816	chrY	17657250	.	A	T	546.24	PASS	AC=2;AF=0.029;AN=70;DP=486;FS=0.0
40817	chrY	17659786	.	T	C	393.46	PASS	AC=6;AF=0.086;AN=70;DP=338;FS=0.0
40818	chrY	17660074	.	T	G	11651.93	PASS	AC=56;AF=0.824;AN=68;DP=4
40819	chrY	17662486	.	T	C	704.76	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
40820	chrY	17663864	.	C	A	11029.80	PASS	AC=46;AF=0.657;AN=70;Base
40821	chrY	17665849	.	C	G	1246.23	PASS	AC=6;AF=0.086;AN=70;DP=385;FS=0.0
40822	chrY	17668868	.	G	T	281.99	PASS	AC=2;AF=0.029;AN=70;DP=360;FS=0.0
40823	chrY	17670031	.	A	T	856.92	PASS	AC=6;AF=0.088;AN=68;DP=282;FS=0.0
40824	chrY	17672182	.	T	A	352.43	PASS	AC=4;AF=0.059;AN=68;DP=422;FS=0.0
40825	chrY	17673490	.	A	G	439.85	PASS	AC=6;AF=0.086;AN=70;DP=469;FS=0.0
40826	chrY	17684085	.	A	T	67.01	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40827	chrY	17684089	.	G	A	66.87	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40828	chrY	17685931	.	T	C	2372.04	PASS	AC=30;AF=0.556;AN=54;DP=266;FS=0.0
40829	chrY	17686819	.	T	C	960.80	PASS	AC=6;AF=0.086;AN=70;DP=381;FS=0.0
40830	chrY	17687741	.	C	T	938.12	PASS	AC=6;AF=0.086;AN=70;DP=630;FS=0.0
40831	chrY	17689245	.	T	C	5730.41	PASS	AC=54;AF=0.818;AN=66;DP=297;FS=0.0
40832	chrY	17690901	.	T	G	1131.56	PASS	AC=6;AF=0.086;AN=70;DP=477;FS=0.0
40833	chrY	17691171	.	A	G	311.75	PASS	AC=2;AF=0.033;AN=60;DP=219;FS=0.0
40834	chrY	17692975	.	C	T	1672.10	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.0
40835	chrY	17696029	.	T	C	34.54	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40836	chrY	17696030	.	A	T	34.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
40837	chrY	17697807	.	C	T	4200.86	PASS	AC=18;AF=1.00;AN=18;DP=159;FS=0.0
40838	chrY	17709870	.	C	G	262.28	PASS	AC=2;AF=0.029;AN=70;DP=457;FS=0.0
40839	chrY	17710924	.	C	T	1234.05	PASS	AC=6;AF=0.088;AN=68;DP=343;FS=0.0
40840	chrY	17714662	.	A	G	427.69	PASS	AC=2;AF=0.029;AN=68;DP=427;FS=0.0
40841	chrY	17716251	.	T	C	6721.09	PASS	AC=44;AF=1.00;AN=44;DP=241;FS=0.0
40842	chrY	17717633	.	G	T	299.74	PASS	AC=2;AF=0.029;AN=70;DP=389;FS=0.0
40843	chrY	17720134	.	A	T	632.60	PASS	AC=6;AF=0.088;AN=68;DP=415;FS=0.0
40844	chrY	17722802	.	A	G	8124.12	PASS	AC=64;AF=1.00;AN=64;DP=283;FS=0.0
40845	chrY	17723403	.	G	A	1023.47	PASS	AC=8;AF=0.400;AN=20;DP=146;FS=0.0
40846	chrY	17723850	.	T	C	4385.06	PASS	AC=22;AF=1.00;AN=22;DP=163;FS=0.0
40847	chrY	17726102	.	C	A	1295.75	PASS	AC=6;AF=0.300;AN=20;DP=167;FS=0.0
40848	chrY	17726250	.	G	T	4193.86	PASS	AC=18;AF=1.00;AN=18;DP=169;FS=0.0
40849	chrY	17726918	.	C	A	1426.75	PASS	AC=6;AF=0.300;AN=20;DP=196;FS=0.0
40850	chrY	17727666	.	G	T	865.22	PASS	AC=6;AF=0.333;AN=18;DP=130;FS=0.0
40851	chrY	17731050	.	T	A	31.81	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
40852	chrY	17731051	.	C	A	33.51	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
40853	chrY	17731053	.	G	A	32.77	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
40854	chrY	17731966	.	G	A	1975.45	PASS	AC=26;AF=0.433;AN=60;DP=251;FS=0.0
40855	chrY	17732408	.	C	T	9069.17	PASS	AC=66;AF=1.00;AN=66;DP=321;FS=0.0
40856	chrY	17732587	.	C	A	2670.77	PASS	AC=12;AF=0.500;AN=24;DP=173;FS=0.0
40857	chrY	17733547	.	G	A	636.53	PASS	AC=6;AF=0.333;AN=18;DP=95;FS=0.00
40858	chrY	17735413	.	G	A	1192.91	PASS	AC=6;AF=0.120;AN=50;DP=188;FS=0.0
40859	chrY	17739376	.	G	A	1274.49	PASS	AC=6;AF=0.088;AN=68;DP=351;FS=0.0
40860	chrY	17742266	.	A	C	1181.08	PASS	AC=6;AF=0.086;AN=70;DP=465;FS=0.0
40861	chrY	17747644	.	C	A	1286.45	PASS	AC=6;AF=0.086;AN=70;DP=274;FS=0.0
40862	chrY	17748163	.	T	C	5246.73	PASS	AC=48;AF=0.727;AN=66;DP=339;FS=0.0
40863	chrY	17754738	.	A	T	64.91	PASS	AC=2;AF=0.029;AN=68;DP=374;FS=0.0
40864	chrY	17755905	.	A	G	6753.12	PASS	AC=62;AF=1.00;AN=62;DP=236;FS=0.0
40865	chrY	17756426	.	A	T	1029.04	PASS	AC=6;AF=0.088;AN=68;DP=542;FS=0.0
40866	chrY	17762091	.	C	T	1554.92	PASS	AC=6;AF=0.086;AN=70;DP=372;FS=0.0
40867	chrY	17762668	.	C	T	13838.22	PASS	AC=55;AF=0.809;AN=68;Base
40868	chrY	17770379	.	C	A	1011	PASS	AC=6;AF=0.086;AN=70;DP=428;FS=0.0
40869	chrY	17772838	.	A	G	608.03	PASS	AC=6;AF=0.086;AN=70;DP=436;FS=0.0
40870	chrY	17781687	.	T	C	630.98	PASS	AC=8;AF=0.400;AN=20;DP=118;FS=0.0
40871	chrY	17782178	.	G	C	8385.11	PASS	AC=68;AF=1.00;AN=68;DP=303;FS=0.0
40872	chrY	17785901	.	C	T	30.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40873	chrY	17791140	.	C	G	423.66	PASS	AC=4;AF=0.059;AN=68;DP=402;FS=0.0
40874	chrY	17791990	.	C	G	1208.09	PASS	AC=6;AF=0.086;AN=70;DP=657;FS=0.0
40875	chrY	17792483	.	T	G	488.72	PASS	AC=6;AF=0.086;AN=70;DP=512;FS=0.0
40876	chrY	17794253	.	G	T,*	2169.68	PASS	AC=6,10;AF=0.333,0.556;AN=18;DP=8
40877	chrY	17796093	.	A	G	1199.18	PASS	AC=6;AF=0.333;AN=18;DP=161;FS=0.0
40878	chrY	17796967	.	T	C	811.82	PASS	AC=6;AF=0.300;AN=20;DP=152;FS=0.0
40879	chrY	17800729	.	T	A	982.65	PASS	AC=6;AF=0.086;AN=70;DP=341;FS=0.0
40880	chrY	17800868	.	T	G	1160.56	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.0
40881	chrY	17800918	.	G	A	6292.36	PASS	AC=46;AF=0.657;AN=70;DP=367;FS=0.0
40882	chrY	17803021	.	A	G	1238.22	PASS	AC=6;AF=0.086;AN=70;DP=592;FS=0.0
40883	chrY	17803867	.	T	C	1744.55	PASS	AC=4;AF=0.057;AN=70;DP=618;FS=0.0
40884	chrY	17807620	.	T	A	382.52	PASS	AC=2;AF=0.029;AN=70;DP=351;FS=0.0
40885	chrY	17809157	.	T	C	1445.17	PASS	AC=6;AF=0.086;AN=70;DP=526;FS=0.0
40886	chrY	17810927	.	G	A	1590.95	PASS	AC=6;AF=0.086;AN=70;DP=669;FS=0.0
40887	chrY	17813541	.	T	C	3766.87	PASS	AC=18;AF=1.00;AN=18;DP=145;FS=0.0
40888	chrY	17816063	.	T	A	697.73	PASS	AC=16;AF=1.00;AN=16;DP=27;FS=0.00

40889	chrY	17819026	.	C	T	1613.21	PASS	AC=6;AF=0.086;AN=70;DP=371;FS=0.0
40890	chrY	17819955	.	G	A	443.90	PASS	AC=6;AF=0.115;AN=52;DP=114;FS=0.0
40891	chrY	17820514	.	C	T	12355.18	PASS	AC=48;AF=0.727;AN=66;DP=5
40892	chrY	17822719	.	T	G	891.33	PASS	AC=6;AF=0.333;AN=18;DP=157;FS=0.0
40893	chrY	17829115	.	G	C	419.75	PASS	AC=2;AF=0.100;AN=20;DP=178;FS=0.0
40894	chrY	17833394	.	T	C	2363.47	PASS	AC=30;AF=0.625;AN=48;DP=211;FS=0.0
40895	chrY	17839184	.	C	T	1360.63	PASS	AC=6;AF=0.273;AN=22;DP=192;FS=0.0
40896	chrY	17839800	.	C	T	464.26	PASS	AC=2;AF=0.083;AN=24;DP=159;FS=0.0
40897	chrY	17839981	.	A	G	2851.97	PASS	AC=20;AF=1.00;AN=20;DP=194;FS=0.0
40898	chrY	17840021	.	G	A	705.20	PASS	AC=2;AF=0.083;AN=24;DP=212;FS=0.0
40899	chrY	17840163	.	C	T	1358.98	PASS	AC=30;AF=0.625;AN=48;DP=225;FS=0.0
40900	chrY	17840282	.	G	A	567.46	PASS	AC=2;AF=0.029;AN=70;DP=406;FS=0.0
40901	chrY	17842686	.	T	G	38.50	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
40902	chrY	17844001	.	T	C	498.62	PASS	AC=4;AF=0.059;AN=68;DP=513;FS=0.0
40903	chrY	17844018	.	C	T	15279.89	PASS	AC=68;AF=1.00;AN=68;BaseQ
40904	chrY	17844781	.	C	G	12509.92	PASS	AC=70;AF=1.00;AN=70;DP=43
40905	chrY	17848615	.	A	T	33.79	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40906	chrY	17848622	.	C	A	33.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
40907	chrY	17851862	.	C	T	1245.64	PASS	AC=30;AF=0.625;AN=48;DP=183;FS=0.0
40908	chrY	17853198	.	C	T	5502.06	PASS	AC=36;AF=0.545;AN=66;DP=360;FS=0.0
40909	chrY	17854551	.	A	G	1223.75	PASS	AC=6;AF=0.300;AN=20;DP=149;FS=0.0
40910	chrY	17855267	.	T	C	1312.09	PASS	AC=6;AF=0.250;AN=24;DP=177;FS=0.0
40911	chrY	17856975	.	C	G	1305.49	PASS	AC=6;AF=0.273;AN=22;DP=183;FS=0.0
40912	chrY	17859665	.	C	T	343.72	PASS	AC=2;AF=0.029;AN=70;DP=482;FS=0.0
40913	chrY	17860352	.	C	G	1191.19	PASS	AC=6;AF=0.086;AN=70;DP=774;FS=0.0
40914	chrY	17860729	.	A	G	12498.98	PASS	AC=68;AF=1.00;AN=68;BaseQ
40915	chrY	17863898	.	A	G	398.17	PASS	AC=6;AF=0.086;AN=70;DP=310;FS=0.0
40916	chrY	17864392	.	A	T	8029.59	PASS	AC=44;AF=0.647;AN=68;DP=416;FS=0.0
40917	chrY	17866037	.	A	G	891.29	PASS	AC=6;AF=0.107;AN=56;DP=163;FS=0.0
40918	chrY	17867916	.	C	T	60.56	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
40919	chrY	17868314	.	G	A	307.05	PASS	AC=2;AF=0.029;AN=70;DP=513;FS=0.0
40920	chrY	17868374	.	C	T	345.32	PASS	AC=2;AF=0.029;AN=70;DP=579;FS=0.0
40921	chrY	17877485	.	T	C	3886.38	PASS	AC=46;AF=0.719;AN=64;DP=254;FS=0.0
40922	chrY	17879035	.	C	A	1124.10	PASS	AC=6;AF=0.086;AN=70;DP=558;FS=0.0
40923	chrY	17879785	.	C	G	1144.76	PASS	AC=6;AF=0.086;AN=70;DP=426;FS=0.0
40924	chrY	17881230	.	C	G	9732.96	PASS	AC=66;AF=1.00;AN=66;DP=337;FS=0.0
40925	chrY	17882541	.	G	T	1105.60	PASS	AC=6;AF=0.086;AN=70;DP=579;FS=0.0
40926	chrY	17883221	.	G	A	4865.48	PASS	AC=48;AF=0.727;AN=66;DP=348;FS=0.0
40927	chrY	17888282	.	G	T	39.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40928	chrY	17888291	.	G	A	36.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
40929	chrY	17891210	.	T	G	1299.79	PASS	AC=6;AF=0.088;AN=68;DP=412;FS=0.0
40930	chrY	17891505	.	C	T	397.68	PASS	AC=2;AF=0.029;AN=68;DP=379;FS=0.0
40931	chrY	17896075	.	G	A	295.32	PASS	AC=2;AF=0.032;AN=62;DP=243;FS=0.0
40932	chrY	17899464	.	A	G	1115.28	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
40933	chrY	17899805	.	A	G	1639.18	PASS	AC=6;AF=0.333;AN=18;DP=173;FS=0.0
40934	chrY	17901907	.	C	A	211.14	PASS	AC=2;AF=0.111;AN=18;DP=147;FS=0.0
40935	chrY	17903050	.	C	T	593.47	PASS	AC=2;AF=0.091;AN=22;DP=188;FS=0.0
40936	chrY	17903269	.	G	A	289.80	PASS	AC=4;AF=0.061;AN=66;DP=280;FS=0.0
40937	chrY	17907368	.	T	C	3844.93	PASS	AC=50;AF=0.735;AN=68;DP=281;FS=0.0
40938	chrY	17908393	.	T	C	337.20	PASS	AC=4;AF=0.057;AN=70;DP=331;FS=0.0
40939	chrY	17909688	.	C	T	68.10	PASS	AC=2;AF=0.029;AN=70;DP=488;FS=0.0
40940	chrY	17909881	.	A	G	2860.98	PASS	AC=12;AF=0.176;AN=68;DP=353;FS=0.0
40941	chrY	17913484	.	C	T	3536.90	PASS	AC=36;AF=0.545;AN=66;DP=317;FS=0.0
40942	chrY	17914187	.	G	A	343.20	PASS	AC=6;AF=0.097;AN=62;DP=129;FS=0.0
40943	chrY	17917010	.	G	A	1457.78	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.0
40944	chrY	17920486	.	G	A	1198.86	PASS	AC=6;AF=0.086;AN=70;DP=620;FS=0.0
40945	chrY	17924152	.	A	T	30.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40946	chrY	17924762	.	T	A	11496.67	PASS	AC=50;AF=0.735;AN=68;DP=5
40947	chrY	17926690	.	T	C	1124.50	PASS	AC=6;AF=0.086;AN=70;DP=427;FS=0.0
40948	chrY	17930099	.	A	C	9086.07	PASS	AC=64;AF=1.00;AN=64;BaseQRankSum=
40949	chrY	17931211	.	G	A	357.88	PASS	AC=6;AF=0.097;AN=62;DP=221;FS=0.0
40950	chrY	17931232	.	C	A	33.73	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
40951	chrY	17931246	.	G	A	37.35	PASS	AC=2;AF=0.034;AN=58;DP=199;FS=0.0
40952	chrY	17932763	.	T	C	4054.87	PASS	AC=18;AF=1.00;AN=18;DP=183;FS=0.0
40953	chrY	17934124	.	G	A	5150.55	PASS	AC=48;AF=0.727;AN=66;BaseQRankSum=
40954	chrY	17936756	.	G	T	44.75	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
40955	chrY	17936764	.	A	T	41.63	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
40956	chrY	17940247	.	G	A	70.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40957	chrY	17940250	.	A	G	70.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
40958	chrY	17940792	.	T	C	792.71	PASS	AC=6;AF=0.214;AN=28;DP=122;FS=0.0
40959	chrY	17941969	.	G	A	513.27	PASS	AC=4;AF=0.059;AN=68;DP=260;FS=0.0
40960	chrY	17942143	.	A	G	2092.87	PASS	AC=16;AF=1.00;AN=16;DP=111;FS=0.0
40961	chrY	17942517	.	T	C	673.71	PASS	AC=6;AF=0.088;AN=68;DP=352;FS=0.0
40962	chrY	17942987	.	T	G	608.50	PASS	AC=6;AF=0.088;AN=68;DP=316;FS=0.0
40963	chrY	17947171	.	C	T	905.83	PASS	AC=6;AF=0.086;AN=70;DP=299;FS=0.0
40964	chrY	17947454	.	A	T	13600.18	PASS	AC=52;AF=0.743;AN=70;DP=5

40965	chrY	17947542	.	C	T	3155.59	PASS	AC=43;AF=0.694;AN=62;BaseQRankSum
40966	chrY	17951267	.	C	A	5070.23	PASS	AC=64;AF=1.00;AN=64;DP=173;FS=0.0
40967	chrY	17953636	.	G	C	3738.86	PASS	AC=18;AF=1.00;AN=18;DP=137;FS=0.0
40968	chrY	17954035	.	C	T	4122.97	PASS	AC=20;AF=1.00;AN=20;DP=166;FS=0.0
40969	chrY	17957241	.	G	A	382.65	PASS	AC=2;AF=0.029;AN=68;DP=535;FS=0.0
40970	chrY	17957903	.	T	C	8596.72	PASS	AC=50;AF=0.735;AN=68;DP=442;FS=0.0
40971	chrY	17957933	.	C	T	885.06	PASS	AC=6;AF=0.088;AN=68;DP=453;FS=0.0
40972	chrY	17959705	.	G	A	1258.47	PASS	AC=6;AF=0.086;AN=70;DP=434;FS=0.0
40973	chrY	17962120	.	A	C	581.91	PASS	AC=2;AF=0.029;AN=68;DP=333;FS=0.0
40974	chrY	17962125	.	G	T	581.85	PASS	AC=2;AF=0.029;AN=70;DP=342;FS=0.0
40975	chrY	17963688	.	T	A	360.67	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum
40976	chrY	17964057	.	C	T	1392.42	PASS	AC=6;AF=0.086;AN=70;DP=504;FS=0.0
40977	chrY	17964194	.	C	A	306.48	PASS	AC=2;AF=0.030;AN=66;DP=387;FS=0.0
40978	chrY	17964682	.	C	A	1362.27	PASS	AC=6;AF=0.094;AN=64;DP=245;FS=0.0
40979	chrY	17968786	.	A	T	1194.73	PASS	AC=6;AF=0.125;AN=48;DP=180;FS=0.0
40980	chrY	17976596	.	G	A	972.14	PASS	AC=6;AF=0.088;AN=68;DP=463;FS=0.0
40981	chrY	17980274	.	A	G	4785.81	PASS	AC=44;AF=0.647;AN=68;DP=346;FS=0.0
40982	chrY	17980858	.	G	T	1250.66	PASS	AC=6;AF=0.086;AN=70;DP=453;FS=0.0
40983	chrY	17981104	.	G	T	273.72	PASS	AC=2;AF=0.029;AN=70;DP=438;FS=0.0
40984	chrY	17983088	.	G	C	4322.71	PASS	AC=40;AF=0.571;AN=70;DP=328;FS=0.0
40985	chrY	17984143	.	T	C	2942.03	PASS	AC=40;AF=0.690;AN=58;DP=263;FS=0.0
40986	chrY	17985511	.	C	G	762.37	PASS	AC=6;AF=0.086;AN=70;DP=507;FS=0.0
40987	chrY	17986687	.	A	C	15377.90	PASS	AC=66;AF=1.00;AN=66;DP=50
40988	chrY	17987068	.	T	G	371.37	PASS	AC=8;AF=0.400;AN=20;DP=114;FS=0.0
40989	chrY	17998406	.	G	T	44.85	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
40990	chrY	17998574	.	G	C	360.32	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum
40991	chrY	17998578	.	G	C	353.06	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum
40992	chrY	17998593	.	G	A	359.01	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum
40993	chrY	17998622	.	G	A	291.79	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum
40994	chrY	17998929	.	G	T	72.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum
40995	chrY	17998932	.	T	C	69.30	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum
40996	chrY	17998942	.	T	A	92.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum
40997	chrY	17998972	.	A	C	102.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum
40998	chrY	17998979	.	G	A	102.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum
40999	chrY	17999044	.	T	G	995.33	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum
41000	chrY	17999842	.	G	T	1351.28	PASS	AC=6;AF=0.333;AN=18;DP=158;FS=0.0
41001	chrY	18000901	.	T	C	1561.23	PASS	AC=6;AF=0.333;AN=18;DP=155;FS=0.0
41002	chrY	18002074	.	A	G	3475.88	PASS	AC=18;AF=1.00;AN=18;DP=132;FS=0.0
41003	chrY	18003724	.	C	T	1174.38	PASS	AC=6;AF=0.088;AN=68;DP=239;FS=0.0
41004	chrY	18008688	.	G	T	64.67	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41005	chrY	18016828	.	T	C	13619.09	PASS	AC=52;AF=0.743;AN=70;DP=5
41006	chrY	18017210	.	C	G	31.16	PASS	AC=2;AF=0.034;AN=58;DP=128;FS=0.0
41007	chrY	18017528	.	T	G	14191.92	PASS	AC=70;AF=1.00;AN=70;DP=47
41008	chrY	18018268	.	G	A	1350.03	PASS	AC=6;AF=0.091;AN=66;DP=428;FS=0.0
41009	chrY	18019841	.	T	C	223.67	PASS	AC=2;AF=0.059;AN=34;DP=74;FS=0.00
41010	chrY	18023284	.	G	T	4208.13	PASS	AC=50;AF=0.735;AN=68;DP=271;FS=0.0
41011	chrY	18026855	.	A	G	12366.94	PASS	AC=70;AF=1.00;AN=70;DP=42
41012	chrY	18028351	.	A	T	457.90	PASS	AC=4;AF=0.063;AN=64;DP=317;FS=0.0
41013	chrY	18028661	.	G	A	4662.03	PASS	AC=38;AF=1.00;AN=38;DP=209;FS=0.0
41014	chrY	18030738	.	C	T	7662.29	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum
41015	chrY	18030831	.	G	A	318.03	PASS	AC=2;AF=0.029;AN=70;DP=385;FS=0.0
41016	chrY	18033437	.	C	T	918.67	PASS	AC=6;AF=0.086;AN=70;DP=377;FS=0.0
41017	chrY	18040700	.	T	A	663.83	PASS	AC=6;AF=0.088;AN=68;DP=321;FS=0.0
41018	chrY	18041777	.	G	A	1862.23	PASS	AC=6;AF=0.333;AN=18;DP=179;FS=0.0
41019	chrY	18042861	.	G	A	2751.98	PASS	AC=20;AF=1.00;AN=20;DP=109;FS=0.0
41020	chrY	18045085	.	A	T	31.42	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
41021	chrY	18047475	.	C	A	11062.01	PASS	AC=66;AF=1.00;AN=66;DP=39
41022	chrY	18051289	.	G	C	6939.13	PASS	AC=54;AF=0.818;AN=66;DP=333;FS=0.0
41023	chrY	18053083	.	A	G	180.58	PASS	AC=6;AF=0.097;AN=62;DP=222;FS=0.0
41024	chrY	18058588	.	T	A	1450.53	PASS	AC=6;AF=0.143;AN=42;DP=169;FS=0.0
41025	chrY	18060417	.	C	G	1303.25	PASS	AC=18;AF=1.00;AN=18;DP=130;FS=0.0
41026	chrY	18063802	.	A	G	1335.80	PASS	AC=6;AF=0.088;AN=68;DP=572;FS=0.0
41027	chrY	18066156	.	T	C	10356.98	PASS	AC=62;AF=1.00;AN=62;DP=36
41028	chrY	18066200	.	C	T	1489.73	PASS	AC=6;AF=0.086;AN=70;DP=310;FS=0.0
41029	chrY	18066327	.	A	T	2632.37	PASS	AC=40;AF=0.690;AN=58;BaseQRankSum
41030	chrY	18066940	.	T	G	86.21	PASS	AC=2;AF=0.029;AN=70;DP=356;FS=0.0
41031	chrY	18071170	.	C	T	1299.28	PASS	AC=6;AF=0.088;AN=68;DP=404;FS=0.0
41032	chrY	18075043	.	T	C	4826.13	PASS	AC=42;AF=0.636;AN=66;DP=323;FS=0.0
41033	chrY	18076161	.	C	T	37.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
41034	chrY	18076177	.	G	A	39.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
41035	chrY	18083170	.	A	G	578.76	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum
41036	chrY	18086000	.	C	T	9392.99	PASS	AC=50;AF=0.735;AN=68;DP=486;FS=0.0
41037	chrY	18088319	.	A	C	1269.47	PASS	AC=6;AF=0.086;AN=70;DP=427;FS=0.0
41038	chrY	18088599	.	G	A	4293.29	PASS	AC=46;AF=0.719;AN=64;BaseQRankSum
41039	chrY	18090558	.	G	A	1079.10	PASS	AC=6;AF=0.086;AN=70;DP=527;FS=0.0
41040	chrY	18091127	.	T	C	830.15	PASS	AC=6;AF=0.088;AN=68;DP=433;FS=0.0

41041	chrY	18094675	.	A	G	1075.67	PASS	AC=6;AF=0.086;AN=70;DP=428;FS=0.0
41042	chrY	18095336	.	C	A	6432.18	PASS	AC=60;AF=1.00;AN=60;BaseQRankSum=
41043	chrY	18095775	.	G	A	42.51	PASS	AC=2;AF=0.037;AN=54;DP=69;FS=0.00
41044	chrY	18096073	.	T	C	870.86	PASS	AC=4;AF=0.057;AN=70;DP=540;FS=0.0
41045	chrY	18096360	.	G	T	1101.10	PASS	AC=18;AF=1.00;AN=18;DP=53;FS=0.00
41046	chrY	18096806	.	C	A	346.85	PASS	AC=2;AF=0.029;AN=70;DP=472;FS=0.0
41047	chrY	18097251	.	A	C	4820.50	PASS	AC=50;AF=0.806;AN=62;DP=266;FS=0.
41048	chrY	18103101	.	T	A	3051.56	PASS	AC=36;AF=0.750;AN=48;DP=194;FS=0.
41049	chrY	18106997	.	C	T	2660.94	PASS	AC=12;AF=0.171;AN=70;DP=374;FS=0.
41050	chrY	18109555	.	A	C	13477.94	PASS	AC=70;AF=1.00;AN=70;BaseQ
41051	chrY	18111804	.	C	T	1061.49	PASS	AC=6;AF=0.086;AN=70;DP=446;FS=0.0
41052	chrY	18111848	.	C	T	1095.34	PASS	AC=6;AF=0.086;AN=70;DP=409;FS=0.0
41053	chrY	18115963	.	G	T	1203.28	PASS	AC=6;AF=0.086;AN=70;DP=362;FS=0.0
41054	chrY	18116596	.	T	C	9331.08	PASS	AC=68;AF=1.00;AN=68;DP=314;FS=0.0
41055	chrY	18117165	.	T	C	7877.78	PASS	AC=52;AF=0.743;AN=70;DP=430;FS=0.
41056	chrY	18117193	.	T	C	15966.92	PASS	AC=68;AF=1.00;AN=68;DP=54
41057	chrY	18121600	.	C	T	994.23	PASS	AC=6;AF=0.333;AN=18;DP=148;FS=0.0
41058	chrY	18127224	.	T	C	363.87	PASS	AC=2;AF=0.029;AN=68;DP=264;FS=0.0
41059	chrY	18127293	.	A	G	111.53	PASS	AC=2;AF=0.030;AN=66;DP=280;FS=0.0
41060	chrY	18131000	.	A	T	1736.75	PASS	AC=6;AF=0.300;AN=20;DP=188;FS=0.0
41061	chrY	18131055	.	T	C	397.02	PASS	AC=2;AF=0.111;AN=18;DP=202;FS=0.0
41062	chrY	18134442	.	T	C	959.60	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
41063	chrY	18135279	.	G	A	1682.18	PASS	AC=6;AF=0.333;AN=18;DP=175;FS=0.0
41064	chrY	18137831	.	C	T	15157.93	PASS	AC=70;AF=1.00;AN=70;DP=50
41065	chrY	18141343	.	C	A	68.48	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41066	chrY	18148540	.	G	T	327.97	PASS	AC=2;AF=0.030;AN=66;DP=252;FS=0.0
41067	chrY	18149586	.	G	C	79.64	PASS	AC=2;AF=0.032;AN=62;DP=198;FS=0.0
41068	chrY	18150566	.	A	G	660.19	PASS	AC=6;AF=0.086;AN=70;DP=636;FS=0.0
41069	chrY	18153367	.	T	C	605.07	PASS	AC=6;AF=0.088;AN=68;DP=286;FS=0.0
41070	chrY	18155165	.	A	G	1064.16	PASS	AC=6;AF=0.086;AN=70;DP=495;FS=0.0
41071	chrY	18155754	.	T	C	1266.95	PASS	AC=6;AF=0.097;AN=62;DP=198;FS=0.0
41072	chrY	18157468	.	T	C	556.13	PASS	AC=2;AF=0.029;AN=70;DP=612;FS=0.0
41073	chrY	18159948	.	G	T	197.44	PASS	AC=4;AF=0.069;AN=58;DP=212;FS=0.0
41074	chrY	18161937	.	A	G	34.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41075	chrY	18161938	.	T	C	34.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41076	chrY	18167403	.	T	C	11552.98	PASS	AC=66;AF=1.00;AN=66;DP=40
41077	chrY	18167933	.	G	A	960.07	PASS	AC=4;AF=0.059;AN=68;DP=618;FS=0.0
41078	chrY	18168470	.	C	T	215.84	PASS	AC=2;AF=0.029;AN=70;DP=354;FS=0.0
41079	chrY	18168561	.	C	G	681.23	PASS	AC=6;AF=0.086;AN=70;DP=622;FS=0.0
41080	chrY	18168708	.	G	A	153.74	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
41081	chrY	18173194	.	C	T	746.70	PASS	AC=6;AF=0.088;AN=68;DP=281;FS=0.0
41082	chrY	18174445	.	A	G	552.91	PASS	AC=6;AF=0.088;AN=68;DP=303;FS=0.0
41083	chrY	18175815	.	G	A	1067.48	PASS	AC=6;AF=0.086;AN=70;DP=491;FS=0.0
41084	chrY	18178091	.	A	G	2053.97	PASS	AC=38;AF=0.760;AN=50;DP=106;FS=0.
41085	chrY	18180446	.	A	C	7152.06	PASS	AC=62;AF=1.00;AN=62;DP=271;FS=0.0
41086	chrY	18182250	.	C	T	208.25	PASS	AC=2;AF=0.029;AN=68;DP=426;FS=0.0
41087	chrY	18182374	.	G	A	7386.64	PASS	AC=44;AF=0.647;AN=68;DP=427;FS=0.
41088	chrY	18186097	.	A	G	287.59	PASS	AC=2;AF=0.029;AN=70;DP=428;FS=0.0
41089	chrY	18186596	.	C	T	11812.21	PASS	AC=50;AF=0.735;AN=68;DP=5
41090	chrY	18187990	.	A	T	1642.42	PASS	AC=6;AF=0.088;AN=68;DP=496;FS=0.0
41091	chrY	18188734	.	C	G	4233.46	PASS	AC=40;AF=0.571;AN=70;DP=347;FS=0.
41092	chrY	18192176	.	C	T	1515.68	PASS	AC=6;AF=0.214;AN=28;DP=173;FS=0.0
41093	chrY	18194796	.	T	C	611.03	PASS	AC=4;AF=0.061;AN=66;DP=248;FS=0.0
41094	chrY	18195189	.	G	A	81.94	PASS	AC=2;AF=0.111;AN=18;DP=72;FS=0.00
41095	chrY	18197426	.	T	C	7183.11	PASS	AC=44;AF=0.647;AN=68;DP=463;FS=0.0
41096	chrY	18197805	.	C	T	275.55	PASS	AC=2;AF=0.029;AN=70;DP=372;FS=0.0
41097	chrY	18206858	.	C	T	3199.13	PASS	AC=36;AF=0.545;AN=66;BaseQRankSum=
41098	chrY	18211697	.	A	G	652.73	PASS	AC=6;AF=0.120;AN=50;DP=188;FS=0.0
41099	chrY	18212954	.	C	T	1066.19	PASS	AC=6;AF=0.086;AN=70;DP=475;FS=0.0
41100	chrY	18213440	.	A	G	793.23	PASS	AC=6;AF=0.091;AN=66;DP=295;FS=0.0
41101	chrY	18219512	.	G	A	162.17	PASS	AC=2;AF=0.029;AN=70;DP=488;FS=0.0
41102	chrY	18223104	.	T	C	34.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41103	chrY	18233782	.	G	A	1154.56	PASS	AC=6;AF=0.088;AN=68;DP=396;FS=0.0
41104	chrY	18238343	.	A	T	395.46	PASS	AC=2;AF=0.029;AN=70;DP=509;FS=0.0
41105	chrY	18243338	.	T	A	907.44	PASS	AC=26;AF=0.520;AN=50;DP=223;FS=0.
41106	chrY	18248698	.	G	A	12429.95	PASS	AC=68;AF=1.00;AN=68;DP=42
41107	chrY	18256619	.	G	A	68.81	PASS	AC=2;AF=0.032;AN=62;DP=200;FS=0.0
41108	chrY	18259159	.	C	T	1538.89	PASS	AC=6;AF=0.086;AN=70;DP=354;FS=0.0
41109	chrY	18263316	.	G	A	6994.89	PASS	AC=50;AF=0.735;AN=68;DP=345;FS=0.
41110	chrY	18263926	.	C	A	100.07	PASS	AC=4;AF=0.091;AN=44;DP=131;FS=0.0
41111	chrY	18266293	.	A	C	2431.24	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum=
41112	chrY	18269236	.	C	T	37.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41113	chrY	18269261	.	C	T	34.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41114	chrY	18269675	.	C	T	992.38	PASS	AC=6;AF=0.094;AN=64;DP=209;FS=0.0
41115	chrY	18271616	.	T	C	728.64	my_snps_filter	AC=9;AF=0.129;AN=70;BaseQ
41116	chrY	18281233	.	G	T	424.95	my_snps_filter	AC=3;AF=0.044;AN=68;BaseQ

41117	chrY	18285396	.	G	T	41.77	my_snp_filter	AC=2;AF=0.143;AN=14;DP=25
41118	chrY	18289883	.	G	A	72.58	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
41119	chrY	18290306	.	G	C	652.85	my_snp_filter	AC=6;AF=0.136;AN=44;DP=91
41120	chrY	18290476	.	C	T	240.27	my_snp_filter	AC=6;AF=0.500;AN=12;DP=26
41121	chrY	18307175	.	G	C	39080.79	PASS	AC=61;AF=0.871;AN=70;Base
41122	chrY	18307228	.	T	C	438.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
41123	chrY	18381485	.	T	C	280.25	PASS	AC=2;AF=0.029;AN=68;DP=364;FS=0.0
41124	chrY	18381735	.	G	A	14370.93	PASS	AC=68;AF=1.00;AN=68;DP=47
41125	chrY	18382410	.	C	A	1187.42	PASS	AC=6;AF=0.088;AN=68;DP=446;FS=0.0
41126	chrY	18383140	.	C	T	1465.77	PASS	AC=6;AF=0.086;AN=70;DP=773;FS=0.0
41127	chrY	18387196	.	C	A	2976.93	PASS	AC=6;AF=0.088;AN=68;DP=634;FS=0.0
41128	chrY	18387204	.	T	A	2946.52	PASS	AC=6;AF=0.086;AN=70;DP=614;FS=0.0
41129	chrY	18389530	.	C	A	1141.20	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
41130	chrY	18394634	.	C	T	14649.60	PASS	AC=67;AF=0.985;AN=68;Base
41131	chrY	18400574	.	G	A	792.99	PASS	AC=6;AF=0.091;AN=66;DP=310;FS=0.0
41132	chrY	18407611	.	T	C	14496.03	PASS	AC=70;AF=1.00;AN=70;BaseQ
41133	chrY	18408935	.	C	G	4096.86	PASS	AC=18;AF=1.00;AN=18;DP=183;FS=0.0
41134	chrY	18410696	.	C	T	1311.55	PASS	AC=30;AF=0.625;AN=48;DP=184;FS=0.
41135	chrY	18413033	.	A	C	3921.86	PASS	AC=44;AF=0.647;AN=68;DP=286;FS=0.
41136	chrY	18414562	.	A	G	36.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41137	chrY	18414584	.	C	G	36.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41138	chrY	18414585	.	G	A	352.37	PASS	AC=2;AF=0.029;AN=70;DP=518;FS=0.0
41139	chrY	18414586	.	A	C	36.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41140	chrY	18415345	.	C	T	560.63	PASS	AC=2;AF=0.029;AN=68;DP=453;FS=0.0
41141	chrY	18416442	.	T	C	40.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41142	chrY	18416444	.	A	T	40.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41143	chrY	18424328	.	A	G	32.88	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
41144	chrY	18424335	.	A	G	32.76	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
41145	chrY	18424949	.	T	A	1401.24	PASS	AC=6;AF=0.088;AN=68;DP=249;FS=0.0
41146	chrY	18425202	.	A	G	990.98	PASS	AC=6;AF=0.103;AN=58;DP=212;FS=0.0
41147	chrY	18454880	.	C	T,*	525.99	PASS	AC=6,2;AF=0.500,0.167;AN=12;DP=36
41148	chrY	18468548	.	T	A	373.49	my_snp_filter	AC=14;AF=0.875;AN=16;DP=3
41149	chrY	18471881	.	A	T	2290.30	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
41150	chrY	18517637	.	G	A	462.82	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
41151	chrY	18518135	.	T	A	121.31	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
41152	chrY	18518925	.	T	C	170.94	PASS	AC=4;AF=0.057;AN=70;DP=577;FS=0.0
41153	chrY	18518974	.	C	T	876.81	my_snp_filter	AC=6;AF=0.086;AN=70;DP=82
41154	chrY	18537493	.	G	A	404.31	my_snp_filter	AC=6;AF=0.086;AN=70;DP=55
41155	chrY	18537567	.	A	G	9401.20	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum=
41156	chrY	18538031	.	T	A	844.10	PASS	AC=6;AF=0.091;AN=66;DP=199;FS=0.0
41157	chrY	18541296	.	A	T	249.19	PASS	AC=2;AF=0.091;AN=22;DP=186;FS=0.0
41158	chrY	18541298	.	A	C	1375.63	PASS	AC=6;AF=0.273;AN=22;DP=181;FS=0.0
41159	chrY	18544963	.	A	G	597.61	PASS	AC=6;AF=0.150;AN=40;DP=146;FS=0.0
41160	chrY	18552719	.	C	T	5020.94	PASS	AC=40;AF=0.571;AN=70;DP=353;FS=0.
41161	chrY	18561042	.	T	G	987.07	PASS	AC=6;AF=0.088;AN=68;DP=271;FS=0.0
41162	chrY	18568902	.	C	G	707.64	PASS	AC=6;AF=0.086;AN=70;DP=443;FS=0.0
41163	chrY	18572332	.	T	C	5765.56	PASS	AC=48;AF=0.727;AN=66;DP=342;FS=0.
41164	chrY	18573145	.	T	G	549.74	PASS	AC=6;AF=0.086;AN=70;DP=316;FS=0.0
41165	chrY	18575023	.	T	G	61.35	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
41166	chrY	18578476	.	A	G	7291.43	PASS	AC=54;AF=0.818;AN=66;DP=341;FS=0.
41167	chrY	18578720	.	C	T	2348.13	PASS	AC=28;AF=0.438;AN=64;DP=254;FS=0.
41168	chrY	18585796	.	C	T	234.04	PASS	AC=4;AF=0.182;AN=22;DP=137;FS=0.0
41169	chrY	18589702	.	T	A	146.71	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
41170	chrY	18589703	.	T	A	1022.74	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
41171	chrY	18592273	.	G	C	656.35	PASS	AC=6;AF=0.086;AN=70;DP=434;FS=0.0
41172	chrY	18594398	.	A	G	11415.29	PASS	AC=46;AF=0.657;AN=70;DP=5
41173	chrY	18596847	.	A	G	7178.26	PASS	AC=58;AF=0.829;AN=70;DP=332;FS=0.
41174	chrY	18602729	.	C	A	379.81	PASS	AC=2;AF=0.029;AN=68;DP=379;FS=0.0
41175	chrY	18607826	.	G	A	138.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
41176	chrY	18609311	.	A	G	260.91	PASS	AC=2;AF=0.029;AN=70;DP=411;FS=0.0
41177	chrY	18611644	.	T	A	4890.33	PASS	AC=46;AF=1.00;AN=46;DP=185;FS=0.0
41178	chrY	18612761	.	A	G	53.34	PASS	AC=3;AF=0.500;AN=6;BaseQRankSum=-
41179	chrY	18613753	.	C	T	3884.07	PASS	AC=48;AF=0.727;AN=66;DP=288;FS=0.
41180	chrY	18617596	.	T	C	16190.92	PASS	AC=64;AF=1.00;AN=64;DP=53
41181	chrY	18621300	.	A	G	1074.54	PASS	AC=6;AF=0.086;AN=70;DP=443;FS=0.0
41182	chrY	18625199	.	T	A	947.78	PASS	AC=6;AF=0.300;AN=20;DP=129;FS=0.0
41183	chrY	18630185	.	A	G	1110.50	PASS	AC=6;AF=0.125;AN=48;DP=190;FS=0.0
41184	chrY	18647146	.	C	A	10436.97	PASS	AC=68;AF=1.00;AN=68;DP=36
41185	chrY	18654150	.	A	G,*	369.77	PASS	AC=2,5;AF=0.032,0.081;AN=62;DP=27
41186	chrY	18656449	.	T	G	246.82	PASS	AC=2;AF=0.029;AN=70;DP=288;FS=0.0
41187	chrY	18656508	.	C	G	9439.96	PASS	AC=68;AF=1.00;AN=68;DP=332;FS=0.0
41188	chrY	18661309	.	A	G	935.50	PASS	AC=6;AF=0.086;AN=70;DP=494;FS=0.0
41189	chrY	18663706	.	C	G	7698.44	PASS	AC=52;AF=0.743;AN=70;DP=399;FS=0.
41190	chrY	18671871	.	G	A	9853.35	PASS	AC=46;AF=0.657;AN=70;DP=513;FS=0.
41191	chrY	18674851	.	C	A	7754.52	PASS	AC=52;AF=0.743;AN=70;DP=398;FS=0.
41192	chrY	18680398	.	A	C	69.40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

41193	chrY	18680402	.	G	C	65.43	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41194	chrY	18680406	.	G	T	69.15	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41195	chrY	18680409	.	A	C	69.04	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41196	chrY	18680412	.	A	T	68.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41197	chrY	18680421	.	C	T	71.95	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41198	chrY	18680422	.	A	G	72.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41199	chrY	18680432	.	A	G	68.03	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41200	chrY	18680434	.	A	C	61.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41201	chrY	18680435	.	G	C	62.44	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41202	chrY	18681816	.	A	G	31.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41203	chrY	18685536	.	C	T	488.63	PASS	AC=2;AF=0.029;AN=70;DP=377;FS=0.0
41204	chrY	18687682	.	A	T	155.45	PASS	AC=4;AF=0.111;AN=36;DP=82;FS=0.00
41205	chrY	18689874	.	A	C	1599.01	PASS	AC=16;AF=0.267;AN=60;DP=196;FS=0.
41206	chrY	18696215	.	C	A	1386.34	PASS	AC=6;AF=0.086;AN=70;DP=360;FS=0.0
41207	chrY	18697375	.	C	T	1857.42	PASS	AC=30;AF=0.517;AN=58;DP=197;FS=0.
41208	chrY	18702597	.	T	G	1260.57	PASS	AC=6;AF=0.088;AN=68;DP=501;FS=0.0
41209	chrY	18710014	.	A	T	762.05	PASS	AC=4;AF=0.222;AN=18;DP=139;FS=0.0
41210	chrY	18717224	.	A	G	570.56	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
41211	chrY	18719565	.	C	T	9591.03	PASS	AC=70;AF=1.00;AN=70;DP=325;FS=0.0
41212	chrY	18720028	.	T	C	3302.86	PASS	AC=18;AF=1.00;AN=18;DP=189;FS=0.0
41213	chrY	18726258	.	T	G	32.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41214	chrY	18727936	.	C	T	5155.87	PASS	AC=38;AF=0.576;AN=66;BaseQRankSum=
41215	chrY	18729756	.	T	G	318.56	PASS	AC=2;AF=0.029;AN=70;DP=376;FS=0.0
41216	chrY	18730463	.	A	G	1203.86	PASS	AC=6;AF=0.088;AN=68;DP=333;FS=0.0
41217	chrY	18734510	.	C	A	1355.96	PASS	AC=6;AF=0.300;AN=20;DP=151;FS=0.0
41218	chrY	18735666	.	T	C	455.94	PASS	AC=6;AF=0.091;AN=66;DP=222;FS=0.0
41219	chrY	18739426	.	A	G	201.44	PASS	AC=2;AF=0.029;AN=70;DP=425;FS=0.0
41220	chrY	18740421	.	G	T	1090.37	PASS	AC=6;AF=0.086;AN=70;DP=328;FS=0.0
41221	chrY	18742202	.	C	T	835.94	PASS	AC=6;AF=0.130;AN=46;DP=118;FS=0.0
41222	chrY	18743050	.	A	G	1356.03	PASS	AC=6;AF=0.088;AN=68;DP=327;FS=0.0
41223	chrY	18744476	.	C	T	3602.23	PASS	AC=28;AF=1.00;AN=28;DP=142;FS=0.0
41224	chrY	18751418	.	T	C	1404.95	PASS	AC=6;AF=0.086;AN=70;DP=810;FS=0.0
41225	chrY	18756158	.	T	C	1579.81	PASS	AC=6;AF=0.086;AN=70;DP=507;FS=0.0
41226	chrY	18759240	.	G	A	1827.41	PASS	AC=4;AF=0.057;AN=70;DP=704;FS=0.0
41227	chrY	18765649	.	C	T	4607.75	PASS	AC=54;AF=0.818;AN=66;DP=229;FS=0.
41228	chrY	18767237	.	T	A	36.49	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41229	chrY	18767251	.	C	T	190.69	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
41230	chrY	18773196	.	A	G	126.36	PASS	AC=2;AF=0.029;AN=70;DP=504;FS=0.0
41231	chrY	18776516	.	T	A	3492.55	PASS	AC=44;AF=0.647;AN=68;DP=271;FS=0.
41232	chrY	18776629	.	A	T	1432.82	PASS	AC=6;AF=0.094;AN=64;DP=271;FS=0.0
41233	chrY	18778981	.	C	A	1211.56	PASS	AC=6;AF=0.088;AN=68;DP=591;FS=0.0
41234	chrY	18782816	.	T	G	934.96	PASS	AC=6;AF=0.086;AN=70;DP=582;FS=0.0
41235	chrY	18787125	.	G	A	2154.56	PASS	AC=32;AF=0.640;AN=50;DP=220;FS=0.
41236	chrY	18795682	.	T	C	1790.27	PASS	AC=10;AF=0.455;AN=22;DP=172;FS=0.
41237	chrY	18795722	.	G	T	1606.75	PASS	AC=6;AF=0.300;AN=20;DP=162;FS=0.0
41238	chrY	18797196	.	A	C	6364.52	PASS	AC=52;AF=0.813;AN=64;DP=295;FS=0.
41239	chrY	18801280	.	A	T	333.85	PASS	AC=12;AF=1.00;AN=12;DP=19;FS=0.00
41240	chrY	18801906	.	A	C	3642.92	PASS	AC=20;AF=1.00;AN=20;DP=151;FS=0.0
41241	chrY	18802968	.	T	G	237.79	PASS	AC=4;AF=0.061;AN=66;DP=271;FS=0.0
41242	chrY	18803812	.	G	A	1061.59	PASS	AC=6;AF=0.088;AN=68;DP=260;FS=0.0
41243	chrY	18818812	.	T	C	1661.18	PASS	AC=6;AF=0.333;AN=18;DP=183;FS=0.0
41244	chrY	18821773	.	C	T	868.71	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
41245	chrY	18831084	.	G	A	10087.08	PASS	AC=68;AF=1.00;AN=68;DP=33
41246	chrY	18831625	.	G	T	48.25	PASS	AC=2;AF=0.037;AN=54;DP=173;FS=0.0
41247	chrY	18831626	.	G	T	48.57	PASS	AC=2;AF=0.037;AN=54;DP=173;FS=0.0
41248	chrY	18832816	.	T	C	1801.89	PASS	AC=32;AF=0.640;AN=50;DP=194;FS=0.
41249	chrY	18835758	.	T	G	308.01	PASS	AC=2;AF=0.029;AN=70;DP=294;FS=0.0
41250	chrY	18838575	.	C	T	657.28	PASS	AC=6;AF=0.231;AN=26;DP=134;FS=0.0
41251	chrY	18843140	.	C	T	4868.31	PASS	AC=48;AF=0.727;AN=66;DP=331;FS=0.
41252	chrY	18849089	.	C	T	364.82	PASS	AC=2;AF=0.056;AN=36;DP=193;FS=0.0
41253	chrY	18852066	.	G	A	3200.38	PASS	AC=40;AF=0.625;AN=64;DP=244;FS=0.
41254	chrY	18860537	.	G	A	1364.54	PASS	AC=6;AF=0.333;AN=18;DP=160;FS=0.0
41255	chrY	18860907	.	C	T	4749.86	PASS	AC=40;AF=0.625;AN=64;DP=316;FS=0.
41256	chrY	18861458	.	T	G	421.96	PASS	AC=4;AF=0.057;AN=70;DP=551;FS=0.0
41257	chrY	18865298	.	T	C	9588.98	PASS	AC=62;AF=1.00;AN=62;DP=338;FS=0.0
41258	chrY	18865996	.	T	A	1041.17	PASS	AC=6;AF=0.158;AN=38;DP=137;FS=0.0
41259	chrY	18871667	.	T	G	4828.46	PASS	AC=47;AF=0.940;AN=50;BaseQRankSum=
41260	chrY	18871677	.	G	A	95.58	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
41261	chrY	18871681	.	A	G	55.70	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
41262	chrY	18871685	.	G	A	49.77	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
41263	chrY	18872082	.	T	C	543.80	PASS	AC=10;AF=0.357;AN=28;DP=159;FS=0.
41264	chrY	18872409	.	C	A	621.78	PASS	AC=6;AF=0.086;AN=70;DP=660;FS=0.0
41265	chrY	18873040	.	T	C	2220.45	PASS	AC=6;AF=0.086;AN=70;DP=719;FS=0.0
41266	chrY	18875673	.	A	C	988.76	PASS	AC=6;AF=0.300;AN=20;DP=170;FS=0.0
41267	chrY	18876095	.	G	A	1644.74	PASS	AC=6;AF=0.300;AN=20;DP=187;FS=0.0
41268	chrY	18880574	.	A	G	10363.84	PASS	AC=58;AF=0.829;AN=70;DP=4

41269	chrY	18882293	.	A	G	145.24	PASS	AC=2;AF=0.029;AN=70;DP=387;FS=0.0
41270	chrY	18886218	.	T	C	385.66	PASS	AC=6;AF=0.091;AN=66;DP=216;FS=0.0
41271	chrY	18890063	.	C	T	17091.07	PASS	AC=52;AF=0.743;AN=70;DP=6
41272	chrY	18890140	.	G	A	1208.78	PASS	AC=6;AF=0.086;AN=70;DP=610;FS=0.0
41273	chrY	18892377	.	C	T	233.89	PASS	AC=4;AF=0.200;AN=20;DP=74;FS=0.00
41274	chrY	18896061	.	A	G	154.40	PASS	AC=2;AF=0.029;AN=68;DP=299;FS=0.0
41275	chrY	18900172	.	C	T	347.88	PASS	AC=2;AF=0.030;AN=66;DP=249;FS=0.0
41276	chrY	18903362	.	C	T	1366.05	PASS	AC=6;AF=0.088;AN=68;DP=301;FS=0.0
41277	chrY	18904838	.	T	A	3959.60	PASS	AC=48;AF=0.800;AN=60;DP=242;FS=0
41278	chrY	18907236	.	C	A	11853.96	PASS	AC=64;AF=1.00;AN=64;DP=41
41279	chrY	18907927	.	A	G	449.31	PASS	AC=6;AF=0.103;AN=58;DP=133;FS=0.0
41280	chrY	18914441	.	T	C	12853.92	PASS	AC=70;AF=1.00;AN=70;DP=41
41281	chrY	18916557	.	C	T	620.53	PASS	AC=6;AF=0.086;AN=70;DP=441;FS=0.0
41282	chrY	18917306	.	T	C	1849.89	PASS	AC=38;AF=0.679;AN=56;DP=204;FS=0.
41283	chrY	18925314	.	T	G	1172.96	PASS	AC=8;AF=0.211;AN=38;DP=140;FS=0.0
41284	chrY	18930547	.	C	A	1168.03	PASS	AC=6;AF=0.086;AN=70;DP=625;FS=0.0
41285	chrY	18932147	.	G	A	4154.86	PASS	AC=18;AF=1.00;AN=18;DP=161;FS=0.0
41286	chrY	18935906	.	C	G	1231.16	PASS	AC=6;AF=0.100;AN=60;DP=199;FS=0.0
41287	chrY	18941356	.	G	A	1022.87	PASS	AC=6;AF=0.088;AN=68;DP=374;FS=0.0
41288	chrY	18942716	.	A	G	39.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41289	chrY	18942736	.	T	C	40.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41290	chrY	18944063	.	T	C	902.12	PASS	AC=6;AF=0.086;AN=70;DP=622;FS=0.0
41291	chrY	18944332	.	G	T	33.14	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41292	chrY	18949709	.	C	G	83.69	PASS	AC=2;AF=0.029;AN=68;DP=346;FS=0.0
41293	chrY	18949779	.	A	T	1100.66	PASS	AC=6;AF=0.086;AN=70;DP=401;FS=0.0
41294	chrY	18950932	.	A	C	5592.10	PASS	AC=46;AF=0.793;AN=58;DP=290;FS=0.
41295	chrY	18952296	.	T	A	1141	PASS	AC=6;AF=0.086;AN=70;DP=501;FS=0.0
41296	chrY	18954139	.	G	C	1090.36	PASS	AC=6;AF=0.086;AN=70;DP=258;FS=0.0
41297	chrY	18956270	.	T	C	586.59	PASS	AC=6;AF=0.097;AN=62;DP=189;FS=0.0
41298	chrY	18962007	.	A	G	303.35	PASS	AC=2;AF=0.030;AN=66;DP=253;FS=0.0
41299	chrY	18963906	.	G	A	794.95	PASS	AC=6;AF=0.231;AN=26;DP=134;FS=0.0
41300	chrY	18964171	.	A	G	37.88	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41301	chrY	18964179	.	A	G	37.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41302	chrY	18964263	.	G	A	10289.94	PASS	AC=68;AF=1.00;AN=68;DP=33
41303	chrY	18964479	.	C	T	6308.71	PASS	AC=48;AF=0.727;AN=66;DP=361;FS=0.
41304	chrY	18965493	.	T	A	254.33	PASS	AC=2;AF=0.029;AN=70;DP=481;FS=0.0
41305	chrY	18966381	.	G	A	487.65	PASS	AC=2;AF=0.032;AN=62;DP=179;FS=0.0
41306	chrY	18970170	.	C	A	486.74	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
41307	chrY	18970429	.	G	A	989.57	PASS	AC=6;AF=0.273;AN=22;DP=137;FS=0.0
41308	chrY	18970668	.	C	G	1080.96	PASS	AC=6;AF=0.300;AN=20;DP=169;FS=0.0
41309	chrY	18974541	.	C	T	54.27	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41310	chrY	18974542	.	A	G	54.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41311	chrY	18982614	.	A	G	804.84	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
41312	chrY	18984083	.	G	T	938.23	PASS	AC=6;AF=0.231;AN=26;DP=157;FS=0.0
41313	chrY	18985269	.	T	C	889.72	PASS	AC=6;AF=0.086;AN=70;DP=331;FS=0.0
41314	chrY	18986087	.	A	G	7005.02	PASS	AC=62;AF=1.00;AN=62;DP=263;FS=0.0
41315	chrY	18990246	.	G	T	1554.36	PASS	AC=24;AF=0.571;AN=42;DP=212;FS=0.
41316	chrY	18993110	.	A	C	8480.20	PASS	AC=40;AF=0.571;AN=70;DP=518;FS=0.
41317	chrY	18998868	.	T	C	1353.74	PASS	AC=6;AF=0.088;AN=68;DP=342;FS=0.0
41318	chrY	19001112	.	G	C	2398.39	PASS	AC=6;AF=0.333;AN=18;DP=149;FS=0.0
41319	chrY	19001117	.	A	G	2371.28	PASS	AC=6;AF=0.333;AN=18;DP=156;FS=0.0
41320	chrY	19002327	.	C	T	1213.31	PASS	AC=6;AF=0.091;AN=66;DP=403;FS=0.0
41321	chrY	19002447	.	T	C	842.76	PASS	AC=6;AF=0.094;AN=64;DP=216;FS=0.0
41322	chrY	19004180	.	A	T	993.04	PASS	AC=6;AF=0.086;AN=70;DP=264;FS=0.0
41323	chrY	19007731	.	A	G	412.88	PASS	AC=6;AF=0.300;AN=20;DP=69;FS=0.00
41324	chrY	19018320	.	T	G	3798.86	PASS	AC=18;AF=1.00;AN=18;DP=146;FS=0.0
41325	chrY	19019519	.	G	A	820.69	PASS	AC=6;AF=0.273;AN=22;DP=153;FS=0.0
41326	chrY	19019789	.	A	T	863.98	PASS	AC=6;AF=0.300;AN=20;DP=136;FS=0.0
41327	chrY	19020340	.	C	G	17958.90	PASS	AC=68;AF=1.00;AN=68;DP=60
41328	chrY	19020366	.	A	G	11086.02	PASS	AC=50;AF=0.735;AN=68;BaseQ
41329	chrY	19020916	.	G	A	985.74	PASS	AC=6;AF=0.088;AN=68;DP=414;FS=0.0
41330	chrY	19025057	.	C	G	46.99	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41331	chrY	19025058	.	C	T	47.73	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41332	chrY	19025435	.	A	T	1314.75	PASS	AC=6;AF=0.300;AN=20;DP=176;FS=0.0
41333	chrY	19025638	.	T	G	284.26	my_snps_filter	AC=5;AF=0.208;AN=24;BaseQ
41334	chrY	19025727	.	C	T	961.04	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
41335	chrY	19025729	.	G	T	1315.05	PASS	AC=10;AF=0.500;AN=20;BaseQRankSum=
41336	chrY	19025741	.	C	G	695.05	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
41337	chrY	19025744	.	G	A	698.02	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
41338	chrY	19025774	.	A	T	108.14	my_snps_filter	AC=3;AF=0.150;AN=20;BaseQ
41339	chrY	19025775	.	A	T	106.20	my_snps_filter	AC=3;AF=0.150;AN=20;BaseQ
41340	chrY	19025861	.	G	T	124.26	my_snps_filter	AC=3;AF=0.167;AN=18;BaseQ
41341	chrY	19025871	.	T	A	126.91	my_snps_filter	AC=4;AF=0.222;AN=18;BaseQ
41342	chrY	19025886	.	T	C	108.08	my_snps_filter	AC=5;AF=0.278;AN=18;BaseQ
41343	chrY	19025920	.	G	T	33.59	my_snps_filter	AC=2;AF=0.111;AN=18;BaseQ
41344	chrY	19025924	.	G	A	99.64	my_snps_filter	AC=2;AF=0.111;AN=18;BaseQ

41345	chrY	19025925	.	T	C	42.18	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41346	chrY	19025954	.	C	A	567.15	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
41347	chrY	19025956	.	G	A	38.93	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
41348	chrY	19025958	.	C	T	86.04	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41349	chrY	19025959	.	G	A	580.60	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
41350	chrY	19026104	.	T	G	600.53	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
41351	chrY	19026153	.	C	A	126.73	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
41352	chrY	19026187	.	A	G	233.79	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
41353	chrY	19026214	.	A	G	38.77	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
41354	chrY	19029493	.	C	G	1231.58	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
41355	chrY	19029889	.	A	G	92.19	PASS	AC=2;AF=0.091;AN=22;DP=124;FS=0.0
41356	chrY	19029978	.	T	C	1508.91	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
41357	chrY	19031997	.	A	T	435.88	PASS	AC=4;AF=0.057;AN=70;DP=372;FS=0.0
41358	chrY	19040560	.	C	T	261.90	PASS	AC=2;AF=0.029;AN=68;DP=506;FS=0.0
41359	chrY	19045018	.	A	T	963.79	PASS	AC=6;AF=0.136;AN=44;DP=145;FS=0.0
41360	chrY	19045124	.	C	T	3443.27	PASS	AC=32;AF=1.00;AN=32;DP=142;FS=0.0
41361	chrY	19045552	.	T	C	13438.91	PASS	AC=66;AF=1.00;AN=66;DP=44
41362	chrY	19045666	.	G	A	197.95	PASS	AC=2;AF=0.030;AN=66;DP=315;FS=0.0
41363	chrY	19047453	.	G	A	134.65	PASS	AC=2;AF=0.083;AN=24;DP=141;FS=0.0
41364	chrY	19048394	.	G	T,*	1430.88	PASS	AC=12,15;AF=0.250,0.313;AN=48;DP=
41365	chrY	19051726	.	T	C	16172.24	PASS	AC=40;AF=0.571;AN=70;DP=7
41366	chrY	19054560	.	C	T	309	PASS	AC=2;AF=0.033;AN=60;DP=213;FS=0.0
41367	chrY	19054889	.	T	C	7340.11	PASS	AC=66;AF=1.00;AN=66;DP=297;FS=0.0
41368	chrY	19057896	.	A	C	208.02	PASS	AC=4;AF=0.083;AN=48;DP=114;FS=0.0
41369	chrY	19058744	.	C	A	5836.63	PASS	AC=46;AF=0.719;AN=64;DP=352;FS=0.0
41370	chrY	19059148	.	A	G	359.11	PASS	AC=2;AF=0.029;AN=70;DP=338;FS=0.0
41371	chrY	19060233	.	T	A	1061.91	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.0
41372	chrY	19060966	.	C	A	5583.92	PASS	AC=36;AF=0.545;AN=66;BaseQRankSum=
41373	chrY	19061349	.	T	G	16527.97	PASS	AC=68;AF=1.00;AN=68;DP=53
41374	chrY	19062072	.	C	A	1281.99	PASS	AC=6;AF=0.086;AN=70;DP=603;FS=0.0
41375	chrY	19064443	.	G	T	4242.72	PASS	AC=42;AF=0.636;AN=66;DP=350;FS=0.0
41376	chrY	19065445	.	A	G	1211.95	PASS	AC=12;AF=0.171;AN=70;DP=512;FS=0.0
41377	chrY	19067032	.	G	A	548.78	PASS	AC=6;AF=0.088;AN=68;DP=466;FS=0.0
41378	chrY	19067144	.	C	A	6101.23	PASS	AC=40;AF=0.645;AN=62;DP=392;FS=0.0
41379	chrY	19067469	.	T	C	7323.06	PASS	AC=66;AF=1.00;AN=66;BaseQRankSum=
41380	chrY	19069100	.	G	C	328.96	PASS	AC=2;AF=0.029;AN=70;DP=479;FS=0.0
41381	chrY	19070244	.	G	A	3483.36	PASS	AC=38;AF=0.559;AN=68;DP=321;FS=0.0
41382	chrY	19071198	.	G	A	9059.70	PASS	AC=38;AF=0.559;AN=68;DP=460;FS=0.0
41383	chrY	19071339	.	T	C	52.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41384	chrY	19071340	.	G	A	53.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41385	chrY	19071346	.	C	T	50.40	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41386	chrY	19071384	.	G	T	400.34	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
41387	chrY	19071385	.	T	C	1586.94	my_snp_filter	AC=18;AF=0.273;AN=66;BaseQ
41388	chrY	19071411	.	T	C	2347.15	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
41389	chrY	19071418	.	C	T	1191.71	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
41390	chrY	19071473	.	T	C	250.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
41391	chrY	19071489	.	C	T	401.86	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
41392	chrY	19071493	.	A	G	359.02	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
41393	chrY	19071953	.	C	T	819.36	PASS	AC=6;AF=0.086;AN=70;DP=458;FS=0.0
41394	chrY	19073715	.	G	T	4988.31	PASS	AC=42;AF=0.636;AN=66;DP=278;FS=0.0
41395	chrY	19077394	.	G	A	8743.23	PASS	AC=54;AF=0.818;AN=66;BaseQRankSum=
41396	chrY	19077866	.	C	T	1329.05	PASS	AC=6;AF=0.086;AN=70;DP=569;FS=0.0
41397	chrY	19078724	.	G	A	329.54	PASS	AC=2;AF=0.029;AN=70;DP=369;FS=0.0
41398	chrY	19079502	.	T	G	43.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41399	chrY	19079503	.	C	T	43.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41400	chrY	19080602	.	G	A	1291.73	PASS	AC=6;AF=0.088;AN=68;DP=302;FS=0.0
41401	chrY	19086211	.	C	A	1241.18	PASS	AC=6;AF=0.097;AN=62;DP=238;FS=0.0
41402	chrY	19086774	.	T	A	106.74	PASS	AC=2;AF=0.029;AN=70;DP=348;FS=0.0
41403	chrY	19087877	.	T	C	327.08	PASS	AC=2;AF=0.031;AN=64;DP=239;FS=0.0
41404	chrY	19089441	.	G	T	2018.88	PASS	AC=32;AF=0.533;AN=60;DP=281;FS=0.0
41405	chrY	19094565	.	T	G	407.47	PASS	AC=2;AF=0.029;AN=70;DP=401;FS=0.0
41406	chrY	19095285	.	A	G	7245	PASS	AC=60;AF=1.00;AN=60;DP=271;FS=0.0
41407	chrY	19098924	.	A	G	360.02	PASS	AC=2;AF=0.111;AN=18;DP=185;FS=0.0
41408	chrY	19102270	.	G	C	232.04	PASS	AC=2;AF=0.111;AN=18;DP=160;FS=0.0
41409	chrY	19102447	.	A	G	52.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41410	chrY	19102454	.	C	T	69.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41411	chrY	19102543	.	C	T	30.34	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41412	chrY	19112874	.	C	A	209.92	PASS	AC=4;AF=0.059;AN=68;DP=367;FS=0.0
41413	chrY	19122820	.	T	C	75.04	PASS	AC=2;AF=0.029;AN=70;DP=510;FS=0.0
41414	chrY	19123396	.	C	T	294.35	PASS	AC=2;AF=0.029;AN=70;DP=710;FS=0.0
41415	chrY	19124701	.	C	A	1321.02	PASS	AC=6;AF=0.086;AN=70;DP=294;FS=0.0
41416	chrY	19124931	.	T	G	43.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41417	chrY	19136088	.	A	T	43.71	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41418	chrY	19136089	.	C	T	43.69	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41419	chrY	19143015	.	A	G	727.85	PASS	AC=6;AF=0.086;AN=70;DP=553;FS=0.0
41420	chrY	19144375	.	T	C	14856.90	PASS	AC=70;AF=1.00;AN=70;DP=49

41421	chrY	19146735	.	G	T	716.31	PASS	AC=6;AF=0.167;AN=36;DP=112;FS=0.0
41422	chrY	19148465	.	T	C	9861.75	PASS	AC=52;AF=0.743;AN=70;DP=471;FS=0.
41423	chrY	19148481	.	G	A	998.94	PASS	AC=6;AF=0.086;AN=70;DP=461;FS=0.0
41424	chrY	19150945	.	A	G	524.13	PASS	AC=6;AF=0.086;AN=70;DP=373;FS=0.0
41425	chrY	19151936	.	A	T	1363.97	PASS	AC=6;AF=0.094;AN=64;DP=210;FS=0.0
41426	chrY	19152428	.	T	G	327.35	PASS	AC=2;AF=0.029;AN=70;DP=702;FS=0.0
41427	chrY	19156924	.	A	G	706.11	PASS	AC=6;AF=0.086;AN=70;DP=383;FS=0.0
41428	chrY	19158392	.	A	G	419.66	PASS	AC=4;AF=0.057;AN=70;DP=460;FS=0.0
41429	chrY	19159397	.	C	T	882.39	PASS	AC=2;AF=0.029;AN=68;DP=639;FS=0.0
41430	chrY	19162322	.	G	A	167.73	PASS	AC=2;AF=0.031;AN=64;DP=307;FS=0.0
41431	chrY	19165908	.	A	C	2304.98	PASS	AC=28;AF=0.700;AN=40;DP=199;FS=0.
41432	chrY	19167366	.	T	G	240.23	PASS	AC=2;AF=0.029;AN=70;DP=540;FS=0.0
41433	chrY	19173957	.	T	C	146.94	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41434	chrY	19175891	.	G	C	1539.22	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
41435	chrY	19176064	.	A	C	5160.86	PASS	AC=18;AF=1.00;AN=18;DP=197;FS=0.0
41436	chrY	19179540	.	A	G	9887	PASS	AC=66;AF=1.00;AN=66;DP=347;FS=0.0
41437	chrY	19179606	.	C	A	9297.04	PASS	AC=64;AF=1.00;AN=64;DP=317;FS=0.0
41438	chrY	19182708	.	C	T	1917.11	PASS	AC=6;AF=0.086;AN=70;DP=677;FS=0.0
41439	chrY	19182853	.	C	G	13261.29	PASS	AC=50;AF=0.735;AN=68;DP=5
41440	chrY	19188381	.	G	C	1622.06	PASS	AC=6;AF=0.086;AN=70;DP=742;FS=0.0
41441	chrY	19197028	.	T	A	555.32	PASS	AC=2;AF=0.029;AN=70;DP=691;FS=0.0
41442	chrY	19198212	.	G	A	3474.16	PASS	AC=38;AF=1.00;AN=38;DP=143;FS=0.0
41443	chrY	19205814	.	T	A	8742.57	PASS	AC=52;AF=0.813;AN=64;DP=420;FS=0.
41444	chrY	19207781	.	G	T	1031.44	PASS	AC=6;AF=0.086;AN=70;DP=472;FS=0.0
41445	chrY	19207887	.	G	T	677.64	PASS	AC=6;AF=0.086;AN=70;DP=498;FS=0.0
41446	chrY	19210606	.	G	T	3751.79	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum=
41447	chrY	19214038	.	C	T	47.54	PASS	AC=2;AF=0.033;AN=60;DP=191;FS=0.0
41448	chrY	19214059	.	G	A	164.05	PASS	AC=2;AF=0.032;AN=62;DP=230;FS=0.0
41449	chrY	19220444	.	G	A	17110.37	PASS	AC=58;AF=0.829;AN=70;DP=6
41450	chrY	19223555	.	A	G	1078.99	PASS	AC=6;AF=0.094;AN=64;DP=278;FS=0.0
41451	chrY	19226430	.	C	A	4235.53	PASS	AC=36;AF=0.600;AN=60;DP=263;FS=0.
41452	chrY	19226833	.	C	T	571.02	PASS	AC=6;AF=0.088;AN=68;DP=304;FS=0.0
41453	chrY	19227158	.	C	G	1476.34	PASS	AC=6;AF=0.086;AN=70;DP=473;FS=0.0
41454	chrY	19233271	.	C	A	33.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41455	chrY	19233278	.	G	A	33.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41456	chrY	19233286	.	A	G	33.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41457	chrY	19233304	.	T	G	39.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41458	chrY	19233305	.	C	T	39.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41459	chrY	19233307	.	T	G	39.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41460	chrY	19233990	.	A	T	1106.38	PASS	AC=22;AF=0.500;AN=44;DP=200;FS=0.
41461	chrY	19234292	.	G	A	583.16	PASS	AC=2;AF=0.029;AN=68;DP=299;FS=0.0
41462	chrY	19236092	.	T	C	1162.28	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41463	chrY	19236136	.	G	A	9422.17	PASS	AC=52;AF=0.743;AN=70;DP=467;FS=0.
41464	chrY	19237093	.	T	G	7356.61	PASS	AC=54;AF=0.818;AN=66;DP=339;FS=0.
41465	chrY	19244249	.	T	A	1030.51	PASS	AC=4;AF=0.057;AN=70;DP=437;FS=0.0
41466	chrY	19244922	.	C	T	1241.50	PASS	AC=6;AF=0.086;AN=70;DP=493;FS=0.0
41467	chrY	19245417	.	A	C	10937.03	PASS	AC=70;AF=1.00;AN=70;BaseQ
41468	chrY	19246276	.	T	A	4185.14	PASS	AC=46;AF=0.719;AN=64;DP=305;FS=0.
41469	chrY	19246407	.	A	T	190.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41470	chrY	19246561	.	G	A	14312.91	PASS	AC=66;AF=1.00;AN=66;BaseQ
41471	chrY	19252717	.	A	C	322.33	PASS	AC=2;AF=0.029;AN=70;DP=496;FS=0.0
41472	chrY	19267344	.	A	C	7856.91	PASS	AC=58;AF=1.00;AN=58;DP=292;FS=0.0
41473	chrY	19267426	.	C	A	44.06	PASS	AC=2;AF=0.029;AN=70;DP=375;FS=0.0
41474	chrY	19269306	.	C	T	1480.37	PASS	AC=6;AF=0.088;AN=68;DP=408;FS=0.0
41475	chrY	19269854	.	A	T	3344.77	PASS	AC=42;AF=0.700;AN=60;DP=271;FS=0.
41476	chrY	19269898	.	T	A	1260.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41477	chrY	19271400	.	A	G	900.16	PASS	AC=6;AF=0.086;AN=70;DP=241;FS=0.0
41478	chrY	19274282	.	G	T	1338.92	PASS	AC=6;AF=0.086;AN=70;DP=274;FS=0.0
41479	chrY	19277753	.	C	T	1529.36	PASS	AC=6;AF=0.103;AN=58;DP=217;FS=0.0
41480	chrY	19278725	.	C	T	1011.56	PASS	AC=6;AF=0.086;AN=70;DP=485;FS=0.0
41481	chrY	19279765	.	A	G	1571.99	PASS	AC=12;AF=0.171;AN=70;DP=329;FS=0.
41482	chrY	19286146	.	A	C	6345.10	PASS	AC=52;AF=0.743;AN=70;DP=352;FS=0.
41483	chrY	19286660	.	A	G	274.50	PASS	AC=2;AF=0.029;AN=68;DP=351;FS=0.0
41484	chrY	19291359	.	C	T	7704.05	PASS	AC=60;AF=1.00;AN=60;DP=277;FS=0.0
41485	chrY	19292612	.	T	G	880.01	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.0
41486	chrY	19298321	.	A	G	10190.95	PASS	AC=68;AF=1.00;AN=68;BaseQ
41487	chrY	19299411	.	G	A	800.47	PASS	AC=6;AF=0.088;AN=68;DP=469;FS=0.0
41488	chrY	19301681	.	C	A	1351.96	PASS	AC=24;AF=0.571;AN=42;DP=199;FS=0.
41489	chrY	19303108	.	C	A	15331.88	PASS	AC=70;AF=1.00;AN=70;BaseQ
41490	chrY	19303194	.	C	T	1090.13	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41491	chrY	19306761	.	A	G	31.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41492	chrY	19306993	.	T	C	5720.13	PASS	AC=37;AF=0.544;AN=68;BaseQRankSum=
41493	chrY	19307451	.	C	T	453.97	PASS	AC=4;AF=0.059;AN=68;DP=329;FS=0.0
41494	chrY	19309460	.	T	C	347.43	PASS	AC=10;AF=0.333;AN=30;DP=40;FS=0.0
41495	chrY	19311468	.	T	G	1672.11	PASS	AC=6;AF=0.086;AN=70;DP=553;FS=0.0
41496	chrY	19315274	.	C	T	475.59	PASS	AC=8;AF=0.114;AN=70;DP=309;FS=0.0

41497	chrY	19315987	.	A	G	46.72	PASS	AC=2;AF=0.029;AN=70;DP=281;FS=0.0
41498	chrY	19315988	.	T	A	7959.04	PASS	AC=66;AF=1.00;AN=66;DP=272;FS=0.0
41499	chrY	19320942	.	G	A	1627.83	PASS	AC=6;AF=0.088;AN=68;DP=352;FS=0.0
41500	chrY	19327333	.	C	A	4409.86	PASS	AC=18;AF=1.00;AN=18;DP=171;FS=0.0
41501	chrY	19327508	.	A	G	1196.18	PASS	AC=6;AF=0.333;AN=18;DP=184;FS=0.0
41502	chrY	19338287	.	T	C	683.80	PASS	AC=6;AF=0.094;AN=64;DP=408;FS=0.0
41503	chrY	19340515	.	T	C	182.26	PASS	AC=4;AF=0.063;AN=64;DP=227;FS=0.0
41504	chrY	19341097	.	A	T	765.68	PASS	AC=4;AF=0.057;AN=70;DP=430;FS=0.0
41505	chrY	19341448	.	G	A	585.24	PASS	AC=6;AF=0.086;AN=70;DP=463;FS=0.0
41506	chrY	19343844	.	A	T	36.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41507	chrY	19343849	.	A	G	36.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41508	chrY	19346785	.	C	A	438.46	PASS	AC=12;AF=0.316;AN=38;DP=166;FS=0.0
41509	chrY	19349409	.	A	G	1563.54	PASS	AC=6;AF=0.086;AN=70;DP=463;FS=0.0
41510	chrY	19349615	.	T	C	8284.43	PASS	AC=58;AF=0.829;AN=70;DP=378;FS=0.0
41511	chrY	19351340	.	A	G	1384.74	PASS	AC=6;AF=0.136;AN=44;DP=180;FS=0.0
41512	chrY	19352339	.	T	G	6754.80	PASS	AC=46;AF=0.657;AN=70;DP=435;FS=0.0
41513	chrY	19353691	.	G	A	51.71	PASS	AC=2;AF=0.100;AN=20;DP=149;FS=0.0
41514	chrY	19353705	.	T	C	51.70	PASS	AC=2;AF=0.100;AN=20;DP=165;FS=0.0
41515	chrY	19355475	.	G	A	1602.70	PASS	AC=6;AF=0.088;AN=68;DP=785;FS=0.0
41516	chrY	19357627	.	T	A	430.60	PASS	AC=2;AF=0.029;AN=70;DP=392;FS=0.0
41517	chrY	19357794	.	G	A	1103.01	PASS	AC=6;AF=0.088;AN=68;DP=381;FS=0.0
41518	chrY	19360192	.	C	T	5706.97	PASS	AC=54;AF=0.818;AN=66;DP=293;FS=0.0
41519	chrY	19361507	.	G	A	7057.94	PASS	AC=52;AF=0.743;AN=70;DP=363;FS=0.0
41520	chrY	19368842	.	C	G	336.48	PASS	AC=2;AF=0.029;AN=70;DP=536;FS=0.0
41521	chrY	19370916	.	G	A	1143.85	PASS	AC=6;AF=0.086;AN=70;DP=497;FS=0.0
41522	chrY	19371568	.	A	G	1326.73	PASS	AC=6;AF=0.088;AN=68;DP=405;FS=0.0
41523	chrY	19372386	.	T	G	2267.74	PASS	AC=34;AF=0.654;AN=52;DP=251;FS=0.0
41524	chrY	19372700	.	G	A	909.68	PASS	AC=6;AF=0.086;AN=70;DP=511;FS=0.0
41525	chrY	19375658	.	G	C	1310.18	PASS	AC=6;AF=0.333;AN=18;DP=165;FS=0.0
41526	chrY	19376983	.	C	T	225.41	PASS	AC=4;AF=0.182;AN=22;DP=99;FS=0.00
41527	chrY	19380397	.	A	G	1214.12	PASS	AC=6;AF=0.094;AN=64;DP=316;FS=0.0
41528	chrY	19384549	.	A	T	1252.08	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
41529	chrY	19389735	.	G	A	88.81	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
41530	chrY	19389740	.	G	A	83.46	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
41531	chrY	19405037	.	T	G	1477.11	PASS	AC=6;AF=0.097;AN=62;DP=248;FS=0.0
41532	chrY	19405469	.	C	G	1119.19	PASS	AC=6;AF=0.086;AN=70;DP=678;FS=0.0
41533	chrY	19406997	.	T	C	1235.97	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.0
41534	chrY	19411754	.	G	A	8238.63	PASS	AC=50;AF=0.735;AN=68;DP=394;FS=0.0
41535	chrY	19411985	.	A	G	150.89	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41536	chrY	19413283	.	A	T	197.34	PASS	AC=4;AF=0.063;AN=64;DP=238;FS=0.0
41537	chrY	19416670	.	C	A	4255.10	PASS	AC=32;AF=0.571;AN=56;DP=349;FS=0.0
41538	chrY	19417241	.	A	G	6880.27	PASS	AC=60;AF=1.00;AN=60;DP=247;FS=0.0
41539	chrY	19417394	.	C	A	9329.02	PASS	AC=60;AF=1.00;AN=60;DP=334;FS=0.0
41540	chrY	19418178	.	C	T	3198.16	PASS	AC=22;AF=1.00;AN=22;BaseQRankSum=
41541	chrY	19421627	.	C	G	284.77	PASS	AC=4;AF=0.059;AN=68;DP=302;FS=0.0
41542	chrY	19425608	.	G	C	3519.86	PASS	AC=18;AF=1.00;AN=18;DP=158;FS=0.0
41543	chrY	19427172	.	T	C	1126.63	PASS	AC=6;AF=0.273;AN=22;DP=195;FS=0.0
41544	chrY	19430898	.	G	T	36.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41545	chrY	19430906	.	G	T	37.08	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41546	chrY	19433111	.	T	G	1011.47	PASS	AC=6;AF=0.088;AN=68;DP=301;FS=0.0
41547	chrY	19437769	.	C	A	38.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41548	chrY	19439452	.	G	T	355.90	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
41549	chrY	19442691	.	G	A	414.64	PASS	AC=2;AF=0.029;AN=68;DP=355;FS=0.0
41550	chrY	19451784	.	G	T	563.74	PASS	AC=2;AF=0.029;AN=70;DP=376;FS=0.0
41551	chrY	19457443	.	A	G	13346.94	PASS	AC=52;AF=0.743;AN=70;DP=5
41552	chrY	19462180	.	T	C	8922.12	PASS	AC=68;AF=1.00;AN=68;DP=306;FS=0.0
41553	chrY	19463273	.	C	T	13370.90	PASS	AC=68;AF=1.00;AN=68;BaseQ
41554	chrY	19467946	.	T	C	894.52	PASS	AC=6;AF=0.086;AN=70;DP=295;FS=0.0
41555	chrY	19469865	.	C	T	90.88	PASS	AC=2;AF=0.059;AN=34;DP=139;FS=0.0
41556	chrY	19469886	.	C	A	441.82	PASS	AC=6;AF=0.214;AN=28;DP=106;FS=0.0
41557	chrY	19470230	.	C	G	1146.13	PASS	AC=6;AF=0.086;AN=70;DP=355;FS=0.0
41558	chrY	19471097	.	A	G	495.18	PASS	AC=6;AF=0.091;AN=66;DP=282;FS=0.0
41559	chrY	19476605	.	T	C	37.12	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
41560	chrY	19476809	.	C	A	590.11	PASS	AC=12;AF=0.333;AN=36;DP=166;FS=0.0
41561	chrY	19480880	.	T	C	1302.89	PASS	AC=6;AF=0.088;AN=68;DP=277;FS=0.0
41562	chrY	19483845	.	G	C	70.04	PASS	AC=2;AF=0.032;AN=62;DP=230;FS=0.0
41563	chrY	19488919	.	T	C	61.42	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
41564	chrY	19489856	.	G	T	227.70	PASS	AC=2;AF=0.029;AN=70;DP=547;FS=0.0
41565	chrY	19490184	.	T	C	47.57	PASS	AC=2;AF=0.030;AN=66;DP=342;FS=0.0
41566	chrY	19490437	.	A	G	11703.15	PASS	AC=52;AF=0.743;AN=70;DP=5
41567	chrY	19492677	.	A	G	3676.91	PASS	AC=32;AF=0.571;AN=56;DP=297;FS=0.0
41568	chrY	19495839	.	A	G	842	PASS	AC=6;AF=0.086;AN=70;DP=386;FS=0.0
41569	chrY	19495908	.	A	G	1150.86	PASS	AC=6;AF=0.086;AN=70;DP=416;FS=0.0
41570	chrY	19499040	.	T	A	414.88	PASS	AC=2;AF=0.029;AN=70;DP=298;FS=0.0
41571	chrY	19500986	.	G	A	5511.18	PASS	AC=46;AF=0.719;AN=64;DP=294;FS=0.0
41572	chrY	19502094	.	T	A	339.90	PASS	AC=6;AF=0.091;AN=66;DP=278;FS=0.0

41573	chrY	19504659	.	A	T	5792.21	PASS	AC=54;AF=1.00;AN=54;DP=205;FS=0.0
41574	chrY	19510292	.	G	T	35.31	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
41575	chrY	19510294	.	A	T	34.68	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
41576	chrY	19513004	.	G	T	82.38	PASS	AC=2;AF=0.029;AN=70;DP=346;FS=0.0
41577	chrY	19513070	.	C	T	1311.98	PASS	AC=12;AF=0.176;AN=68;DP=385;FS=0.
41578	chrY	19515280	.	A	G	741.29	PASS	AC=6;AF=0.088;AN=68;DP=414;FS=0.0
41579	chrY	19515450	.	G	T	499.38	PASS	AC=2;AF=0.029;AN=70;DP=413;FS=0.0
41580	chrY	19524921	.	G	A	212.41	PASS	AC=2;AF=0.029;AN=70;DP=506;FS=0.0
41581	chrY	19525037	.	T	C	47.23	PASS	AC=2;AF=0.029;AN=70;DP=451;FS=0.0
41582	chrY	19525191	.	G	A	1209.09	PASS	AC=6;AF=0.086;AN=70;DP=546;FS=0.0
41583	chrY	19525421	.	C	T	14371.30	PASS	AC=52;AF=0.743;AN=70;BaseQ
41584	chrY	19537289	.	C	T	104.98	PASS	AC=2;AF=0.029;AN=68;DP=278;FS=0.0
41585	chrY	19537991	.	A	C	880.49	PASS	AC=6;AF=0.086;AN=70;DP=451;FS=0.0
41586	chrY	19539300	.	A	T	376.24	PASS	AC=2;AF=0.029;AN=70;DP=427;FS=0.0
41587	chrY	19542811	.	G	A	569.16	PASS	AC=6;AF=0.086;AN=70;DP=442;FS=0.0
41588	chrY	19543300	.	G	T	1089.13	PASS	AC=6;AF=0.088;AN=68;DP=355;FS=0.0
41589	chrY	19547187	.	C	A	31.51	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
41590	chrY	19547218	.	T	C	49.65	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
41591	chrY	19547223	.	G	A	47.81	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
41592	chrY	19547230	.	G	T	50.13	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
41593	chrY	19551340	.	T	C	14912.93	PASS	AC=52;AF=0.743;AN=70;DP=4
41594	chrY	19555082	.	G	A	53.96	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41595	chrY	19561148	.	C	G	678.96	PASS	AC=6;AF=0.300;AN=20;DP=165;FS=0.0
41596	chrY	19561202	.	C	T	1347.64	PASS	AC=6;AF=0.273;AN=22;DP=164;FS=0.0
41597	chrY	19561883	.	C	G	1535.95	PASS	AC=6;AF=0.300;AN=20;DP=191;FS=0.0
41598	chrY	19562066	.	C	T	1732.18	PASS	AC=6;AF=0.333;AN=18;DP=171;FS=0.0
41599	chrY	19562084	.	T	G	1935.78	PASS	AC=6;AF=0.300;AN=20;DP=184;FS=0.0
41600	chrY	19562455	.	T	A	1231.75	PASS	AC=6;AF=0.300;AN=20;DP=173;FS=0.0
41601	chrY	19563188	.	G	T	187.41	PASS	AC=4;AF=0.059;AN=68;DP=295;FS=0.0
41602	chrY	19576142	.	T	C	416.30	my_snp_filter	AC=10;AF=0.714;AN=14;BaseQ
41603	chrY	19583030	.	G	A	84.31	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
41604	chrY	19583035	.	A	G	371.92	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
41605	chrY	19583037	.	C	A	371.92	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
41606	chrY	19583038	.	C	G	371.92	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
41607	chrY	19583072	.	T	G	265.99	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
41608	chrY	19583081	.	G	A	261	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
41609	chrY	19583092	.	G	A	125.34	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
41610	chrY	19583095	.	T	A	258	my_snp_filter	AC=7;AF=0.350;AN=20;BaseQ
41611	chrY	19583100	.	G	C	251.87	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
41612	chrY	19583104	.	C	T	247.54	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
41613	chrY	19583108	.	A	G	248.87	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
41614	chrY	19583115	.	G	T	124.52	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
41615	chrY	19583118	.	T	G	212.88	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
41616	chrY	19583119	.	T	A	206.93	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
41617	chrY	19583123	.	T	C	58.42	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
41618	chrY	19583130	.	T	G	60.91	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41619	chrY	19583135	.	G	A	57.95	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41620	chrY	19583138	.	G	A	51.52	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
41621	chrY	19583155	.	T	A	40.79	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
41622	chrY	19583333	.	C	T	85.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41623	chrY	19583334	.	T	G	83.74	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41624	chrY	19583341	.	G	A	81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41625	chrY	19583345	.	A	T	159.86	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41626	chrY	19583350	.	C	A	159.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41627	chrY	19583354	.	A	C	150.88	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41628	chrY	19583358	.	A	T	144.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
41629	chrY	19583361	.	A	G	309.84	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
41630	chrY	19583363	.	G	A	305.91	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
41631	chrY	19583366	.	T	C	306.13	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
41632	chrY	19583367	.	G	A	305.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
41633	chrY	19583397	.	C	A	65.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
41634	chrY	19583407	.	C	A	79.56	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
41635	chrY	19583429	.	C	G	96.88	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
41636	chrY	19583432	.	T	G	101.56	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
41637	chrY	19583439	.	T	C	104.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
41638	chrY	19583443	.	A	C	102.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
41639	chrY	19583444	.	T	A	102.88	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
41640	chrY	19583451	.	C	T	49	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
41641	chrY	19583453	.	G	C	10518.82	my_snp_filter	AC=46;AF=0.719;AN
41642	chrY	19583629	.	A	G	685.99	my_snp_filter	AC=6;AF=0.300;AN=20;DP=68
41643	chrY	19631225	.	A	T	491	my_snp_filter	AC=6;AF=0.103;AN=58;DP=47
41644	chrY	19746097	.	C	A	282.69	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
41645	chrY	19753731	.	C	T	441.08	my_snp_filter	AC=6;AF=0.300;AN=20;DP=91
41646	chrY	19793913	.	A	G	35.98	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
41647	chrY	19812607	.	T	C	347.91	my_snp_filter	AC=6;AF=0.333;AN=18;DP=48
41648	chrY	19936492	.	T	C	238.09	PASS	AC=6;AF=0.600;AN=10;DP=19;FS=0.00

41649	chrY	19937356	.	G	A	40.76	my_snp_filter	AC=2;AF=0.333;AN=6;DP=11;
41650	chrY	19966779	.	T	C	75.96	my_snp_filter	AC=2;AF=0.083;AN=24;DP=76
41651	chrY	19967464	.	T	A	47.13	my_snp_filter	AC=2;AF=0.500;AN=4;DP=13;
41652	chrY	19986086	.	A	T	2110.36	my_snp_filter	AC=17;AF=0.243;AN=70;Base
41653	chrY	20000418	.	A	G	636.16	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
41654	chrY	20063661	.	G	A	787.39	PASS	AC=4;AF=0.059;AN=68;DP=391;FS=0.0
41655	chrY	20105652	.	T	C	491.79	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
41656	chrY	20105942	.	G	A	195.49	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
41657	chrY	20114265	.	G	A	134.15	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
41658	chrY	20132001	.	A	G	114.98	PASS	AC=8;AF=1.00;AN=8;DP=19;FS=0.000;
41659	chrY	20137429	.	A	G	173.02	my_snp_filter	AC=2;AF=0.031;AN=64;DP=30
41660	chrY	20137624	.	T	C	149.02	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
41661	chrY	20137794	.	G	A	687.34	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
41662	chrY	20242374	.	A	G	50.31	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
41663	chrY	20366770	.	C	T	725.46	my_snp_filter	AC=6;AF=0.103;AN=58;DP=14
41664	chrY	20379674	.	G	C	301.96	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
41665	chrY	20408595	.	G	A	273.94	my_snp_filter	AC=4;AF=0.500;AN=8;DP=27;
41666	chrY	20434394	.	G	A	45.60	my_snp_filter	AC=2;AF=0.250;AN=8;DP=7;F
41667	chrY	20454868	.	G	C	70.35	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
41668	chrY	20554062	.	C	A	58.65	my_snp_filter	AC=2;AF=0.250;AN=8;BaseQ
41669	chrY	20596320	.	C	G	809.61	my_snp_filter	AC=6;AF=0.107;AN=56;DP=36
41670	chrY	20657052	.	T	C	1002.39	my_snp_filter	AC=6;AF=0.111;AN=54;DP=30
41671	chrY	20659109	.	G	A	291.14	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
41672	chrY	20736297	.	G	A	32.81	my_snp_filter	AC=2;AF=0.036;AN=56;DP=24
41673	chrY	20736310	.	A	G	5575.52	my_snp_filter	AC=43;AF=0.827;AN=52;Base
41674	chrY	20802151	.	C	T	671.83	PASS	AC=6;AF=0.086;AN=70;DP=229;FS=0.0
41675	chrY	20805003	.	A	G	85.53	PASS	AC=2;AF=0.029;AN=70;DP=280;FS=0.0
41676	chrY	20811307	.	A	G	11645.98	PASS	AC=68;AF=1.00;AN=68;DP=38
41677	chrY	20812228	.	C	T	11019	PASS	AC=68;AF=1.00;AN=68;DP=371;FS=0.0
41678	chrY	20815591	.	C	G	922.63	PASS	AC=6;AF=0.086;AN=70;DP=229;FS=0.0
41679	chrY	20825072	.	G	A	6636.74	PASS	AC=52;AF=0.743;AN=70;DP=364;FS=0.
41680	chrY	20828795	.	A	G	17573.87	PASS	AC=70;AF=1.00;AN=70;DP=63
41681	chrY	20835461	.	C	G	602.65	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
41682	chrY	20835468	.	C	G	183.86	PASS	AC=4;AF=0.069;AN=58;DP=302;FS=0.0
41683	chrY	20837553	.	T	C	5302.49	PASS	AC=50;AF=0.806;AN=62;DP=287;FS=0.
41684	chrY	20838224	.	G	A	14848.94	PASS	AC=70;AF=1.00;AN=70;DP=51
41685	chrY	20839063	.	A	G	778.34	PASS	AC=6;AF=0.086;AN=70;DP=605;FS=0.0
41686	chrY	20839716	.	T	C	1006.33	PASS	AC=6;AF=0.086;AN=70;DP=270;FS=0.0
41687	chrY	20957817	.	A	G	156.27	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
41688	chrY	20985099	.	C	T	162.87	my_snp_filter	AC=2;AF=0.030;AN=66;DP=70
41689	chrY	21039089	.	T	C	98.36	PASS	AC=2;AF=0.029;AN=68;DP=374;FS=0.0
41690	chrY	21046000	.	T	C	3361.50	PASS	AC=40;AF=0.690;AN=58;DP=278;FS=0.
41691	chrY	21046119	.	A	G	1066.39	PASS	AC=6;AF=0.111;AN=54;DP=187;FS=0.0
41692	chrY	21050697	.	A	G,*	2661.25	PASS	AC=6,14;AF=0.091,0.212;AN=66;DP=2
41693	chrY	21051253	.	C	G	1222.39	PASS	AC=6;AF=0.086;AN=70;DP=433;FS=0.0
41694	chrY	21053143	.	T	A	1291.57	PASS	AC=6;AF=0.086;AN=70;DP=583;FS=0.0
41695	chrY	21053145	.	A	T	1438.68	PASS	AC=6;AF=0.086;AN=70;DP=572;FS=0.0
41696	chrY	21054334	.	G	A	275.38	PASS	AC=2;AF=0.037;AN=54;DP=144;FS=0.0
41697	chrY	21063654	.	A	G	533.47	PASS	AC=2;AF=0.029;AN=70;DP=477;FS=0.0
41698	chrY	21066184	.	G	C	234.35	PASS	AC=2;AF=0.043;AN=46;DP=188;FS=0.0
41699	chrY	21077636	.	C	T	585.75	PASS	AC=2;AF=0.100;AN=20;DP=181;FS=0.0
41700	chrY	21080707	.	G	A	10238.79	PASS	AC=54;AF=0.818;AN=66;DP=4
41701	chrY	21087879	.	C	T	1061.92	PASS	AC=6;AF=0.086;AN=70;DP=405;FS=0.0
41702	chrY	21089620	.	C	T	1025.84	PASS	AC=6;AF=0.088;AN=68;DP=427;FS=0.0
41703	chrY	21091703	.	A	G	45.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41704	chrY	21092908	.	A	G	37.43	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41705	chrY	21093637	.	C	G	4341.42	PASS	AC=42;AF=0.700;AN=60;DP=287;FS=0.
41706	chrY	21101486	.	A	G	31.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41707	chrY	21103141	.	C	T	45.06	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
41708	chrY	21103144	.	G	T	45.14	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
41709	chrY	21108189	.	G	T	13860.39	PASS	AC=46;AF=0.657;AN=70;DP=6
41710	chrY	21114597	.	C	G	5944.73	PASS	AC=48;AF=0.727;AN=66;DP=346;FS=0.
41711	chrY	21116317	.	C	A	1344.87	PASS	AC=6;AF=0.086;AN=70;DP=588;FS=0.0
41712	chrY	21116585	.	C	T	322.39	PASS	AC=6;AF=0.086;AN=70;DP=379;FS=0.0
41713	chrY	21117439	.	C	T	1157.91	PASS	AC=6;AF=0.231;AN=26;DP=166;FS=0.0
41714	chrY	21117888	.	C	T	14930.89	PASS	AC=66;AF=1.00;AN=66;DP=49
41715	chrY	21118218	.	C	A	809.18	PASS	AC=6;AF=0.097;AN=62;DP=216;FS=0.0
41716	chrY	21121986	.	T	A	6127.21	PASS	AC=48;AF=1.00;AN=48;DP=222;FS=0.0
41717	chrY	21126496	.	T	C	1383.97	PASS	AC=6;AF=0.086;AN=70;DP=437;FS=0.0
41718	chrY	21127920	.	A	G	1021.43	PASS	AC=6;AF=0.086;AN=70;DP=515;FS=0.0
41719	chrY	21131856	.	A	G	2740.81	PASS	AC=26;AF=0.419;AN=62;DP=318;FS=0.
41720	chrY	21132049	.	T	C	3454.98	PASS	AC=48;AF=0.727;AN=66;DP=288;FS=0.
41721	chrY	21134763	.	T	G	447.36	PASS	AC=4;AF=0.100;AN=40;DP=159;FS=0.0
41722	chrY	21136028	.	T	G	263.82	PASS	AC=4;AF=0.059;AN=68;DP=426;FS=0.0
41723	chrY	21139399	.	A	C	7493.08	PASS	AC=56;AF=1.00;AN=56;DP=257;FS=0.0
41724	chrY	21147336	.	C	T	6107.51	PASS	AC=52;AF=0.813;AN=64;DP=307;FS=0.

41725	chrY	21152701	.	G	T	20576.73	PASS	AC=35;AF=0.500;AN=70;Base
41726	chrY	21152718	.	C	A	126.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41727	chrY	21152719	.	T	C	19856.61	PASS	AC=34;AF=0.486;AN=70;Base
41728	chrY	21152731	.	G	C	19446.97	PASS	AC=34;AF=0.486;AN=70;Base
41729	chrY	21152795	.	A	G	5483.65	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
41730	chrY	21152862	.	C	A	24347.72	PASS	AC=35;AF=0.500;AN=70;Base
41731	chrY	21152868	.	T	G	24042.72	PASS	AC=35;AF=0.500;AN=70;Base
41732	chrY	21152967	.	A	G	18588.59	PASS	AC=35;AF=0.500;AN=70;Base
41733	chrY	21152971	.	C	T	15120.53	PASS	AC=34;AF=0.486;AN=70;Base
41734	chrY	21153096	.	G	A	16741.73	PASS	AC=35;AF=0.500;AN=70;Base
41735	chrY	21153166	.	T	A	22347.72	PASS	AC=35;AF=0.500;AN=70;Base
41736	chrY	21153174	.	T	A	21857.72	PASS	AC=35;AF=0.500;AN=70;Base
41737	chrY	21153275	.	A	G	4873.30	PASS	AC=24;AF=0.414;AN=58;BaseQRankSum
41738	chrY	21153458	.	C	T	46.95	PASS	AC=2;AF=0.032;AN=62;DP=470;FS=0.0
41739	chrY	21153459	.	A	G	10972.67	PASS	AC=30;AF=0.500;AN=60;Base
41740	chrY	21153474	.	A	G	11572.52	PASS	AC=30;AF=0.500;AN=60;Base
41741	chrY	21153540	.	C	T	8201	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
41742	chrY	21153581	.	T	A	233.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41743	chrY	21153609	.	T	C	33055.73	PASS	AC=35;AF=0.500;AN=70;Base
41744	chrY	21153667	.	C	A	31484.72	PASS	AC=35;AF=0.500;AN=70;Base
41745	chrY	21153740	.	C	T	25233.76	PASS	AC=35;AF=0.500;AN=70;Base
41746	chrY	21153846	.	A	T	28077.97	PASS	AC=36;AF=0.514;AN=70;Base
41747	chrY	21153854	.	C	T	27224.97	PASS	AC=36;AF=0.514;AN=70;Base
41748	chrY	21153936	.	A	G	808.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
41749	chrY	21154004	.	A	C	19579.89	PASS	AC=35;AF=0.500;AN=70;Base
41750	chrY	21154323	.	G	A	25131.72	PASS	AC=35;AF=0.500;AN=70;Base
41751	chrY	21154426	.	G	A	5359.80	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
41752	chrY	21154466	.	T	A	9841.86	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
41753	chrY	21154531	.	G	A	44.77	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
41754	chrY	21154535	.	G	A	46.30	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
41755	chrY	21154569	.	A	G	2868.62	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum
41756	chrY	21154603	.	A	C	4040.98	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
41757	chrY	21154675	.	A	G	546.41	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
41758	chrY	21154684	.	G	A	707.64	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
41759	chrY	21154692	.	A	G	724.69	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
41760	chrY	21154700	.	A	C	992.35	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
41761	chrY	21154779	.	C	G	2795.13	PASS	AC=16;AF=0.444;AN=36;BaseQRankSum
41762	chrY	21154790	.	G	T	142.51	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
41763	chrY	21154904	.	C	T	7040.52	PASS	AC=26;AF=0.481;AN=54;BaseQRankSum
41764	chrY	21154937	.	G	A	6962.83	PASS	AC=30;AF=0.500;AN=60;BaseQRankSum
41765	chrY	21154966	.	C	G	7234.35	PASS	AC=31;AF=0.534;AN=58;BaseQRankSum
41766	chrY	21155023	.	A	G	5851.23	PASS	AC=25;AF=0.481;AN=52;BaseQRankSum
41767	chrY	21155091	.	G	C	689.24	PASS	AC=6;AF=0.158;AN=38;DP=250;FS=0.0
41768	chrY	21159055	.	A	C	13252.95	PASS	AC=68;AF=1.00;AN=68;DP=44
41769	chrY	21165594	.	T	G	130.09	PASS	AC=2;AF=0.029;AN=70;DP=422;FS=0.0
41770	chrY	21166358	.	G	T	6090.20	PASS	AC=56;AF=1.00;AN=56;DP=209;FS=0.0
41771	chrY	21170975	.	A	G	139.81	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
41772	chrY	21172620	.	G	C	793.24	PASS	AC=6;AF=0.176;AN=34;DP=161;FS=0.0
41773	chrY	21177080	.	G	A	566.68	PASS	AC=14;AF=1.00;AN=14;DP=25;FS=0.00
41774	chrY	21183643	.	G	A	6344.20	PASS	AC=60;AF=1.00;AN=60;DP=233;FS=0.0
41775	chrY	21186558	.	A	G	11040.95	PASS	AC=46;AF=0.719;AN=64;DP=5
41776	chrY	21189443	.	G	A	186.67	PASS	AC=2;AF=0.032;AN=62;DP=172;FS=0.0
41777	chrY	21190881	.	T	A	36.08	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
41778	chrY	21193291	.	A	G	815.58	PASS	AC=6;AF=0.088;AN=68;DP=351;FS=0.0
41779	chrY	21208641	.	G	C	142.97	PASS	AC=2;AF=0.038;AN=52;DP=234;FS=0.0
41780	chrY	21213313	.	C	A	349.04	PASS	AC=12;AF=0.316;AN=38;DP=181;FS=0.0
41781	chrY	21219443	.	G	A	18305.91	PASS	AC=70;AF=1.00;AN=70;BaseQ
41782	chrY	21221551	.	G	T	9418.96	PASS	AC=26;AF=0.371;AN=70;DP=668;FS=0.0
41783	chrY	21222868	.	G	C	11645.95	PASS	AC=70;AF=1.00;AN=70;DP=38
41784	chrY	21224566	.	G	A	1464.87	PASS	AC=4;AF=0.059;AN=68;DP=526;FS=0.0
41785	chrY	21227195	.	C	G	6504.41	PASS	AC=46;AF=0.657;AN=70;DP=394;FS=0.0
41786	chrY	21227423	.	G	T	359.45	PASS	AC=6;AF=0.097;AN=62;DP=188;FS=0.0
41787	chrY	21228954	.	T	C	364.36	PASS	AC=6;AF=0.086;AN=70;DP=370;FS=0.0
41788	chrY	21229917	.	C	T	812.16	PASS	AC=6;AF=0.086;AN=70;DP=566;FS=0.0
41789	chrY	21230995	.	C	T	7491.20	PASS	AC=44;AF=0.647;AN=68;BaseQRankSum
41790	chrY	21245171	.	G	A	33.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41791	chrY	21245174	.	A	T	33.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41792	chrY	21245176	.	C	T	33.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41793	chrY	21245607	.	C	T	1359.21	PASS	AC=6;AF=0.086;AN=70;DP=524;FS=0.0
41794	chrY	21245693	.	G	T	710.20	PASS	AC=6;AF=0.086;AN=70;DP=362;FS=0.0
41795	chrY	21249370	.	A	G	857.38	PASS	AC=6;AF=0.086;AN=70;DP=529;FS=0.0
41796	chrY	21252070	.	G	A	11905.33	PASS	AC=40;AF=0.571;AN=70;DP=6
41797	chrY	21256680	.	C	T	3443.60	PASS	AC=33;AF=0.516;AN=64;BaseQRankSum
41798	chrY	21256746	.	C	A	370.32	PASS	AC=4;AF=0.059;AN=68;DP=316;FS=0.0
41799	chrY	21258577	.	G	A	1538.76	PASS	AC=6;AF=0.088;AN=68;DP=605;FS=0.0
41800	chrY	21260907	.	T	G	160.48	PASS	AC=4;AF=0.065;AN=62;DP=208;FS=0.0

41801	chrY	21262445	.	C	G	30.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41802	chrY	21262465	.	C	T	1086.33	PASS	AC=6;AF=0.088;AN=68;DP=420;FS=0.0
41803	chrY	21263029	.	A	G	12733.94	PASS	AC=70;AF=1.00;AN=70;BaseQ
41804	chrY	21263902	.	A	G	14955.16	PASS	AC=46;AF=0.657;AN=70;Base
41805	chrY	21269484	.	A	C	1081.71	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
41806	chrY	21269852	.	T	A	984.65	PASS	AC=6;AF=0.086;AN=70;DP=363;FS=0.0
41807	chrY	21272878	.	C	T	1002.27	PASS	AC=6;AF=0.088;AN=68;DP=379;FS=0.0
41808	chrY	21273057	.	G	T	1368.12	PASS	AC=6;AF=0.097;AN=62;DP=353;FS=0.0
41809	chrY	21278679	.	T	C	988.35	PASS	AC=6;AF=0.086;AN=70;DP=637;FS=0.0
41810	chrY	21279461	.	C	T	1457.20	PASS	AC=6;AF=0.333;AN=18;DP=140;FS=0.0
41811	chrY	21283111	.	A	T	1344.09	PASS	AC=6;AF=0.143;AN=42;DP=198;FS=0.0
41812	chrY	21284447	.	G	T	2077.29	PASS	AC=36;AF=0.621;AN=58;DP=226;FS=0.
41813	chrY	21285190	.	A	T	41.66	PASS	AC=2;AF=0.037;AN=54;DP=194;FS=0.0
41814	chrY	21285494	.	A	C	1375.10	PASS	AC=6;AF=0.250;AN=24;DP=178;FS=0.0
41815	chrY	21285962	.	A	T	1379.21	PASS	AC=6;AF=0.086;AN=70;DP=665;FS=0.0
41816	chrY	21290339	.	A	C	312.72	PASS	AC=2;AF=0.029;AN=70;DP=435;FS=0.0
41817	chrY	21291275	.	G	A	5942.50	PASS	AC=50;AF=0.735;AN=68;DP=357;FS=0.
41818	chrY	21291828	.	C	G	634.70	PASS	AC=6;AF=0.088;AN=68;DP=276;FS=0.0
41819	chrY	21292853	.	T	C	320.01	PASS	AC=2;AF=0.029;AN=68;DP=383;FS=0.0
41820	chrY	21297263	.	T	C	1001.58	PASS	AC=6;AF=0.086;AN=70;DP=394;FS=0.0
41821	chrY	21298239	.	G	C	11645.95	PASS	AC=68;AF=1.00;AN=68;DP=39
41822	chrY	21302198	.	G	C	377.94	PASS	AC=4;AF=0.057;AN=70;DP=688;FS=0.0
41823	chrY	21306315	.	G	A	621.75	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
41824	chrY	21307871	.	A	C	5320.73	PASS	AC=40;AF=0.571;AN=70;DP=392;FS=0.
41825	chrY	21308145	.	G	C	8865.15	PASS	AC=38;AF=0.559;AN=68;DP=555;FS=0.
41826	chrY	21312064	.	A	C	6748.21	PASS	AC=62;AF=1.00;AN=62;DP=240;FS=0.0
41827	chrY	21314518	.	G	A	306.55	PASS	AC=2;AF=0.029;AN=68;DP=267;FS=0.0
41828	chrY	21320604	.	C	A	3756.41	PASS	AC=32;AF=0.571;AN=56;DP=370;FS=0.
41829	chrY	21320664	.	C	A	1181	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
41830	chrY	21323286	.	C	T	1511.30	PASS	AC=10;AF=0.455;AN=22;DP=156;FS=0.
41831	chrY	21323834	.	C	T	414.68	PASS	AC=2;AF=0.056;AN=36;DP=183;FS=0.0
41832	chrY	21323986	.	C	T	436.08	PASS	AC=2;AF=0.029;AN=68;DP=476;FS=0.0
41833	chrY	21325729	.	G	A	1093.84	PASS	AC=6;AF=0.300;AN=20;DP=133;FS=0.0
41834	chrY	21326878	.	G	A	10151.12	PASS	AC=52;AF=0.743;AN=70;DP=4
41835	chrY	21331373	.	C	T	207.99	PASS	AC=2;AF=0.029;AN=70;DP=403;FS=0.0
41836	chrY	21332179	.	A	G	1185.95	PASS	AC=6;AF=0.086;AN=70;DP=499;FS=0.0
41837	chrY	21332417	.	C	T	441.42	PASS	AC=4;AF=0.061;AN=66;DP=400;FS=0.0
41838	chrY	21338286	.	C	T	1485.74	PASS	AC=6;AF=0.300;AN=20;DP=177;FS=0.0
41839	chrY	21340827	.	C	T	723.79	PASS	AC=6;AF=0.086;AN=70;DP=397;FS=0.0
41840	chrY	21348329	.	G	A	1542.75	PASS	AC=6;AF=0.300;AN=20;DP=162;FS=0.0
41841	chrY	21350208	.	T	C	591.02	PASS	AC=2;AF=0.111;AN=18;DP=177;FS=0.0
41842	chrY	21356191	.	G	A	440.20	PASS	AC=2;AF=0.029;AN=70;DP=535;FS=0.0
41843	chrY	21358553	.	A	G	15492.91	PASS	AC=70;AF=1.00;AN=70;DP=51
41844	chrY	21359174	.	C	T	1180.79	PASS	AC=6;AF=0.086;AN=70;DP=477;FS=0.0
41845	chrY	21365572	.	C	A	928.40	PASS	AC=6;AF=0.086;AN=70;DP=528;FS=0.0
41846	chrY	21367157	.	C	A	240.16	PASS	AC=4;AF=0.063;AN=64;DP=236;FS=0.0
41847	chrY	21367244	.	T	G	75.67	PASS	AC=2;AF=0.056;AN=36;DP=139;FS=0.0
41848	chrY	21369624	.	A	G	1442.01	PASS	AC=6;AF=0.086;AN=70;DP=506;FS=0.0
41849	chrY	21373816	.	T	G	925.33	PASS	AC=6;AF=0.111;AN=54;DP=168;FS=0.0
41850	chrY	21374056	.	C	T	643.41	PASS	AC=2;AF=0.029;AN=70;DP=551;FS=0.0
41851	chrY	21381973	.	G	A	670.74	PASS	AC=4;AF=0.057;AN=70;DP=409;FS=0.0
41852	chrY	21382007	.	G	A	66.14	PASS	AC=2;AF=0.029;AN=70;DP=404;FS=0.0
41853	chrY	21385679	.	A	G	772.98	PASS	AC=6;AF=0.200;AN=30;DP=144;FS=0.0
41854	chrY	21390072	.	G	C	738.80	PASS	AC=6;AF=0.086;AN=70;DP=479;FS=0.0
41855	chrY	21392318	.	T	G	749.69	PASS	AC=6;AF=0.088;AN=68;DP=447;FS=0.0
41856	chrY	21397457	.	A	G	1859.04	PASS	AC=12;AF=0.222;AN=54;DP=245;FS=0.
41857	chrY	21398584	.	T	A	1176.30	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
41858	chrY	21401751	.	G	A	1207.99	PASS	AC=6;AF=0.086;AN=70;DP=657;FS=0.0
41859	chrY	21409706	.	C	G	8715.03	PASS	AC=70;AF=1.00;AN=70;DP=316;FS=0.0
41860	chrY	21410840	.	T	G	10415.01	PASS	AC=66;AF=1.00;AN=66;DP=35
41861	chrY	21424831	.	T	A	1260.20	PASS	AC=6;AF=0.086;AN=70;DP=437;FS=0.0
41862	chrY	21425000	.	T	C	584.40	PASS	AC=6;AF=0.088;AN=68;DP=336;FS=0.0
41863	chrY	21425257	.	C	G	477.45	PASS	AC=6;AF=0.086;AN=70;DP=283;FS=0.0
41864	chrY	21427199	.	C	T	1184.30	PASS	AC=6;AF=0.091;AN=66;DP=254;FS=0.0
41865	chrY	21427599	.	A	G	967.02	PASS	AC=6;AF=0.086;AN=70;DP=611;FS=0.0
41866	chrY	21432591	.	A	G	941.60	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.0
41867	chrY	21433601	.	C	T	1034.53	PASS	AC=6;AF=0.086;AN=70;DP=624;FS=0.0
41868	chrY	21445546	.	C	T	206.65	PASS	AC=2;AF=0.029;AN=68;DP=281;FS=0.0
41869	chrY	21447844	.	T	A	4827.86	PASS	AC=18;AF=1.00;AN=18;DP=190;FS=0.0
41870	chrY	21447936	.	T	C	2544.07	PASS	AC=12;AF=0.600;AN=20;BaseQRankSum
41871	chrY	21452617	.	G	A	1094.20	PASS	AC=6;AF=0.086;AN=70;DP=333;FS=0.0
41872	chrY	21456883	.	A	G	10822.06	PASS	AC=68;AF=1.00;AN=68;DP=38
41873	chrY	21458554	.	C	T	383.47	PASS	AC=2;AF=0.029;AN=70;DP=488;FS=0.0
41874	chrY	21458735	.	A	G	1113.51	PASS	AC=6;AF=0.094;AN=64;DP=258;FS=0.0
41875	chrY	21460961	.	T	C	1522.14	PASS	AC=6;AF=0.086;AN=70;DP=588;FS=0.0
41876	chrY	21461232	.	T	C	1124.29	PASS	AC=6;AF=0.086;AN=70;DP=555;FS=0.0

41877	chrY	21461386	.	A	C	1841.41	PASS	AC=6;AF=0.086;AN=70;DP=439;FS=0.0
41878	chrY	21463509	.	A	C	837.01	PASS	AC=20;AF=0.526;AN=38;DP=179;FS=0.
41879	chrY	21467565	.	G	A	1067.02	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.0
41880	chrY	21467850	.	A	G	1024.32	PASS	AC=6;AF=0.200;AN=30;DP=144;FS=0.0
41881	chrY	21468798	.	G	A	349.41	PASS	AC=6;AF=0.088;AN=68;DP=265;FS=0.0
41882	chrY	21474401	.	T	G	3989.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
41883	chrY	21476910	.	G	T	11427.95	PASS	PASS AC=70;AF=1.00;AN=70;BaseQ
41884	chrY	21481847	.	A	G	450.67	PASS	AC=6;AF=0.088;AN=68;DP=387;FS=0.0
41885	chrY	21482611	.	G	A	7630.71	PASS	AC=52;AF=0.743;AN=70;DP=356;FS=0.
41886	chrY	21483285	.	G	A	1100.26	PASS	AC=6;AF=0.097;AN=62;DP=242;FS=0.0
41887	chrY	21484188	.	T	A	635.52	PASS	AC=4;AF=0.057;AN=70;DP=412;FS=0.0
41888	chrY	21484680	.	G	A	335.97	PASS	AC=4;AF=0.059;AN=68;DP=258;FS=0.0
41889	chrY	21484924	.	T	A	1531.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41890	chrY	21485578	.	G	A	1262.30	PASS	AC=6;AF=0.086;AN=70;DP=489;FS=0.0
41891	chrY	21486905	.	G	A	989.62	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
41892	chrY	21492272	.	C	T	293.06	PASS	AC=2;AF=0.029;AN=70;DP=361;FS=0.0
41893	chrY	21496525	.	C	T	60.58	PASS	AC=2;AF=0.029;AN=70;DP=470;FS=0.0
41894	chrY	21499869	.	T	G	3795.05	PASS	AC=53;AF=0.981;AN=54;BaseQRankSum=
41895	chrY	21502782	.	C	T	191.82	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
41896	chrY	21507294	.	C	G	12978.65	PASS	PASS AC=56;AF=0.824;AN=68;DP=5
41897	chrY	21509862	.	A	T	1189.65	PASS	AC=6;AF=0.103;AN=58;DP=215;FS=0.0
41898	chrY	21510833	.	T	C	313.09	PASS	AC=4;AF=0.071;AN=56;DP=211;FS=0.0
41899	chrY	21513607	.	C	T	9803	PASS	AC=62;AF=1.00;AN=62;DP=342;FS=0.0
41900	chrY	21515828	.	A	G	48.48	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41901	chrY	21515928	.	T	G	107.30	PASS	AC=2;AF=0.029;AN=68;DP=198;FS=0.0
41902	chrY	21522814	.	G	A	356.07	PASS	AC=2;AF=0.029;AN=68;DP=388;FS=0.0
41903	chrY	21525115	.	T	C	428.60	PASS	AC=2;AF=0.030;AN=66;DP=367;FS=0.0
41904	chrY	21527645	.	C	A	54.05	PASS	AC=2;AF=0.042;AN=48;DP=121;FS=0.0
41905	chrY	21528257	.	C	T	6221.18	PASS	AC=52;AF=1.00;AN=52;DP=228;FS=0.0
41906	chrY	21532389	.	G	T	8724.72	PASS	AC=50;AF=0.735;AN=68;DP=443;FS=0.
41907	chrY	21532835	.	G	A	2435.97	PASS	AC=12;AF=0.188;AN=64;DP=250;FS=0.
41908	chrY	21533418	.	G	A	3534.20	PASS	AC=40;AF=0.625;AN=64;DP=297;FS=0.
41909	chrY	21534408	.	C	A	84.27	PASS	AC=2;AF=0.029;AN=68;DP=236;FS=0.0
41910	chrY	21535176	.	T	A	98.54	PASS	AC=4;AF=0.125;AN=32;DP=153;FS=0.0
41911	chrY	21535480	.	C	T	51.26	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41912	chrY	21535495	.	A	T	92.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41913	chrY	21535531	.	G	T	47.34	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
41914	chrY	21535804	.	A	C	43.42	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41915	chrY	21537856	.	T	C	1178.01	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
41916	chrY	21539476	.	T	C	358.02	PASS	AC=2;AF=0.111;AN=18;DP=150;FS=0.0
41917	chrY	21540458	.	T	G	160.05	PASS	AC=2;AF=0.111;AN=18;DP=175;FS=0.0
41918	chrY	21542787	.	A	G	1539.15	PASS	AC=6;AF=0.088;AN=68;DP=630;FS=0.0
41919	chrY	21544295	.	A	T	1260.99	PASS	AC=6;AF=0.086;AN=70;DP=606;FS=0.0
41920	chrY	21547222	.	G	C	221.51	PASS	AC=2;AF=0.029;AN=70;DP=444;FS=0.0
41921	chrY	21549050	.	A	T	148.03	PASS	AC=2;AF=0.033;AN=60;DP=188;FS=0.0
41922	chrY	21549905	.	T	C	664.23	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
41923	chrY	21551607	.	A	G	88.84	PASS	AC=2;AF=0.100;AN=20;DP=52;FS=0.00
41924	chrY	21551652	.	T	C	377.26	PASS	AC=4;AF=0.250;AN=16;DP=46;FS=0.00
41925	chrY	21551712	.	T	C	524.84	PASS	AC=10;AF=0.833;AN=12;BaseQRankSum=
41926	chrY	21551793	.	G	A	250.17	PASS	AC=4;AF=1.00;AN=4;DP=28;FS=0.000;
41927	chrY	21553510	.	A	G	7946.44	PASS	AC=52;AF=0.743;AN=70;DP=386;FS=0.
41928	chrY	21553949	.	C	T	9517.48	PASS	AC=52;AF=0.743;AN=70;DP=463;FS=0.
41929	chrY	21554459	.	G	C	1083.71	PASS	AC=6;AF=0.086;AN=70;DP=237;FS=0.0
41930	chrY	21554468	.	A	G	4658.59	PASS	AC=51;AF=0.944;AN=54;BaseQRankSum=
41931	chrY	21556943	.	G	T	37.88	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
41932	chrY	21556945	.	C	T	35.87	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
41933	chrY	21558298	.	T	G	14086.91	PASS	PASS AC=70;AF=1.00;AN=70;BaseQ
41934	chrY	21560146	.	T	C	4924.11	PASS	AC=56;AF=1.00;AN=56;DP=222;FS=0.0
41935	chrY	21561705	.	G	A	710.26	PASS	AC=6;AF=0.167;AN=36;DP=114;FS=0.0
41936	chrY	21562115	.	C	T	870.22	PASS	AC=6;AF=0.088;AN=68;DP=264;FS=0.0
41937	chrY	21562790	.	C	A	1361.73	PASS	AC=6;AF=0.086;AN=70;DP=240;FS=0.0
41938	chrY	21562848	.	C	T	37.10	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41939	chrY	21562869	.	A	G	36.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41940	chrY	21565508	.	G	A	314.99	PASS	AC=2;AF=0.029;AN=68;DP=294;FS=0.0
41941	chrY	21566042	.	C	T	3876.14	PASS	AC=44;AF=0.688;AN=64;DP=280;FS=0.
41942	chrY	21566956	.	A	C	168.05	PASS	AC=2;AF=0.029;AN=68;DP=301;FS=0.0
41943	chrY	21567932	.	C	T	17848.64	PASS	PASS AC=58;AF=0.829;AN=70;DP=6
41944	chrY	21570974	.	A	G	17874.90	PASS	PASS AC=70;AF=1.00;AN=70;DP=66
41945	chrY	21571895	.	A	G	11841.13	PASS	PASS AC=54;AF=0.818;AN=66;DP=4
41946	chrY	21575220	.	C	T	524.40	PASS	AC=12;AF=1.00;AN=12;DP=44;FS=0.00
41947	chrY	21575282	.	G	C	291.18	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
41948	chrY	21575367	.	G	C	84.05	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41949	chrY	21575553	.	C	T	164.87	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
41950	chrY	21575561	.	T	C	210.39	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41951	chrY	21575562	.	G	A	210.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41952	chrY	21575565	.	T	C	1096.80	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=

41953	chrY	21575566	.	G	A	433.71	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
41954	chrY	21575567	.	C	T	270.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41955	chrY	21575573	.	T	G	249.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41956	chrY	21575580	.	T	C	688.91	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
41957	chrY	21575581	.	G	C	58.81	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41958	chrY	21575586	.	A	G	186.39	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
41959	chrY	21575589	.	G	A	137.45	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
41960	chrY	21575601	.	G	T	132.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41961	chrY	21575614	.	A	G	122.48	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41962	chrY	21575622	.	G	A	125.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41963	chrY	21575626	.	G	A	124.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
41964	chrY	21581064	.	T	C	6093.14	PASS	AC=58;AF=1.00;AN=58;DP=266;FS=0.0
41965	chrY	21582168	.	G	T	1158.70	PASS	AC=6;AF=0.086;AN=70;DP=599;FS=0.0
41966	chrY	21582351	.	A	G	1307.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41967	chrY	21587924	.	C	T	14150.44	PASS	AC=58;AF=0.829;AN=70;DP=5
41968	chrY	21592027	.	A	T	192.69	PASS	AC=2;AF=0.029;AN=68;DP=505;FS=0.0
41969	chrY	21598044	.	C	T	327.66	PASS	AC=2;AF=0.029;AN=70;DP=445;FS=0.0
41970	chrY	21598839	.	G	A	136.60	PASS	AC=6;AF=0.094;AN=64;DP=270;FS=0.0
41971	chrY	21600034	.	T	C	43.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41972	chrY	21600035	.	T	A	43.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
41973	chrY	21600124	.	A	T	1246.91	PASS	AC=6;AF=0.088;AN=68;DP=406;FS=0.0
41974	chrY	21600151	.	C	T	34.08	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41975	chrY	21600156	.	A	G	34.09	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
41976	chrY	21603164	.	G	T	10038.92	PASS	AC=68;AF=1.00;AN=68;DP=35
41977	chrY	21604901	.	T	C	759.19	PASS	AC=6;AF=0.086;AN=70;DP=363;FS=0.0
41978	chrY	21613023	.	A	T	1542.11	PASS	AC=6;AF=0.091;AN=66;DP=505;FS=0.0
41979	chrY	21613024	.	T	A	1542.11	PASS	AC=6;AF=0.091;AN=66;DP=504;FS=0.0
41980	chrY	21614288	.	C	T	1594.64	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
41981	chrY	21615072	.	A	G	336.47	PASS	AC=2;AF=0.029;AN=70;DP=463;FS=0.0
41982	chrY	21617793	.	A	T	331.92	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
41983	chrY	21618856	.	T	C	9443.76	PASS	AC=58;AF=0.829;AN=70;BaseQRankSum=
41984	chrY	21625227	.	G	T	1113.94	PASS	AC=6;AF=0.088;AN=68;DP=300;FS=0.0
41985	chrY	21625977	.	G	T	39.26	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
41986	chrY	21625985	.	T	A	38.88	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
41987	chrY	21633158	.	C	A	1315.75	PASS	AC=6;AF=0.300;AN=20;DP=164;FS=0.0
41988	chrY	21634039	.	C	T	48.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41989	chrY	21634040	.	A	G	48.30	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
41990	chrY	21635855	.	C	A	316.34	PASS	AC=2;AF=0.029;AN=70;DP=642;FS=0.0
41991	chrY	21641985	.	G	C	10355.61	PASS	AC=42;AF=0.636;AN=66;DP=5
41992	chrY	21648377	.	A	G	2823.13	PASS	AC=34;AF=0.586;AN=58;DP=272;FS=0.0
41993	chrY	21648390	.	T	C	826.99	PASS	AC=6;AF=0.088;AN=68;DP=291;FS=0.0
41994	chrY	21651669	.	C	A	994.75	PASS	AC=6;AF=0.333;AN=18;DP=104;FS=0.0
41995	chrY	21652612	.	G	A	1279.02	PASS	AC=6;AF=0.086;AN=70;DP=462;FS=0.0
41996	chrY	21655748	.	A	G	7821.40	PASS	AC=44;AF=0.647;AN=68;DP=456;FS=0.0
41997	chrY	21661530	.	C	T	86.46	PASS	AC=2;AF=0.037;AN=54;DP=223;FS=0.0
41998	chrY	21661676	.	G	T	4545.05	PASS	AC=24;AF=1.00;AN=24;DP=175;FS=0.0
41999	chrY	21663278	.	G	A	97.55	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
42000	chrY	21663692	.	G	A	946.62	PASS	AC=6;AF=0.086;AN=70;DP=376;FS=0.0
42001	chrY	21664672	.	G	C	992.17	PASS	AC=6;AF=0.094;AN=64;DP=340;FS=0.0
42002	chrY	21666182	.	A	C	860.84	PASS	AC=6;AF=0.086;AN=70;DP=397;FS=0.0
42003	chrY	21670941	.	T	A	1444.69	PASS	AC=6;AF=0.088;AN=68;DP=621;FS=0.0
42004	chrY	21680415	.	T	C	1284.18	PASS	AC=6;AF=0.333;AN=18;DP=176;FS=0.0
42005	chrY	21681617	.	G	T	1381.87	PASS	AC=6;AF=0.107;AN=56;DP=214;FS=0.0
42006	chrY	21681650	.	A	T	1062.72	PASS	AC=6;AF=0.088;AN=68;DP=266;FS=0.0
42007	chrY	21682151	.	C	T	435.91	PASS	AC=2;AF=0.029;AN=70;DP=413;FS=0.0
42008	chrY	21685040	.	A	G	271.32	PASS	AC=2;AF=0.029;AN=70;DP=532;FS=0.0
42009	chrY	21687987	.	G	C,*	1288.47	PASS	AC=8,5;AF=0.286,0.179;AN=28;BaseQ
42010	chrY	21687989	.	G	C,*	1144.88	PASS	AC=7,4;AF=0.159,0.091;AN=44;BaseQ
42011	chrY	21687991	.	G	C,*	1149.71	PASS	AC=6,4;AF=0.120,0.080;AN=50;DP=20
42012	chrY	21691320	.	T	C	866.61	PASS	AC=6;AF=0.094;AN=64;DP=281;FS=0.0
42013	chrY	21697098	.	T	C	35.31	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42014	chrY	21697484	.	T	G	30.36	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
42015	chrY	21697486	.	T	C	30.40	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
42016	chrY	21697497	.	T	C	173.92	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
42017	chrY	21697501	.	T	C	114.40	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
42018	chrY	21697504	.	C	G	111.42	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
42019	chrY	21697526	.	G	A	102.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
42020	chrY	21699194	.	G	A	172.35	PASS	AC=6;AF=0.250;AN=24;DP=132;FS=0.0
42021	chrY	21700771	.	A	T	1144.70	PASS	AC=6;AF=0.120;AN=50;DP=186;FS=0.0
42022	chrY	21707315	.	C	G	965.93	PASS	AC=6;AF=0.086;AN=70;DP=283;FS=0.0
42023	chrY	21707919	.	C	A	366.35	PASS	AC=2;AF=0.029;AN=70;DP=296;FS=0.0
42024	chrY	21709133	.	A	T	590.75	PASS	AC=6;AF=0.086;AN=70;DP=285;FS=0.0
42025	chrY	21709394	.	C	T	2815.71	PASS	AC=32;AF=0.516;AN=62;DP=241;FS=0.0
42026	chrY	21709855	.	C	T	30.83	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42027	chrY	21717208	.	C	T	1036.06	PASS	AC=6;AF=0.091;AN=66;DP=481;FS=0.0
42028	chrY	21724700	.	G	A	2035.89	PASS	AC=6;AF=0.086;AN=70;DP=533;FS=0.0

42029	chrY	21730257	.	G	C	5901.34	PASS	AC=50;AF=0.806;AN=62;DP=300;FS=0.0
42030	chrY	21740914	.	G	A	606.54	PASS	AC=2;AF=0.029;AN=70;DP=596;FS=0.0
42031	chrY	21744094	.	C	A	4530.86	PASS	AC=18;AF=1.00;AN=18;DP=172;FS=0.0
42032	chrY	21749881	.	A	G	842.69	PASS	AC=6;AF=0.088;AN=68;DP=361;FS=0.0
42033	chrY	21757201	.	A	G	40.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42034	chrY	21757205	.	C	T	39.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42035	chrY	21759138	.	C	T	975.20	PASS	AC=6;AF=0.086;AN=70;DP=431;FS=0.0
42036	chrY	21760973	.	A	T	1181.33	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.0
42037	chrY	21761275	.	G	T	6202.18	PASS	AC=50;AF=1.00;AN=50;DP=215;FS=0.0
42038	chrY	21761737	.	A	T	564.78	PASS	AC=6;AF=0.107;AN=56;DP=195;FS=0.0
42039	chrY	21766997	.	A	G	46.66	PASS	AC=2;AF=0.029;AN=70;DP=241;FS=0.0
42040	chrY	21768404	.	G	A	8387.88	PASS	AC=58;AF=0.829;AN=70;DP=374;FS=0.0
42041	chrY	21768723	.	C	A	424.82	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42042	chrY	21769943	.	G	A	264.66	PASS	AC=4;AF=0.065;AN=62;DP=247;FS=0.0
42043	chrY	21775066	.	C	T	339.30	PASS	AC=2;AF=0.063;AN=32;DP=158;FS=0.0
42044	chrY	21778941	.	T	A	42.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42045	chrY	21778942	.	G	A	42.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42046	chrY	21778943	.	T	A	42.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42047	chrY	21782593	.	A	G	679.79	PASS	AC=6;AF=0.086;AN=70;DP=408;FS=0.0
42048	chrY	21783904	.	C	T	1521.43	PASS	AC=6;AF=0.088;AN=68;DP=414;FS=0.0
42049	chrY	21784286	.	A	G	9834.01	PASS	AC=66;AF=1.00;AN=66;DP=350;FS=0.0
42050	chrY	21787705	.	G	T	1466.77	PASS	AC=6;AF=0.300;AN=20;DP=167;FS=0.0
42051	chrY	21787923	.	G	T	1123.18	PASS	AC=6;AF=0.333;AN=18;DP=160;FS=0.0
42052	chrY	21788031	.	G	T	1165.19	PASS	AC=6;AF=0.333;AN=18;DP=154;FS=0.0
42053	chrY	21792125	.	G	A	7207.56	PASS	AC=52;AF=0.743;AN=70;DP=378;FS=0.0
42054	chrY	21797488	.	C	T	252.29	PASS	AC=2;AF=0.029;AN=70;DP=255;FS=0.0
42055	chrY	21797754	.	T	C	1514.81	PASS	AC=12;AF=0.171;AN=70;DP=214;FS=0.0
42056	chrY	21797986	.	T	A	4394.85	PASS	AC=45;AF=0.703;AN=64;BaseQRankSum=
42057	chrY	21798371	.	G	C	3644.34	PASS	AC=40;AF=0.625;AN=64;DP=258;FS=0.0
42058	chrY	21801722	.	A	G	5836.25	PASS	AC=40;AF=1.00;AN=40;DP=213;FS=0.0
42059	chrY	21803813	.	C	A	9781.95	PASS	AC=52;AF=0.813;AN=64;DP=463;FS=0.0
42060	chrY	21804435	.	T	C	3995.86	PASS	AC=18;AF=1.00;AN=18;DP=159;FS=0.0
42061	chrY	21806392	.	A	G	2148.07	PASS	AC=12;AF=0.214;AN=56;DP=196;FS=0.0
42062	chrY	21807381	.	A	G	1182.47	PASS	AC=6;AF=0.094;AN=64;DP=254;FS=0.0
42063	chrY	21809035	.	G	A	12177.10	PASS	AC=52;AF=0.743;AN=70;DP=5
42064	chrY	21810124	.	C	T	5308.46	PASS	AC=46;AF=0.719;AN=64;DP=314;FS=0.0
42065	chrY	21810698	.	C	T	13452.81	PASS	AC=45;AF=0.643;AN=70;BaseQ
42066	chrY	21811108	.	T	G	13001.98	PASS	AC=70;AF=1.00;AN=70;DP=43
42067	chrY	21811276	.	T	C	6446.75	PASS	AC=54;AF=0.818;AN=66;DP=346;FS=0.0
42068	chrY	21815957	.	T	G	807.73	PASS	AC=6;AF=0.088;AN=68;DP=334;FS=0.0
42069	chrY	21816356	.	T	C	41.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42070	chrY	21824766	.	G	A	4529.57	PASS	AC=30;AF=0.500;AN=60;DP=355;FS=0.0
42071	chrY	21825454	.	G	A	113.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42072	chrY	21827824	.	G	A	294.74	PASS	AC=2;AF=0.030;AN=66;DP=287;FS=0.0
42073	chrY	21829329	.	G	A	148.30	PASS	AC=2;AF=0.111;AN=18;DP=168;FS=0.0
42074	chrY	21829394	.	A	G	4544.86	PASS	AC=18;AF=1.00;AN=18;DP=177;FS=0.0
42075	chrY	21830079	.	C	T	35.01	PASS	AC=2;AF=0.111;AN=18;DP=130;FS=0.0
42076	chrY	21831622	.	C	A	314.43	PASS	AC=2;AF=0.029;AN=70;DP=378;FS=0.0
42077	chrY	21832300	.	G	A	4465.08	PASS	AC=46;AF=0.719;AN=64;DP=304;FS=0.0
42078	chrY	21835949	.	C	T	896.71	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.0
42079	chrY	21840230	.	G	A	281.30	my_snps_filter	AC=5;AF=0.278;AN=18;BaseQ
42080	chrY	21840252	.	A	G	459.19	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42081	chrY	21840279	.	C	T	507.40	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42082	chrY	21840315	.	T	C	727.75	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42083	chrY	21840338	.	T	C	273.75	my_snps_filter	AC=4;AF=0.222;AN=18;BaseQ
42084	chrY	21840400	.	G	C	312.64	my_snps_filter	AC=3;AF=0.167;AN=18;BaseQ
42085	chrY	21840409	.	A	C	267.23	my_snps_filter	AC=2;AF=0.111;AN=18;BaseQ
42086	chrY	21840423	.	A	G	246.59	my_snps_filter	AC=4;AF=0.222;AN=18;BaseQ
42087	chrY	21840454	.	C	G	789.30	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42088	chrY	21840468	.	C	T	863.39	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42089	chrY	21840480	.	A	G	1272.93	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42090	chrY	21840481	.	C	T	1276.29	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42091	chrY	21840517	.	A	T	625.46	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42092	chrY	21840545	.	C	T	668.08	my_snps_filter	AC=4;AF=0.222;AN=18;BaseQ
42093	chrY	21840554	.	A	C	662.11	my_snps_filter	AC=4;AF=0.222;AN=18;BaseQ
42094	chrY	21840576	.	G	T	990.71	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42095	chrY	21840590	.	G	A	655.85	my_snps_filter	AC=6;AF=0.333;AN=18;BaseQ
42096	chrY	21843090	.	G	C	13585.94	PASS	AC=68;AF=1.00;AN=68;DP=46
42097	chrY	21845436	.	G	A	1246.94	PASS	AC=6;AF=0.100;AN=60;DP=215;FS=0.0
42098	chrY	21848764	.	C	A	3574.97	PASS	AC=20;AF=1.00;AN=20;DP=142;FS=0.0
42099	chrY	21861676	.	T	C	305.16	PASS	AC=8;AF=0.286;AN=28;DP=182;FS=0.0
42100	chrY	21867787	.	A	G	10953.93	PASS	AC=68;AF=1.00;AN=68;DP=36
42101	chrY	21869132	.	T	C	2578.52	PASS	AC=22;AF=0.355;AN=62;DP=334;FS=0.0
42102	chrY	21875321	.	A	G	241.56	PASS	AC=6;AF=0.107;AN=56;DP=250;FS=0.0
42103	chrY	21875538	.	T	C	20928.44	PASS	AC=52;AF=0.743;AN=70;DP=8
42104	chrY	21888500	.	A	G	935.91	PASS	AC=6;AF=0.091;AN=66;DP=238;FS=0.0

42105	chrY	21888793	.	T	C	1259.19	PASS	AC=20;AF=0.417;AN=48;DP=211;FS=0.0
42106	chrY	21889767	.	A	G	3835.34	PASS	AC=34;AF=1.00;AN=34;BaseQRankSum=
42107	chrY	21890919	.	G	A	1212.04	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
42108	chrY	21900849	.	A	G	85.83	PASS	AC=2;AF=0.029;AN=70;DP=577;FS=0.0
42109	chrY	21905300	.	G	A	59.78	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
42110	chrY	21905301	.	G	A	58.41	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42111	chrY	21905917	.	T	G	417.08	PASS	AC=6;AF=0.088;AN=68;DP=412;FS=0.0
42112	chrY	21916889	.	A	G	1064.84	PASS	AC=6;AF=0.088;AN=68;DP=443;FS=0.0
42113	chrY	21917313	.	T	C	12080.97	PASS	AC=56;AF=0.824;AN=68;DP=4
42114	chrY	21917832	.	C	T	10604.01	PASS	AC=70;AF=1.00;AN=70;DP=35
42115	chrY	21921588	.	A	C	215.05	PASS	AC=2;AF=0.029;AN=70;DP=619;FS=0.0
42116	chrY	21926547	.	T	G	53.28	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42117	chrY	21932275	.	G	A	157.39	PASS	AC=2;AF=0.029;AN=70;DP=292;FS=0.0
42118	chrY	21937573	.	G	A	2269.95	PASS	AC=24;AF=0.667;AN=36;DP=182;FS=0.0
42119	chrY	21938444	.	C	T	1207.77	PASS	AC=6;AF=0.086;AN=70;DP=654;FS=0.0
42120	chrY	21944885	.	C	G	1034.20	PASS	AC=6;AF=0.333;AN=18;DP=154;FS=0.0
42121	chrY	21946408	.	G	T	281.80	PASS	AC=6;AF=0.120;AN=50;DP=112;FS=0.0
42122	chrY	21947480	.	T	C	619.42	PASS	AC=6;AF=0.111;AN=54;DP=173;FS=0.0
42123	chrY	21950315	.	G	T	2914.35	PASS	AC=40;AF=0.690;AN=58;DP=193;FS=0.0
42124	chrY	21952388	.	T	C	6816.03	PASS	AC=64;AF=1.00;AN=64;DP=282;FS=0.0
42125	chrY	21956085	.	A	T	462.02	PASS	AC=2;AF=0.111;AN=18;DP=171;FS=0.0
42126	chrY	21957292	.	C	G	232.26	PASS	AC=2;AF=0.029;AN=70;DP=358;FS=0.0
42127	chrY	21964243	.	A	G	24236.35	PASS	AC=40;AF=0.571;AN=70;Base
42128	chrY	21965846	.	G	C	882.29	PASS	AC=6;AF=0.333;AN=18;DP=136;FS=0.0
42129	chrY	21968675	.	C	T	695.87	PASS	AC=2;AF=0.042;AN=48;DP=205;FS=0.0
42130	chrY	21972927	.	G	A	1494.04	PASS	AC=6;AF=0.086;AN=70;DP=504;FS=0.0
42131	chrY	21974190	.	T	C	10754.72	PASS	AC=52;AF=0.743;AN=70;DP=5
42132	chrY	21978177	.	G	C	539.45	PASS	AC=6;AF=0.088;AN=68;DP=389;FS=0.0
42133	chrY	21983276	.	T	C	1235.90	PASS	AC=6;AF=0.097;AN=62;DP=248;FS=0.0
42134	chrY	21983827	.	T	C	11675.91	PASS	AC=70;AF=1.00;AN=70;DP=39
42135	chrY	21984733	.	G	A	99.65	PASS	AC=2;AF=0.029;AN=70;DP=248;FS=0.0
42136	chrY	21987460	.	C	T	31.72	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42137	chrY	21990058	.	C	T	4234.79	PASS	AC=26;AF=0.371;AN=70;DP=435;FS=0.0
42138	chrY	21990257	.	T	C	13959.97	PASS	AC=70;AF=1.00;AN=70;DP=47
42139	chrY	21992542	.	G	A	950.74	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.0
42140	chrY	21993844	.	A	G	6990.13	PASS	AC=58;AF=1.00;AN=58;DP=267;FS=0.0
42141	chrY	21994261	.	G	A	15572.46	PASS	AC=46;AF=0.719;AN=64;DP=6
42142	chrY	21995972	.	A	T	2360.25	PASS	AC=26;AF=1.00;AN=26;DP=104;FS=0.0
42143	chrY	21999747	.	C	T	1058.79	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
42144	chrY	22000392	.	C	A	17797.35	PASS	AC=40;AF=0.571;AN=70;DP=8
42145	chrY	22000975	.	C	T	1481.18	PASS	AC=6;AF=0.333;AN=18;DP=171;FS=0.0
42146	chrY	22003770	.	A	G	13545.97	PASS	AC=70;AF=1.00;AN=70;DP=45
42147	chrY	22011214	.	T	C	417.65	PASS	AC=2;AF=0.029;AN=70;DP=507;FS=0.0
42148	chrY	22011448	.	C	T	904.55	PASS	AC=6;AF=0.250;AN=24;DP=114;FS=0.0
42149	chrY	22012657	.	C	G	1509.75	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
42150	chrY	22014732	.	C	G	750.18	PASS	AC=6;AF=0.333;AN=18;DP=174;FS=0.0
42151	chrY	22014916	.	C	A	288.02	PASS	AC=2;AF=0.111;AN=18;DP=160;FS=0.0
42152	chrY	22019711	.	T	C	362.60	PASS	AC=6;AF=0.091;AN=66;DP=201;FS=0.0
42153	chrY	22020463	.	C	G	503.18	PASS	AC=2;AF=0.029;AN=68;DP=313;FS=0.0
42154	chrY	22020795	.	T	G	1147.28	PASS	AC=6;AF=0.086;AN=70;DP=447;FS=0.0
42155	chrY	22022234	.	G	C	13560.01	PASS	AC=52;AF=0.743;AN=70;DP=5
42156	chrY	22024547	.	A	G	1916.72	PASS	AC=12;AF=0.171;AN=70;DP=347;FS=0.0
42157	chrY	22031833	.	T	C	545.46	PASS	AC=6;AF=0.097;AN=62;DP=282;FS=0.0
42158	chrY	22040221	.	C	G	5095.36	PASS	AC=52;AF=1.00;AN=52;DP=200;FS=0.0
42159	chrY	22051934	.	G	A	1170.84	PASS	AC=6;AF=0.086;AN=70;DP=776;FS=0.0
42160	chrY	22054621	.	G	A	380.55	PASS	AC=2;AF=0.029;AN=70;DP=428;FS=0.0
42161	chrY	22056822	.	A	G	40.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42162	chrY	22059661	.	C	T	1140.48	PASS	AC=6;AF=0.086;AN=70;DP=248;FS=0.0
42163	chrY	22062471	.	G	A	1278.46	PASS	AC=26;AF=0.520;AN=50;DP=220;FS=0.0
42164	chrY	22063097	.	T	G	774.91	PASS	AC=6;AF=0.088;AN=68;DP=225;FS=0.0
42165	chrY	22063882	.	C	A	43.65	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42166	chrY	22063887	.	A	G	43.67	PASS	AC=1;AF=0.015;AN=66;DP=214;FS=0.0
42167	chrY	22063890	.	T	A	47.24	PASS	AC=2;AF=0.031;AN=64;DP=208;FS=0.0
42168	chrY	22066461	.	A	G	4321.43	PASS	AC=44;AF=0.710;AN=62;DP=294;FS=0.0
42169	chrY	22072340	.	G	C	23788.87	PASS	AC=70;AF=1.00;AN=70;BaseQ
42170	chrY	22075070	.	C	T	456.09	PASS	AC=2;AF=0.029;AN=68;DP=296;FS=0.0
42171	chrY	22078021	.	T	C	742.35	PASS	AC=2;AF=0.029;AN=70;DP=559;FS=0.0
42172	chrY	22082306	.	A	G	133.15	PASS	AC=2;AF=0.029;AN=70;DP=508;FS=0.0
42173	chrY	22084580	.	G	A	901.75	PASS	AC=6;AF=0.094;AN=64;DP=249;FS=0.0
42174	chrY	22085382	.	G	T	145.44	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
42175	chrY	22088759	.	C	T	52.05	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
42176	chrY	22088760	.	A	G	51.31	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
42177	chrY	22089030	.	A	G	163.27	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
42178	chrY	22091767	.	C	G	1118.49	PASS	AC=6;AF=0.088;AN=68;DP=384;FS=0.0
42179	chrY	22094491	.	T	C	6355.09	PASS	AC=64;AF=1.00;AN=64;DP=301;FS=0.0
42180	chrY	22098605	.	T	C	935.55	PASS	AC=6;AF=0.088;AN=68;DP=353;FS=0.0

42181	chrY	22099636	.	A	T	941.63	PASS	AC=20;AF=1.00;AN=20;DP=37;FS=0.00
42182	chrY	22100010	.	T	A	753.52	PASS	AC=6;AF=0.158;AN=38;DP=125;FS=0.0
42183	chrY	22108101	.	A	G	6438.98	PASS	AC=56;AF=0.824;AN=68;BaseQRankSum
42184	chrY	22108605	.	G	A	35.45	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42185	chrY	22108630	.	G	A	38.09	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42186	chrY	22117033	.	T	G	1025.43	PASS	AC=6;AF=0.086;AN=70;DP=434;FS=0.0
42187	chrY	22131437	.	G	A	99.51	PASS	AC=2;AF=0.034;AN=58;DP=220;FS=0.0
42188	chrY	22133306	.	T	C	1260.27	PASS	AC=18;AF=0.409;AN=44;DP=218;FS=0.
42189	chrY	22133425	.	G	A	1531	PASS	AC=6;AF=0.086;AN=70;DP=344;FS=0.0
42190	chrY	22140302	.	T	C	1026.19	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
42191	chrY	22141397	.	G	A	286.47	PASS	AC=2;AF=0.029;AN=70;DP=385;FS=0.0
42192	chrY	22141632	.	A	T	1256.49	PASS	AC=6;AF=0.086;AN=70;DP=468;FS=0.0
42193	chrY	22143282	.	A	T	335.44	PASS	AC=2;AF=0.029;AN=70;DP=337;FS=0.0
42194	chrY	22148722	.	G	A	1434.13	PASS	AC=6;AF=0.086;AN=70;DP=394;FS=0.0
42195	chrY	22149947	.	T	A	976.47	PASS	AC=6;AF=0.333;AN=18;DP=155;FS=0.0
42196	chrY	22151345	.	A	C	4015.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
42197	chrY	22153858	.	G	A	1251.75	PASS	AC=6;AF=0.300;AN=20;DP=184;FS=0.0
42198	chrY	22154366	.	C	A	129.32	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
42199	chrY	22154396	.	G	A	121.26	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
42200	chrY	22154412	.	C	T	50.65	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
42201	chrY	22154439	.	T	C	30.78	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
42202	chrY	22154569	.	C	A	46.11	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
42203	chrY	22154579	.	G	A	52.71	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
42204	chrY	22154582	.	T	C	146.05	PASS	AC=4;AF=0.182;AN=22;BaseQRankSum=
42205	chrY	22156498	.	A	C	7299.59	PASS	AC=54;AF=0.818;AN=66;DP=331;FS=0.
42206	chrY	22157311	.	A	C	18403.93	PASS	AC=68;AF=1.00;AN=68;DP=60
42207	chrY	22158687	.	C	A	779.78	PASS	AC=6;AF=0.107;AN=56;DP=164;FS=0.0
42208	chrY	22159889	.	G	A	3264.02	PASS	AC=42;AF=0.636;AN=66;DP=236;FS=0.
42209	chrY	22163757	.	C	A	138.69	PASS	AC=4;AF=0.061;AN=66;DP=269;FS=0.0
42210	chrY	22164441	.	A	G	967.22	PASS	AC=16;AF=1.00;AN=16;DP=50;FS=0.00
42211	chrY	22164905	.	A	G	300.77	PASS	AC=2;AF=0.033;AN=60;DP=199;FS=0.0
42212	chrY	22166455	.	G	T	347.32	PASS	AC=6;AF=0.091;AN=66;DP=181;FS=0.0
42213	chrY	22168468	.	A	G	15365.92	PASS	AC=50;AF=0.735;AN=68;BaseQ
42214	chrY	22168522	.	G	A	1088.31	PASS	AC=6;AF=0.086;AN=70;DP=597;FS=0.0
42215	chrY	22173931	.	C	T	591.17	PASS	AC=6;AF=0.107;AN=56;DP=170;FS=0.0
42216	chrY	22175388	.	C	T	1443.60	PASS	AC=6;AF=0.086;AN=70;DP=384;FS=0.0
42217	chrY	22176853	.	A	G	8186.73	PASS	AC=52;AF=0.813;AN=64;DP=378;FS=0.
42218	chrY	22177486	.	G	T	1624.35	PASS	AC=6;AF=0.097;AN=62;DP=260;FS=0.0
42219	chrY	22178215	.	C	A	745.13	PASS	AC=6;AF=0.088;AN=68;DP=449;FS=0.0
42220	chrY	22180534	.	G	T	190.69	PASS	AC=2;AF=0.030;AN=66;DP=295;FS=0.0
42221	chrY	22186158	.	T	C	348.37	PASS	AC=2;AF=0.029;AN=70;DP=460;FS=0.0
42222	chrY	22186571	.	C	T	1159.16	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.0
42223	chrY	22190371	.	G	A	6590.21	PASS	AC=60;AF=1.00;AN=60;DP=245;FS=0.0
42224	chrY	22190538	.	C	T	226.24	PASS	AC=6;AF=0.094;AN=64;DP=265;FS=0.0
42225	chrY	22192647	.	C	T	46.36	PASS	AC=2;AF=0.029;AN=68;DP=365;FS=0.0
42226	chrY	22199622	.	T	C	5811.33	PASS	AC=38;AF=0.559;AN=68;DP=416;FS=0.
42227	chrY	22203556	.	C	G	1243.14	PASS	AC=6;AF=0.086;AN=70;DP=564;FS=0.0
42228	chrY	22204546	.	G	T	257.15	PASS	AC=2;AF=0.029;AN=68;DP=417;FS=0.0
42229	chrY	22205208	.	T	A	240.99	PASS	AC=2;AF=0.029;AN=68;DP=369;FS=0.0
42230	chrY	22205347	.	C	T	176.19	PASS	AC=2;AF=0.029;AN=68;DP=330;FS=0.0
42231	chrY	22208309	.	A	G	964.74	PASS	AC=6;AF=0.100;AN=60;DP=213;FS=0.0
42232	chrY	22208408	.	G	A	770.71	PASS	AC=22;AF=0.550;AN=40;DP=164;FS=0.
42233	chrY	22208589	.	T	A	33.87	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42234	chrY	22208599	.	A	T	33.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42235	chrY	22210953	.	A	T	1279.87	PASS	AC=6;AF=0.088;AN=68;DP=369;FS=0.0
42236	chrY	22212735	.	A	G	39.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42237	chrY	22212741	.	G	T	42.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42238	chrY	22212844	.	G	A	75.01	PASS	AC=2;AF=0.029;AN=68;DP=328;FS=0.0
42239	chrY	22212900	.	G	A	202.39	PASS	AC=4;AF=0.067;AN=60;DP=190;FS=0.0
42240	chrY	22214221	.	T	G	2785.91	PASS	AC=12;AF=0.171;AN=70;DP=441;FS=0.
42241	chrY	22215952	.	T	A	1534.09	PASS	AC=6;AF=0.250;AN=24;DP=166;FS=0.0
42242	chrY	22216842	.	C	T	12838.13	PASS	AC=40;AF=0.571;AN=70;BaseQ
42243	chrY	22216949	.	C	T	76.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42244	chrY	22216956	.	T	C	76.30	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42245	chrY	22217469	.	A	C	2109.98	PASS	AC=16;AF=0.400;AN=40;DP=304;FS=0.
42246	chrY	22217553	.	C	T	53.56	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
42247	chrY	22217717	.	A	T	101.41	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42248	chrY	22217725	.	A	C	76.17	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42249	chrY	22218124	.	G	A	904.15	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42250	chrY	22218133	.	G	A	1168.90	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
42251	chrY	22218151	.	T	C	2354.78	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
42252	chrY	22218161	.	G	A	844.78	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
42253	chrY	22218163	.	T	G	2465.94	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
42254	chrY	22218169	.	C	A	5138.93	PASS	AC=23;AF=0.426;AN=54;BaseQRankSum=
42255	chrY	22218173	.	C	G	4688.90	PASS	AC=22;AF=0.440;AN=50;BaseQRankSum=
42256	chrY	22218178	.	T	C	197.99	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=

42257	chrY	22218181	.	C	A	190.19	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42258	chrY	22218199	.	T	C	456.80	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42259	chrY	22218203	.	T	G	1948.93	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
42260	chrY	22218206	.	C	T	231.95	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42261	chrY	22218208	.	C	A	700.54	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
42262	chrY	22218230	.	C	A	257.20	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42263	chrY	22218251	.	A	C	137.55	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42264	chrY	22218252	.	T	C	212.15	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
42265	chrY	22218294	.	C	A	47.13	my_snp_filter	AC=2;AF=0.031;AN=64;DP=35
42266	chrY	22218297	.	A	T	47.09	my_snp_filter	AC=2;AF=0.031;AN=64;DP=35
42267	chrY	22218298	.	C	G	109.85	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42268	chrY	22218813	.	A	T	1407.58	PASS	AC=6;AF=0.100;AN=60;DP=328;FS=0.0
42269	chrY	22219299	.	C	T	1026.85	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
42270	chrY	22219518	.	G	C	2271.64	my_snp_filter	AC=19;AF=0.306;AN=62;BaseQ
42271	chrY	22219992	.	G	C	218.21	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42272	chrY	22219994	.	T	C	217.67	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42273	chrY	22220025	.	T	G	46.75	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42274	chrY	22220030	.	A	C	40.90	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42275	chrY	22220033	.	T	C	115.53	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42276	chrY	22220246	.	C	A	5911.10	PASS	AC=46;AF=0.719;AN=64;DP=337;FS=0.
42277	chrY	22220275	.	T	G	876.62	PASS	AC=6;AF=0.100;AN=60;DP=323;FS=0.0
42278	chrY	22220514	.	T	G	38.41	PASS	AC=2;AF=0.029;AN=68;DP=349;FS=1.5
42279	chrY	22220520	.	T	G	115.74	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42280	chrY	22220601	.	G	C	6349.08	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
42281	chrY	22220616	.	T	C	6938.93	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
42282	chrY	22220745	.	T	A	60.84	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
42283	chrY	22220748	.	A	G	60.82	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
42284	chrY	22220787	.	T	A	950.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42285	chrY	22220955	.	C	G	27092.80	PASS	AC=38;AF=0.543;AN=70;BaseQ
42286	chrY	22220963	.	G	A	25436.83	PASS	AC=38;AF=0.543;AN=70;BaseQ
42287	chrY	22220971	.	C	T	3719.92	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
42288	chrY	22220993	.	T	C	312.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42289	chrY	22221146	.	T	A	2233.40	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
42290	chrY	22221319	.	T	C	5104.99	PASS	AC=33;AF=0.516;AN=64;BaseQRankSum=
42291	chrY	22221327	.	T	C	46.32	PASS	AC=2;AF=0.029;AN=68;DP=516;FS=0.0
42292	chrY	22221452	.	T	A	55.25	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
42293	chrY	22221623	.	C	A	1476.85	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
42294	chrY	22221769	.	G	C	2136.37	my_snp_filter	AC=20;AF=0.313;AN=64;BaseQ
42295	chrY	22221931	.	T	C	3393.93	PASS	AC=23;AF=0.359;AN=64;BaseQRankSum=
42296	chrY	22221991	.	C	G	2494.41	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum=
42297	chrY	22222030	.	A	T	6651.02	PASS	AC=41;AF=0.854;AN=48;BaseQRankSum=
42298	chrY	22222044	.	T	C	1013.43	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
42299	chrY	22222059	.	T	C	830.71	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
42300	chrY	22222070	.	G	A	8545.17	PASS	AC=52;AF=1.00;AN=52;DP=260;FS=0.0
42301	chrY	22222079	.	C	T	312.01	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42302	chrY	22222109	.	A	G	1707.83	PASS	AC=33;AF=0.611;AN=54;BaseQRankSum=
42303	chrY	22222111	.	A	G	595.68	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
42304	chrY	22222134	.	A	G	834.98	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
42305	chrY	22222193	.	G	T	468.30	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
42306	chrY	22222281	.	A	T	80.91	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
42307	chrY	22222293	.	A	C	88.32	PASS	AC=2;AF=0.036;AN=56;DP=327;FS=0.0
42308	chrY	22222318	.	T	A	976.99	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
42309	chrY	22222322	.	T	G	65.36	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
42310	chrY	22222488	.	T	A	42.94	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
42311	chrY	22222490	.	A	G	43.17	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42312	chrY	22222524	.	C	T	804	PASS	AC=6;AF=0.115;AN=52;BaseQRankSum=
42313	chrY	22222543	.	C	G	904.41	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
42314	chrY	22222579	.	C	T	100.29	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42315	chrY	22222586	.	A	C	100.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42316	chrY	22222598	.	T	G	635.43	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42317	chrY	22222605	.	G	C	4104.01	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum=
42318	chrY	22222614	.	T	G	3911.31	PASS	AC=17;AF=0.304;AN=56;BaseQRankSum=
42319	chrY	22222671	.	T	C	314.30	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
42320	chrY	22222704	.	A	T	69.09	PASS	AC=4;AF=1.00;AN=4;DP=2;FS=0.000;M
42321	chrY	22224801	.	C	A	44.48	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
42322	chrY	22224802	.	T	C	43.62	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
42323	chrY	22224862	.	C	A	1002.52	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
42324	chrY	22224873	.	C	G	896.04	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42325	chrY	22225047	.	A	T	709.62	PASS	AC=6;AF=0.086;AN=70;DP=364;FS=0.0
42326	chrY	22225604	.	A	C	601.37	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
42327	chrY	22225925	.	A	C	128.54	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42328	chrY	22225950	.	C	A	41.49	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
42329	chrY	22226020	.	C	T	55.87	PASS	AC=2;AF=0.042;AN=48;DP=148;FS=0.0
42330	chrY	22226843	.	C	T	36.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=50;F
42331	chrY	22227019	.	T	C	61.29	PASS	AC=2;AF=0.250;AN=8;DP=14;FS=0.000
42332	chrY	22227051	.	G	A	63.61	PASS	AC=2;AF=0.200;AN=10;DP=15;FS=0.00

42333	chrY	22227061	.	G	C	140.55	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
42334	chrY	22227071	.	C	A	174.41	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
42335	chrY	22227089	.	T	G	170.18	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
42336	chrY	22227147	.	A	C	92.49	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
42337	chrY	22227202	.	A	G	84.39	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
42338	chrY	22227315	.	T	C	2156.88	PASS	AC=27;AF=0.466;AN=58;BaseQRankSum
42339	chrY	22227986	.	G	T	64.76	PASS	AC=2;AF=0.200;AN=10;DP=16;FS=0.00
42340	chrY	22227998	.	G	A	45.46	PASS	AC=2;AF=0.125;AN=16;DP=17;FS=0.00
42341	chrY	22228171	.	A	C	3103.86	PASS	AC=12;AF=0.667;AN=18;BaseQRankSum
42342	chrY	22228196	.	C	T	3310.97	PASS	AC=10;AF=0.625;AN=16;BaseQRankSum
42343	chrY	22228200	.	A	C	3255.97	PASS	AC=10;AF=0.625;AN=16;BaseQRankSum
42344	chrY	22228269	.	C	T	72.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42345	chrY	22228295	.	T	C	482.36	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
42346	chrY	22228316	.	T	A	454.60	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
42347	chrY	22228338	.	T	G	231.65	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
42348	chrY	22228346	.	C	T	1456.45	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
42349	chrY	22228391	.	A	G	36.22	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
42350	chrY	22228395	.	A	G	416.72	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
42351	chrY	22228408	.	A	G	294.97	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
42352	chrY	22228415	.	C	G	131.74	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
42353	chrY	22228550	.	A	C	68.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
42354	chrY	22228615	.	G	T	130.79	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
42355	chrY	22228628	.	T	A	5267.57	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
42356	chrY	22228678	.	G	T	4954.99	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum
42357	chrY	22228683	.	G	A	7836.58	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
42358	chrY	22228690	.	T	A	5402.61	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
42359	chrY	22228691	.	T	G	5501.61	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
42360	chrY	22228712	.	T	C	1401.40	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
42361	chrY	22228720	.	T	G	1048.07	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
42362	chrY	22228732	.	C	T	4288.68	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
42363	chrY	22228758	.	G	A	3799.32	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum
42364	chrY	22228818	.	C	A	126.11	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42365	chrY	22228902	.	G	A	281.50	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
42366	chrY	22228943	.	A	G	433.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42367	chrY	22229037	.	A	G	10636.86	PASS	AC=24;AF=0.364;AN=66;BaseQ
42368	chrY	22229062	.	A	C	11542.21	PASS	AC=25;AF=0.357;AN=70;BaseQ
42369	chrY	22229065	.	G	T	11647.52	PASS	AC=25;AF=0.357;AN=70;BaseQ
42370	chrY	22229066	.	T	A	11714.52	PASS	AC=25;AF=0.357;AN=70;BaseQ
42371	chrY	22229069	.	C	A	614.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42372	chrY	22229096	.	T	G	8693.95	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
42373	chrY	22229105	.	T	A	339.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42374	chrY	22229136	.	C	T	4296.16	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum
42375	chrY	22229165	.	G	T	2237.26	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
42376	chrY	22229168	.	C	A	1781.99	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
42377	chrY	22229169	.	G	C	1707.70	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
42378	chrY	22229188	.	A	C	370.64	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
42379	chrY	22229191	.	T	C	348.29	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
42380	chrY	22229193	.	T	A	362.73	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
42381	chrY	22229194	.	A	G	276.87	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
42382	chrY	22229269	.	T	G	7532.16	PASS	AC=48;AF=1.00;AN=48;DP=220;FS=0.00
42383	chrY	22229290	.	A	T	6001.21	PASS	AC=42;AF=1.00;AN=42;DP=160;FS=0.00
42384	chrY	22229291	.	C	G	5929.26	PASS	AC=42;AF=1.00;AN=42;DP=157;FS=0.00
42385	chrY	22229324	.	T	G	2992.50	PASS	AC=34;AF=1.00;AN=34;DP=80;FS=0.00
42386	chrY	22229325	.	C	G	2857.56	PASS	AC=34;AF=1.00;AN=34;DP=77;FS=0.00
42387	chrY	22229326	.	T	C	2677.68	PASS	AC=34;AF=1.00;AN=34;DP=76;FS=0.00
42388	chrY	22229383	.	A	C	252.90	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42389	chrY	22229387	.	C	G	248.80	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42390	chrY	22229393	.	A	T	80.66	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42391	chrY	22229426	.	A	T	6190.80	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
42392	chrY	22229548	.	T	C	5119.15	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
42393	chrY	22229562	.	A	G	16586.01	PASS	AC=70;AF=1.00;AN=70;BaseQ
42394	chrY	22229572	.	A	G	237.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42395	chrY	22229606	.	T	G	2018.76	my_snp_filter	AC=18;AF=0.300;AN=60;BaseQ
42396	chrY	22229617	.	T	G	7325.53	PASS	AC=55;AF=0.982;AN=56;BaseQRankSum
42397	chrY	22229665	.	A	T	49.80	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
42398	chrY	22229666	.	C	G	49.80	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
42399	chrY	22229672	.	A	C	37.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42400	chrY	22229673	.	A	C	71.73	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
42401	chrY	22229681	.	G	A	60.98	PASS	AC=2;AF=0.200;AN=10;DP=397;FS=0.00
42402	chrY	22229704	.	A	T	79.42	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42403	chrY	22229722	.	T	A	15149.31	PASS	AC=57;AF=0.983;AN=58;BaseQ
42404	chrY	22229865	.	A	G	98182.86	PASS	AC=64;AF=1.00;AN=64;DP=21
42405	chrY	22229868	.	A	C	98645.86	PASS	AC=64;AF=1.00;AN=64;DP=21
42406	chrY	22229901	.	G	C	91145.11	PASS	AC=64;AF=1.00;AN=64;BaseQ
42407	chrY	22229905	.	A	G	91636.11	PASS	AC=64;AF=1.00;AN=64;BaseQ
42408	chrY	22229906	.	T	G	91811.87	PASS	AC=64;AF=1.00;AN=64;DP=19

42409	chrY	22229913	.	C	G	89089.87	PASS	AC=64;AF=1.00;AN=64;DP=19
42410	chrY	22230252	.	C	A	1087.58	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
42411	chrY	22230254	.	C	T	1091.90	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
42412	chrY	22230364	.	A	G	36.96	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
42413	chrY	22230486	.	T	C	953.40	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42414	chrY	22230688	.	C	G	49.03	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
42415	chrY	22230712	.	A	G	165.08	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
42416	chrY	22231091	.	G	A	262.57	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
42417	chrY	22231207	.	C	A	1517.18	PASS	AC=6;AF=0.111;AN=54;DP=287;FS=0.0
42418	chrY	22231491	.	C	G	336.64	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
42419	chrY	22232967	.	T	C	811.34	PASS	AC=6;AF=0.111;AN=54;DP=194;FS=0.0
42420	chrY	22233024	.	G	A	80.61	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42421	chrY	22233034	.	G	C	77.18	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42422	chrY	22233050	.	G	A	78.09	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
42423	chrY	22233052	.	C	A	323.64	PASS	AC=2;AF=0.038;AN=52;DP=315;FS=0.0
42424	chrY	22233053	.	C	A	112.40	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
42425	chrY	22233060	.	C	T	111.49	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
42426	chrY	22233088	.	G	T	583.38	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42427	chrY	22233165	.	C	A	37.19	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42428	chrY	22233278	.	A	G	180.18	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42429	chrY	22233360	.	G	T	15201.25	PASS	AC=57;AF=0.950;AN=60;BaseQ
42430	chrY	22233509	.	G	T	40.08	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42431	chrY	22233514	.	A	G	112.27	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42432	chrY	22233539	.	G	A,*	1601.76	PASS	AC=3,6;AF=0.054,0.107;AN=56;BaseQ
42433	chrY	22233551	.	C	T,*	1527.83	PASS	AC=1,6;AF=0.017,0.103;AN=58;BaseQ
42434	chrY	22233565	.	T	A,*	1519.97	PASS	AC=1,6;AF=0.017,0.103;AN=58;BaseQ
42435	chrY	22233578	.	A	G,*	1941.38	PASS	AC=3,6;AF=0.054,0.107;AN=56;BaseQ
42436	chrY	22233597	.	G	A,*	1577.25	PASS	AC=3,6;AF=0.056,0.111;AN=54;BaseQ
42437	chrY	22233732	.	C	G	12339.01	PASS	AC=56;AF=1.00;AN=56;DP=42
42438	chrY	22234065	.	T	A	167.06	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42439	chrY	22234681	.	T	C	67.84	PASS	AC=2;AF=1.00;AN=2;DP=4;FS=0.000;M
42440	chrY	22234686	.	C	T	60.97	PASS	AC=2;AF=0.333;AN=6;DP=6;FS=0.000;
42441	chrY	22234690	.	T	G	60.97	PASS	AC=2;AF=0.333;AN=6;DP=6;FS=0.000;
42442	chrY	22234696	.	T	A	60.97	PASS	AC=2;AF=0.333;AN=6;DP=6;FS=0.000;
42443	chrY	22234704	.	A	C	96.67	PASS	AC=4;AF=0.667;AN=6;DP=8;FS=0.000;
42444	chrY	22234979	.	C	A	62.62	PASS	AC=2;AF=0.500;AN=4;DP=5;FS=0.000;
42445	chrY	22234989	.	G	A	63.49	PASS	AC=2;AF=0.500;AN=4;DP=5;FS=0.000;
42446	chrY	22235149	.	T	C	47.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=23;FS=0.000
42447	chrY	22235226	.	C	T	6594.36	PASS	AC=54;AF=0.964;AN=56;BaseQRankSum=
42448	chrY	22235416	.	C	A	54.18	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
42449	chrY	22235425	.	T	C	66.40	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
42450	chrY	22235517	.	T	A	3641.84	my_snp_filter	AC=32;AF=0.640;AN=50;BaseQ
42451	chrY	22235556	.	C	G	55.71	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
42452	chrY	22235568	.	C	T	359.97	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
42453	chrY	22235592	.	A	C	60.30	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
42454	chrY	22235624	.	G	C	93.57	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
42455	chrY	22235654	.	T	C	147.60	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42456	chrY	22235675	.	C	A	146.07	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
42457	chrY	22235683	.	G	C	44.06	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
42458	chrY	22235686	.	T	A	45.47	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
42459	chrY	22235688	.	T	A	209.73	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
42460	chrY	22235694	.	A	C	225.05	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
42461	chrY	22235695	.	T	A	89.51	my_snp_filter	AC=1;AF=0.026;AN=38;BaseQ
42462	chrY	22235745	.	C	T	249.25	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
42463	chrY	22235746	.	T	G	248.90	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
42464	chrY	22235797	.	G	A	74.49	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42465	chrY	22235813	.	T	C	35.20	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42466	chrY	22235836	.	C	G	435.33	PASS	AC=4;AF=0.071;AN=56;DP=255;FS=0.0
42467	chrY	22236003	.	A	T	2403.58	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
42468	chrY	22236022	.	G	A	1587.38	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
42469	chrY	22236033	.	A	G	881.93	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42470	chrY	22236034	.	T	G	862.51	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42471	chrY	22236036	.	C	T	400.59	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42472	chrY	22236043	.	G	A	439.73	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42473	chrY	22236045	.	T	A	552.91	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
42474	chrY	22236047	.	A	G	1011.92	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
42475	chrY	22236054	.	C	T	302.33	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42476	chrY	22236068	.	C	A	85.57	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42477	chrY	22236075	.	G	T	507.20	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
42478	chrY	22236142	.	C	A	1421.24	PASS	AC=17;AF=0.315;AN=54;BaseQRankSum=
42479	chrY	22236154	.	C	T	419.87	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42480	chrY	22236178	.	A	T	289.52	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
42481	chrY	22236188	.	T	A	135.18	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
42482	chrY	22236192	.	A	T	89.54	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
42483	chrY	22236199	.	A	T	224.51	my_snp_filter	AC=4;AF=0.667;AN=6;BaseQR
42484	chrY	22236200	.	G	A	224.51	my_snp_filter	AC=4;AF=0.667;AN=6;BaseQR

42485	chrY	22236205	.	G	T	221.97	my_snp_filter	AC=4;AF=0.500;AN=8;BaseQR
42486	chrY	22236209	.	C	A	224.30	my_snp_filter	AC=4;AF=0.500;AN=8;BaseQR
42487	chrY	22236213	.	C	A	142.93	my_snp_filter	AC=3;AF=0.375;AN=8;BaseQR
42488	chrY	22236219	.	C	G	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=9;FS
42489	chrY	22236231	.	T	C	65.10	my_snp_filter	AC=2;AF=0.250;AN=8;DP=11;
42490	chrY	22236827	.	A	G	615.21	my_snp_filter	AC=9;AF=0.900;AN=10;BaseQ
42491	chrY	22236848	.	T	G	1257.36	PASS	AC=11;AF=0.917;AN=12;BaseQRankSum
42492	chrY	22236953	.	C	G	638.35	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum
42493	chrY	22236967	.	G	A	5478.68	my_snp_filter	AC=41;AF=0.732;AN=56;Base
42494	chrY	22236968	.	C	T	125.76	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42495	chrY	22237007	.	A	T	454.55	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
42496	chrY	22237110	.	T	A	247.10	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
42497	chrY	22237175	.	C	G	186.65	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
42498	chrY	22237186	.	A	C	217.85	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
42499	chrY	22237216	.	C	T	145.11	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42500	chrY	22237221	.	A	T	144.80	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42501	chrY	22237258	.	G	A	1306.39	my_snp_filter	AC=12;AF=0.214;AN=56;Base
42502	chrY	22237270	.	A	C	1483.71	PASS	AC=12;AF=0.231;AN=52;BaseQRankSum
42503	chrY	22237289	.	A	C	1486.28	PASS	AC=13;AF=0.464;AN=28;BaseQRankSum
42504	chrY	22237314	.	C	A	197.14	PASS	AC=4;AF=0.667;AN=6;DP=75;FS=0.000
42505	chrY	22237315	.	C	T,A	1359.83	PASS	AC=13,2;AF=0.813,0.125;AN=16;DP=6
42506	chrY	22237319	.	A	T	51.61	PASS	AC=2;AF=0.048;AN=42;DP=69;FS=0.00
42507	chrY	22237339	.	T	A	907.45	my_snp_filter	AC=11;AF=0.500;AN=22;Base
42508	chrY	22237372	.	A	G	266.06	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
42509	chrY	22237516	.	G	A	30.41	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
42510	chrY	22237582	.	A	T	104.69	PASS	AC=4;AF=1.00;AN=4;DP=69;FS=0.000;
42511	chrY	22237631	.	C	A	5188.40	PASS	AC=38;AF=1.00;AN=38;DP=136;FS=0.0
42512	chrY	22237634	.	G	C	5233.40	PASS	AC=38;AF=1.00;AN=38;DP=136;FS=0.0
42513	chrY	22237652	.	T	C	4358.84	PASS	AC=30;AF=0.652;AN=46;DP=138;FS=0.
42514	chrY	22237670	.	C	G	45.72	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
42515	chrY	22237676	.	T	C	44.72	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
42516	chrY	22237688	.	C	A	109.09	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
42517	chrY	22237695	.	G	A	912.80	PASS	AC=7;AF=0.194;AN=36;BaseQRankSum=
42518	chrY	22237724	.	A	C	32.04	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
42519	chrY	22237729	.	T	C	72.47	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
42520	chrY	22237827	.	A	G	831	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
42521	chrY	22237873	.	A	T	228.93	PASS	AC=4;AF=0.074;AN=54;DP=326;FS=0.0
42522	chrY	22237952	.	A	G	915.77	PASS	AC=6;AF=0.107;AN=56;DP=365;FS=0.0
42523	chrY	22238276	.	G	C	56.19	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42524	chrY	22238304	.	A	C	131.67	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42525	chrY	22238310	.	C	A	176.55	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42526	chrY	22238317	.	T	G	354.54	PASS	AC=6;AF=0.231;AN=26;BaseQRankSum=
42527	chrY	22238323	.	T	A	572.83	PASS	AC=13;AF=0.241;AN=54;BaseQRankSum=
42528	chrY	22238326	.	A	C	599.47	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
42529	chrY	22238417	.	C	G	2679.40	PASS	AC=37;AF=0.617;AN=60;BaseQRankSum=
42530	chrY	22238494	.	G	T	62.41	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42531	chrY	22238576	.	C	G	80.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42532	chrY	22238678	.	A	C	173.08	PASS	AC=2;AF=0.030;AN=66;DP=250;FS=0.0
42533	chrY	22238832	.	C	T	4625.13	PASS	AC=42;AF=0.700;AN=60;DP=315;FS=8.
42534	chrY	22239128	.	G	C	17061.90	PASS	AC=68;AF=1.00;AN=68;DP=54
42535	chrY	22239294	.	C	T	22351.45	PASS	AC=57;AF=0.814;AN=70;Base
42536	chrY	22239335	.	T	A	16413.38	PASS	AC=51;AF=0.729;AN=70;Base
42537	chrY	22239362	.	G	A	828.74	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
42538	chrY	22239414	.	C	A	184.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42539	chrY	22239420	.	C	T	113.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42540	chrY	22239436	.	T	A	70.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42541	chrY	22239437	.	T	A	317.63	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42542	chrY	22239484	.	T	A	860.39	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
42543	chrY	22239493	.	C	A	950.41	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
42544	chrY	22239504	.	C	T	975.43	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
42545	chrY	22239506	.	C	A	1612.80	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
42546	chrY	22239515	.	G	A	537.10	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
42547	chrY	22239547	.	G	A	548.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42548	chrY	22239550	.	C	T	40.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42549	chrY	22239618	.	A	C	121.61	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
42550	chrY	22239819	.	G	T	664.93	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42551	chrY	22239872	.	C	T	469.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42552	chrY	22239972	.	G	A	2376.12	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
42553	chrY	22240008	.	T	C	24749.46	PASS	AC=39;AF=0.557;AN=70;Base
42554	chrY	22240014	.	A	G	144.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42555	chrY	22240084	.	G	T	416.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42556	chrY	22240122	.	C	G	1501.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42557	chrY	22240256	.	G	T	216.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42558	chrY	22240289	.	G	T	5040.11	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
42559	chrY	22240292	.	C	A	5047.03	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
42560	chrY	22240301	.	A	G	19710.36	PASS	AC=36;AF=0.514;AN=70;Base

42561	chrY	22240317	.	G	C	4716.94	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
42562	chrY	22240354	.	T	C	20550.99	PASS	AC=34;AF=0.486;AN=70;Base
42563	chrY	22240398	.	C	G	6667.44	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
42564	chrY	22240405	.	C	A	6599.36	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
42565	chrY	22240420	.	A	T	6329.69	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
42566	chrY	22240481	.	C	T	31199.05	PASS	AC=38;AF=0.543;AN=70;Base
42567	chrY	22240505	.	A	T	18803.72	PASS	AC=35;AF=0.500;AN=70;Base
42568	chrY	22240534	.	C	A	10823.74	PASS	AC=35;AF=0.500;AN=70;Base
42569	chrY	22240627	.	T	A	6701.41	my_snp_filter	AC=43;AF=0.827;AN=52;Base
42570	chrY	22240640	.	A	G	48.11	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
42571	chrY	22240673	.	A	C	2149.76	my_snp_filter	AC=18;AF=0.333;AN=54;BaseQ
42572	chrY	22240696	.	T	C,G	431.07	PASS	AC=2,3;AF=0.034,0.052;AN=58;BaseQ
42573	chrY	22240713	.	A	G	140.88	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
42574	chrY	22240714	.	C	G	45.57	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
42575	chrY	22240760	.	C	G	731.30	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
42576	chrY	22240838	.	A	C	123.05	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
42577	chrY	22240888	.	A	T	1921.29	my_snp_filter	AC=11;AF=0.306;AN=36;Base
42578	chrY	22240927	.	C	G	698.94	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
42579	chrY	22241049	.	T	C	553.22	my_snp_filter	AC=7;AF=0.438;AN=16;BaseQ
42580	chrY	22241075	.	C	G	992.27	my_snp_filter	AC=14;AF=1.00;AN=14;BaseQ
42581	chrY	22241092	.	T	G	54.72	my_snp_filter	AC=2;AF=0.100;AN=20;DP=60
42582	chrY	22241156	.	C	T	1764.02	PASS	AC=10;AF=0.455;AN=22;BaseQRankSum
42583	chrY	22241170	.	A	C	2272.18	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum
42584	chrY	22241179	.	G	A	2675.11	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum
42585	chrY	22241181	.	T	C	2755.75	PASS	AC=13;AF=0.722;AN=18;BaseQRankSum
42586	chrY	22241183	.	A	T	2975.82	PASS	AC=13;AF=0.813;AN=16;BaseQRankSum
42587	chrY	22241205	.	C	A	3325.54	PASS	AC=13;AF=0.929;AN=14;BaseQRankSum
42588	chrY	22241313	.	C	A	31.97	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
42589	chrY	22241361	.	A	G	2754.31	PASS	AC=30;AF=1.00;AN=30;DP=103;FS=0.0
42590	chrY	22241631	.	C	T	655.20	my_snp_filter	AC=8;AF=0.250;AN=32;BaseQ
42591	chrY	22241673	.	T	A	258.84	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
42592	chrY	22241789	.	T	A	7937.41	PASS	AC=37;AF=0.712;AN=52;BaseQRankSum
42593	chrY	22241803	.	G	A,*	7690.48	PASS	AC=29,2;AF=0.630,0.043;AN=46;Base
42594	chrY	22241818	.	A	C	2288.39	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
42595	chrY	22241897	.	A	G	82.12	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42596	chrY	22241902	.	T	A	82.90	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42597	chrY	22241903	.	A	C	83.17	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
42598	chrY	22241918	.	A	T	5657.85	PASS	AC=36;AF=0.692;AN=52;BaseQRankSum
42599	chrY	22241929	.	T	G	5223.01	my_snp_filter	AC=36;AF=0.692;AN=52;Base
42600	chrY	22241930	.	A	C	5251.02	my_snp_filter	AC=36;AF=0.692;AN=52;Base
42601	chrY	22241979	.	G	T	875.32	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
42602	chrY	22241982	.	A	T	864.16	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
42603	chrY	22241998	.	C	T	714.88	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
42604	chrY	22242004	.	T	C	730	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
42605	chrY	22242017	.	A	G	469.24	PASS	AC=4;AF=0.133;AN=30;BaseQRankSum=
42606	chrY	22242143	.	A	G	53.21	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
42607	chrY	22242147	.	G	A	61.50	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
42608	chrY	22242171	.	T	G	35.34	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
42609	chrY	22242214	.	T	C	32.42	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
42610	chrY	22242215	.	A	C	32.35	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
42611	chrY	22242293	.	T	A	181.27	PASS	AC=5;AF=0.147;AN=34;BaseQRankSum=
42612	chrY	22242299	.	A	C	73.91	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
42613	chrY	22242372	.	C	G	50.19	PASS	AC=2;AF=0.063;AN=32;DP=324;FS=0.0
42614	chrY	22242390	.	C	T	1529.94	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
42615	chrY	22242424	.	A	C	202.52	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
42616	chrY	22242456	.	A	G	61.11	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
42617	chrY	22242532	.	A	G	2212.56	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum
42618	chrY	22242572	.	G	A	863.70	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
42619	chrY	22242681	.	C	G,*	301.97	PASS	AC=3,1;AF=0.088,0.029;AN=34;BaseQ
42620	chrY	22242700	.	T	C,*	284.81	PASS	AC=3,1;AF=0.088,0.029;AN=34;BaseQ
42621	chrY	22242773	.	G	A	554.44	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
42622	chrY	22242777	.	A	T	867.28	PASS	AC=9;AF=0.281;AN=32;BaseQRankSum=
42623	chrY	22242849	.	A	G	52.38	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
42624	chrY	22242951	.	G	A	310.80	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
42625	chrY	22243146	.	A	G	44.83	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
42626	chrY	22243175	.	T	C	2123.43	PASS	AC=18;AF=0.474;AN=38;BaseQRankSum
42627	chrY	22243222	.	G	T	89.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42628	chrY	22243239	.	A	T	81.02	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42629	chrY	22243242	.	C	T	80.83	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42630	chrY	22243259	.	A	G	82.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42631	chrY	22243296	.	T	G	86.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42632	chrY	22243298	.	T	A	86.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42633	chrY	22243322	.	C	A	101.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42634	chrY	22243374	.	G	A	26440.25	PASS	AC=55;AF=0.786;AN=70;Base
42635	chrY	22243389	.	C	T	27492.96	PASS	AC=55;AF=0.786;AN=70;Base
42636	chrY	22243468	.	C	A	1626.93	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

42637	chrY	22243566	.	C	T	15590.96	PASS	AC=46;AF=0.719;AN=64;BaseQ
42638	chrY	22243595	.	G	A	23501.38	PASS	AC=44;AF=0.710;AN=62;BaseQ
42639	chrY	22243597	.	A	G	23368.38	PASS	AC=44;AF=0.710;AN=62;BaseQ
42640	chrY	22243678	.	C	A	932.62	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42641	chrY	22243714	.	C	A	3828.85	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
42642	chrY	22243730	.	G	A	17709.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
42643	chrY	22243769	.	T	C	27898.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42644	chrY	22243798	.	G	A	31834.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42645	chrY	22243815	.	C	T	29922.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42646	chrY	22243922	.	A	C	9060.76	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=
42647	chrY	22243989	.	T	C	196.10	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42648	chrY	22244026	.	A	G	2140.17	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
42649	chrY	22244089	.	A	C	1552.87	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
42650	chrY	22244122	.	G	C	1583.43	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42651	chrY	22244151	.	A	T	980.53	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
42652	chrY	22244163	.	T	C	522.12	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42653	chrY	22244165	.	A	G	586.01	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
42654	chrY	22244169	.	C	A	446.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42655	chrY	22244200	.	A	C	444.36	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
42656	chrY	22244211	.	T	A	540.11	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
42657	chrY	22244238	.	T	A	171.96	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42658	chrY	22244242	.	T	C	235.51	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
42659	chrY	22244290	.	G	C	4477.92	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum=
42660	chrY	22244317	.	A	C	4631.91	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
42661	chrY	22244334	.	C	T	1541.02	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
42662	chrY	22244401	.	A	T	5781.16	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum=
42663	chrY	22244410	.	G	C	5973.79	PASS	AC=18;AF=0.346;AN=52;BaseQRankSum=
42664	chrY	22244458	.	A	G	3496.50	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
42665	chrY	22244514	.	A	G,*	1397.14	PASS	AC=8,1;AF=0.143,0.018;AN=56;BaseQ
42666	chrY	22244546	.	T	A,*	312.77	PASS	AC=3,1;AF=0.060,0.020;AN=50;BaseQ
42667	chrY	22244556	.	C	C,*	359.71	PASS	AC=4,1;AF=0.074,0.019;AN=54;BaseQ
42668	chrY	22244563	.	T	C,*	1084.40	PASS	AC=6,1;AF=0.111,0.019;AN=54;BaseQ
42669	chrY	22244572	.	C	T	1672.46	PASS	AC=24;AF=0.545;AN=44;BaseQRankSum=
42670	chrY	22244648	.	A	T	34.94	my_snps_filter	AC=1;AF=0.016;AN=62;BaseQ
42671	chrY	22244658	.	A	C	37.66	my_snps_filter	AC=1;AF=0.016;AN=62;BaseQ
42672	chrY	22244696	.	A	T	1525.12	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
42673	chrY	22244750	.	G	T	1756.01	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
42674	chrY	22244785	.	C	G	1718.44	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
42675	chrY	22244786	.	T	C	1715.66	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum=
42676	chrY	22244804	.	A	T	1130.01	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
42677	chrY	22244824	.	C	G	844.78	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
42678	chrY	22244848	.	T	G	818.54	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
42679	chrY	22244849	.	A	T	963.09	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
42680	chrY	22244877	.	A	G	9398	PASS	AC=55;AF=0.833;AN=66;BaseQRankSum=
42681	chrY	22244895	.	G	A	282.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42682	chrY	22244905	.	G	A	1374.38	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
42683	chrY	22244926	.	G	A,*	5482.32	PASS	AC=12,36;AF=0.194,0.581;AN=62;Bas
42684	chrY	22244935	.	T	A	943.28	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
42685	chrY	22244982	.	G	C	183.69	PASS	AC=4;AF=1.00;AN=4;DP=5;FS=0.000;M
42686	chrY	22245749	.	C	T	37.92	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
42687	chrY	22245793	.	C	A	58.25	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42688	chrY	22245825	.	A	C	45.74	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42689	chrY	22245828	.	T	G	43.88	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42690	chrY	22245832	.	T	G	46.55	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42691	chrY	22245923	.	A	G	1437.38	PASS	AC=6;AF=0.097;AN=62;DP=304;FS=0.0
42692	chrY	22245979	.	A	T	5702.40	PASS	AC=35;AF=0.583;AN=60;BaseQRankSum=
42693	chrY	22246045	.	C	G	14184.95	PASS	AC=68;AF=1.00;AN=68;DP=45
42694	chrY	22246199	.	G	A	15863.91	PASS	AC=64;AF=1.00;AN=64;DP=46
42695	chrY	22246220	.	A	G	7839.33	PASS	AC=34;AF=0.531;AN=64;DP=426;FS=0.
42696	chrY	22246669	.	A	G	11352.92	PASS	AC=65;AF=0.985;AN=66;BaseQ
42697	chrY	22246685	.	C	G	2369.23	PASS	AC=6;AF=0.086;AN=70;DP=344;FS=2.8
42698	chrY	22246772	.	G	C	88.98	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42699	chrY	22246818	.	G	T	522.49	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
42700	chrY	22246827	.	T	C	1722.78	PASS	AC=25;AF=0.500;AN=50;BaseQRankSum=
42701	chrY	22246834	.	C	G	653.63	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
42702	chrY	22246861	.	C	A	32.74	my_snps_filter	AC=2;AF=0.040;AN=50;BaseQ
42703	chrY	22246933	.	C	T	107.68	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
42704	chrY	22246951	.	C	G	135.82	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
42705	chrY	22246982	.	T	G	128.82	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
42706	chrY	22247002	.	G	A	259.43	PASS	AC=6;AF=0.600;AN=10;BaseQRankSum=
42707	chrY	22247064	.	T	G	93.80	my_snps_filter	AC=1;AF=0.063;AN=16;BaseQ
42708	chrY	22247247	.	T	A	745.02	my_snps_filter	AC=6;AF=1.00;AN=6;DP=27;F
42709	chrY	22247270	.	G	C	328.88	my_snps_filter	AC=3;AF=0.500;AN=6;BaseQR
42710	chrY	22249832	.	C	G	195.82	my_snps_filter	AC=5;AF=0.179;AN=28;BaseQ
42711	chrY	22249882	.	T	A	147.63	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42712	chrY	22249938	.	A	G	1171.78	my_snps_filter	AC=17;AF=0.283;AN=60;Base

42713	chrY	22250000	.	T	C	2795.12	my_snp_filter	AC=23;AF=0.426;AN=54;BaseQ
42714	chrY	22250008	.	G	A	911.11	my_snp_filter	AC=12;AF=0.222;AN=54;BaseQ
42715	chrY	22250059	.	T	A	133.75	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
42716	chrY	22250166	.	T	A	33.27	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
42717	chrY	22250842	.	C	T	146.63	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
42718	chrY	22251147	.	C	T	42.01	my_snp_filter	AC=3;AF=0.250;AN=12;BaseQ
42719	chrY	22251713	.	C	G	341.87	my_snp_filter	AC=6;AF=0.188;AN=32;DP=53
42720	chrY	22251944	.	G	A	56.81	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
42721	chrY	22251945	.	C	A	55.30	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
42722	chrY	22251946	.	C	T	55.65	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
42723	chrY	22252084	.	G	C	398.56	my_snp_filter	AC=6;AF=0.111;AN=54;DP=17
42724	chrY	22252965	.	G	T	74.98	PASS	AC=4;AF=1.00;AN=4;DP=5;FS=0.000;M
42725	chrY	22253090	.	G	T	3591.15	PASS	AC=38;AF=1.00;AN=38;DP=148;FS=0.0
42726	chrY	22253170	.	G	T	63.42	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
42727	chrY	22253173	.	A	C	54.89	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
42728	chrY	22253181	.	C	A	57.03	PASS	AC=2;AF=0.050;AN=40;DP=247;FS=0.0
42729	chrY	22253215	.	G	T	283.54	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
42730	chrY	22253248	.	T	C	31.88	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
42731	chrY	22253250	.	A	T	129.38	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42732	chrY	22253491	.	C	T	2754.97	PASS	AC=24;AF=0.429;AN=56;BaseQRankSum=
42733	chrY	22253516	.	C	T	427.26	PASS	AC=6;AF=0.097;AN=62;DP=340;FS=0.0
42734	chrY	22253527	.	C	T	37.21	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42735	chrY	22253683	.	A	T	5934.16	PASS	AC=36;AF=0.600;AN=60;DP=452;FS=0.
42736	chrY	22253976	.	T	C	19828.57	PASS	AC=65;AF=0.929;AN=70;BaseQ
42737	chrY	22254172	.	T	C	493.37	PASS	AC=6;AF=0.094;AN=64;DP=319;FS=0.0
42738	chrY	22254173	.	G	T	3097.94	PASS	AC=40;AF=0.690;AN=58;DP=316;FS=0.
42739	chrY	22254313	.	A	T	383.16	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
42740	chrY	22254490	.	A	T	294.60	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42741	chrY	22254494	.	C	A	109.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42742	chrY	22254503	.	C	G	110.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42743	chrY	22254515	.	A	G	110.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42744	chrY	22254518	.	A	T	110.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42745	chrY	22254547	.	T	G	254.19	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42746	chrY	22254606	.	A	T	1190.12	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
42747	chrY	22254614	.	G	C	396.71	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
42748	chrY	22254623	.	C	G	449.92	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
42749	chrY	22254639	.	G	C	503.59	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
42750	chrY	22254661	.	C	T	208.66	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42751	chrY	22254669	.	T	A	186.95	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
42752	chrY	22254750	.	A	C	600.43	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42753	chrY	22254823	.	G	A	4239.83	PASS	AC=33;AF=0.550;AN=60;BaseQRankSum=
42754	chrY	22254982	.	C	A	165.09	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42755	chrY	22255293	.	C	G	3432.24	PASS	AC=26;AF=0.520;AN=50;DP=415;FS=0.
42756	chrY	22255295	.	A	G	7098.64	PASS	AC=44;AF=0.957;AN=46;BaseQRankSum=
42757	chrY	22255318	.	A	G	135.69	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42758	chrY	22255378	.	A	G	159.85	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
42759	chrY	22255446	.	A	G	76.80	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42760	chrY	22255457	.	G	T	68.90	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42761	chrY	22255459	.	C	A	65.05	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42762	chrY	22255467	.	G	C	55.70	my_snp_filter	AC=2;AF=0.030;AN=66;DP=62
42763	chrY	22255472	.	G	T	65.12	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
42764	chrY	22255480	.	C	T	54.72	my_snp_filter	AC=2;AF=0.030;AN=66;DP=62
42765	chrY	22255483	.	T	C	56.60	my_snp_filter	AC=2;AF=0.030;AN=66;DP=59
42766	chrY	22255529	.	G	T	104.55	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42767	chrY	22255562	.	A	G	126.75	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42768	chrY	22255744	.	T	A	9720.96	PASS	AC=58;AF=1.00;AN=58;BaseQRankSum=
42769	chrY	22255778	.	T	G	336.88	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
42770	chrY	22255832	.	T	A,G	3707.63	my_snp_filter	AC=12,12;AF=0.200,0.200;A
42771	chrY	22255846	.	T	G	2855.35	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
42772	chrY	22255861	.	A	C	1506.66	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
42773	chrY	22255870	.	T	G	213.99	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
42774	chrY	22255871	.	G	A	216.23	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
42775	chrY	22255893	.	T	C	39.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42776	chrY	22255903	.	T	G	58.63	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42777	chrY	22255904	.	A	T	50.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
42778	chrY	22255906	.	T	C	34.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42779	chrY	22255938	.	G	C	4330.32	PASS	AC=22;AF=0.379;AN=58;BaseQRankSum=
42780	chrY	22255992	.	G	T	4726.18	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
42781	chrY	22256015	.	C	G	4804.76	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
42782	chrY	22256022	.	T	A	4645.63	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
42783	chrY	22256036	.	T	C	4074.60	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
42784	chrY	22256043	.	C	G	3858.26	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
42785	chrY	22256061	.	A	T	3226.07	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
42786	chrY	22256102	.	G	T	36.91	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
42787	chrY	22256105	.	T	C	649.16	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
42788	chrY	22256110	.	C	A	47.71	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ

42789	chrY	22256114	.	A	G	2473.62	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
42790	chrY	22256123	.	T	A	2464.36	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
42791	chrY	22256127	.	A	T	2452.09	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
42792	chrY	22256137	.	T	A	2333.71	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
42793	chrY	22256173	.	G	T	106.06	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
42794	chrY	22256241	.	A	T	83.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42795	chrY	22256365	.	G	C	17930.47	PASS	AC=58;AF=0.829;AN=70;DP=6
42796	chrY	22256449	.	T	C	1021.02	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
42797	chrY	22256455	.	G	T	1119.14	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
42798	chrY	22256479	.	T	G	1831.29	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
42799	chrY	22256496	.	T	G	1539.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
42800	chrY	22256515	.	G	C	8142.90	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
42801	chrY	22256574	.	C	G	88.37	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42802	chrY	22256588	.	C	T	101.21	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42803	chrY	22256602	.	G	A	104.03	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42804	chrY	22256617	.	T	G	103.76	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42805	chrY	22256622	.	G	A	106.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42806	chrY	22256624	.	A	G	109.89	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
42807	chrY	22256646	.	G	T	8014.13	PASS	AC=62;AF=1.00;AN=62;DP=233;FS=0.0
42808	chrY	22256663	.	T	C	2512.66	PASS	AC=6;AF=0.091;AN=66;DP=260;FS=0.0
42809	chrY	22256731	.	G	T	826.41	PASS	AC=6;AF=0.097;AN=62;DP=333;FS=0.0
42810	chrY	22257455	.	T	G	591.35	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
42811	chrY	22257484	.	C	G	634.02	my_snp_filter	AC=13;AF=0.210;AN=62;BaseQ
42812	chrY	22257523	.	T	A	751.85	my_snp_filter	AC=12;AF=0.194;AN=62;BaseQ
42813	chrY	22257525	.	G	T	746.78	my_snp_filter	AC=12;AF=0.194;AN=62;BaseQ
42814	chrY	22257537	.	A	G	535.63	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQ
42815	chrY	22257553	.	C	A	34.59	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
42816	chrY	22257561	.	C	A	30.89	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
42817	chrY	22257819	.	T	A	39.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42818	chrY	22257827	.	T	G	269.26	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
42819	chrY	22258059	.	A	T	246.64	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
42820	chrY	22258098	.	C	T	66.40	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
42821	chrY	22258131	.	G	A	68.59	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42822	chrY	22258136	.	C	A	77.85	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42823	chrY	22258144	.	G	A	30.69	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
42824	chrY	22258162	.	T	C	119.20	my_snp_filter	AC=2;AF=0.056;AN=36;DP=77
42825	chrY	22258163	.	A	T	2148.34	PASS	AC=28;AF=1.00;AN=28;DP=73;FS=0.00
42826	chrY	22258168	.	G	C	1810.50	my_snp_filter	AC=26;AF=0.867;AN=30;DP=5
42827	chrY	22258190	.	T	C	370.14	PASS	AC=6;AF=0.600;AN=10;DP=18;FS=0.00
42828	chrY	22258221	.	T	G	54.57	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
42829	chrY	22258247	.	C	T	282.78	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
42830	chrY	22258367	.	G	C	1864.11	PASS	AC=16;AF=1.00;AN=16;DP=47;FS=0.00
42831	chrY	22258368	.	A	T	1864.11	PASS	AC=16;AF=1.00;AN=16;DP=48;FS=0.00
42832	chrY	22258383	.	T	C	1889.10	PASS	AC=16;AF=1.00;AN=16;DP=45;FS=0.00
42833	chrY	22258385	.	G	C	1889.10	PASS	AC=16;AF=1.00;AN=16;DP=46;FS=0.00
42834	chrY	22258468	.	T	A	33.07	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
42835	chrY	22258511	.	G	C	617.04	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
42836	chrY	22258516	.	C	G	646.07	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
42837	chrY	22258654	.	T	C	288.95	my_snp_filter	AC=5;AF=0.086;AN=58;BaseQ
42838	chrY	22258686	.	T	G	218.98	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
42839	chrY	22258726	.	A	T	47	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
42840	chrY	22258730	.	T	C	41.21	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
42841	chrY	22258738	.	G	C	46.74	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
42842	chrY	22258756	.	C	T	48.79	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
42843	chrY	22258776	.	G	T	64.32	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
42844	chrY	22258817	.	A	T	170.36	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
42845	chrY	22258952	.	A	C	621.47	PASS	AC=8;AF=1.00;AN=8;DP=22;FS=0.000;
42846	chrY	22258953	.	T	C	621.47	PASS	AC=8;AF=1.00;AN=8;DP=21;FS=0.000;
42847	chrY	22258963	.	T	C	241.66	my_snp_filter	AC=4;AF=0.667;AN=6;DP=11;
42848	chrY	22258978	.	G	C	112.20	my_snp_filter	AC=2;AF=0.500;AN=4;DP=8;F
42849	chrY	22259014	.	A	C	256.89	my_snp_filter	AC=8;AF=0.800;AN=10;DP=27
42850	chrY	22259090	.	C	T	41.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42851	chrY	22259094	.	T	G	41.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42852	chrY	22259222	.	G	C	8180.95	my_snp_filter	AC=56;AF=1.00;AN=56;DP=28
42853	chrY	22259311	.	C	G	271.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42854	chrY	22259340	.	C	A	70.06	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42855	chrY	22259479	.	T	G	3741.07	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
42856	chrY	22259500	.	T	C	8059.62	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
42857	chrY	22259516	.	T	C	701.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42858	chrY	22259519	.	G	A	397.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42859	chrY	22259520	.	G	T	15485.97	PASS	AC=34;AF=0.486;AN=70;BaseQ
42860	chrY	22259538	.	A	T	161.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42861	chrY	22259577	.	C	T	113.34	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42862	chrY	22259587	.	T	C	5217.80	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
42863	chrY	22259599	.	G	T	1640.70	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
42864	chrY	22259633	.	C	T	3824.43	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=

42865	chrY	22259652	.	T	G	403.72	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42866	chrY	22259657	.	A	G	3009.04	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
42867	chrY	22259728	.	A	C	5327.87	my_snp_filter	AC=29;AF=0.518;AN=56;BaseQRankSum=
42868	chrY	22259729	.	T	C	15965.11	my_snp_filter	AC=53;AF=0.946;AN=66;BaseQRankSum=
42869	chrY	22259785	.	C	A	2328.96	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
42870	chrY	22259798	.	T	G	744.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42871	chrY	22259810	.	G	C	2469.46	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
42872	chrY	22259839	.	C	T,A	7119.39	PASS	AC=27,1;AF=0.409,0.015;AN=66;BaseQRankSum=
42873	chrY	22259923	.	T	A	368.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42874	chrY	22259924	.	G	A	48.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
42875	chrY	22259935	.	G	T	388.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42876	chrY	22259947	.	G	A	283.22	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
42877	chrY	22259951	.	C	G	213.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
42878	chrY	22259957	.	T	G	457.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42879	chrY	22259988	.	G	T	323.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42880	chrY	22260002	.	A	G	14272.56	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
42881	chrY	22260047	.	A	G	5490.99	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
42882	chrY	22260060	.	G	T	15070.05	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
42883	chrY	22260071	.	G	T	718.45	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
42884	chrY	22260072	.	G	C	6019.90	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
42885	chrY	22260089	.	C	T	6780.09	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
42886	chrY	22260119	.	C	G	662.49	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42887	chrY	22260122	.	G	C	73.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
42888	chrY	22260153	.	T	C	335.06	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
42889	chrY	22260185	.	G	T	2749.06	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
42890	chrY	22260187	.	T	G	1177.28	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
42891	chrY	22260197	.	G	A	23300.32	PASS	AC=27;AF=0.422;AN=64;BaseQRankSum=
42892	chrY	22260221	.	C	A	637.84	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
42893	chrY	22260229	.	T	C	1153.19	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
42894	chrY	22260237	.	C	T	5243.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
42895	chrY	22260238	.	T	C	324.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
42896	chrY	22260255	.	C	T	517.85	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
42897	chrY	22260275	.	G	T	36.41	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
42898	chrY	22260315	.	G	T	9825.23	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
42899	chrY	22260348	.	G	T	2110	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
42900	chrY	22260426	.	C	T	2131.60	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
42901	chrY	22260432	.	G	T	4171.45	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
42902	chrY	22260433	.	T	A	2216.87	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
42903	chrY	22260435	.	G	C	2022.61	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
42904	chrY	22260439	.	C	G	82.88	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
42905	chrY	22260519	.	G	T	147.17	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
42906	chrY	22260556	.	A	G	910.70	my_snp_filter	AC=10;AF=0.238;AN=42;BaseQRankSum=
42907	chrY	22260577	.	C	T	162.97	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQRankSum=
42908	chrY	22260581	.	A	G	167.96	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQRankSum=
42909	chrY	22260591	.	T	A	178.46	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQRankSum=
42910	chrY	22260592	.	T	C	707.21	my_snp_filter	AC=7;AF=0.206;AN=34;BaseQRankSum=
42911	chrY	22260598	.	G	T	56.59	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQRankSum=
42912	chrY	22260604	.	T	C	37.95	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQRankSum=
42913	chrY	22260614	.	T	C	41.26	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQRankSum=
42914	chrY	22260663	.	G	A	970.37	my_snp_filter	AC=12;AF=0.857;AN=14;DP=3
42915	chrY	22260679	.	G	C	54.52	PASS	AC=2;AF=0.111;AN=18;DP=41;FS=0.00
42916	chrY	22260692	.	T	C	596.35	my_snp_filter	AC=8;AF=1.00;AN=8;DP=30;FS=0.00
42917	chrY	22260702	.	T	C	150.52	my_snp_filter	AC=2;AF=0.111;AN=18;DP=52
42918	chrY	22260813	.	G	T	60.32	PASS	AC=2;AF=0.048;AN=42;DP=177;FS=0.00
42919	chrY	22260859	.	T	G	44.27	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42920	chrY	22260924	.	G	T	54.41	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42921	chrY	22260962	.	T	C	227.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
42922	chrY	22260966	.	T	C	143.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42923	chrY	22260997	.	C	T	207.21	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
42924	chrY	22261044	.	A	G	44	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQRankSum=
42925	chrY	22261055	.	C	A	312.21	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
42926	chrY	22261064	.	T	G	93.08	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
42927	chrY	22261170	.	G	A	436.34	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
42928	chrY	22261181	.	C	A	498.21	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
42929	chrY	22261418	.	G	A	416.66	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
42930	chrY	22261558	.	G	A	2657.76	PASS	AC=20;AF=0.313;AN=64;BaseQRankSum=
42931	chrY	22261608	.	G	T	54.75	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
42932	chrY	22261622	.	T	C	4222.54	PASS	AC=31;AF=0.484;AN=64;BaseQRankSum=
42933	chrY	22261675	.	G	A	6531.48	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=
42934	chrY	22261688	.	G	A	6592.31	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
42935	chrY	22261766	.	C	T	4791.01	PASS	AC=28;AF=0.452;AN=62;BaseQRankSum=
42936	chrY	22261838	.	C	T	474	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42937	chrY	22261858	.	G	T	8555.61	PASS	AC=24;AF=0.400;AN=60;BaseQRankSum=
42938	chrY	22261902	.	T	G	8716.91	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
42939	chrY	22261913	.	T	C	8297.04	PASS	AC=18;AF=0.321;AN=56;BaseQRankSum=
42940	chrY	22261970	.	T	A	763.04	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=

42941	chrY	22261985	.	C	A	6392.68	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
42942	chrY	22262017	.	T	G	811.23	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42943	chrY	22262030	.	T	C	257.79	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
42944	chrY	22262057	.	C	A	411.51	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
42945	chrY	22262062	.	G	C	46.62	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
42946	chrY	22262145	.	T	C	66.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
42947	chrY	22262162	.	A	C	118.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42948	chrY	22262199	.	G	T	100.49	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
42949	chrY	22262201	.	C	G	7935.47	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
42950	chrY	22262218	.	T	C	132.48	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
42951	chrY	22262437	.	T	A	22719.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
42952	chrY	22262459	.	G	C	20919.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42953	chrY	22262478	.	T	G	16152.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42954	chrY	22262502	.	A	G	12772.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
42955	chrY	22262545	.	T	A	6635.57	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
42956	chrY	22262577	.	A	G	3612.83	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
42957	chrY	22262580	.	T	C	3186.56	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
42958	chrY	22262600	.	A	G	148.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
42959	chrY	22262677	.	G	A	2019.77	my_snp_filter	AC=19;AF=0.328;AN=58;BaseQ
42960	chrY	22262679	.	G	T,A	1594.30	my_snp_filter	AC=11,4;AF=0.177,0.065;AN=
42961	chrY	22262681	.	C	A	1457.99	my_snp_filter	AC=15;AF=0.234;AN=64;BaseQ
42962	chrY	22262690	.	T	G	220.26	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
42963	chrY	22262695	.	T	A	52.95	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
42964	chrY	22262827	.	G	A	694.92	PASS	AC=2;AF=0.030;AN=66;DP=533;FS=0.0
42965	chrY	22262889	.	A	T	23681.94	PASS	AC=66;AF=1.00;AN=66;DP=61
42966	chrY	22262913	.	G	A	19625.58	PASS	AC=54;AF=0.818;AN=66;BaseQ
42967	chrY	22263175	.	T	A	837.02	PASS	AC=6;AF=0.088;AN=68;DP=524;FS=0.0
42968	chrY	22263522	.	C	A	8434.20	PASS	AC=54;AF=1.00;AN=54;DP=218;FS=0.0
42969	chrY	22263524	.	T	C	8479.20	PASS	AC=54;AF=1.00;AN=54;DP=217;FS=0.0
42970	chrY	22263541	.	A	G	7169.52	PASS	AC=51;AF=0.981;AN=52;BaseQRankSum=
42971	chrY	22263573	.	C	G	3333.95	PASS	AC=29;AF=0.906;AN=32;BaseQRankSum=
42972	chrY	22263585	.	C	T	2427.05	PASS	AC=23;AF=0.885;AN=26;BaseQRankSum=
42973	chrY	22263601	.	C	A	1523.56	PASS	AC=17;AF=0.850;AN=20;BaseQRankSum=
42974	chrY	22263604	.	A	G	1299.99	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=
42975	chrY	22263608	.	G	T	1082.60	PASS	AC=13;AF=0.813;AN=16;BaseQRankSum=
42976	chrY	22263611	.	C	G	53.83	my_snp_filter	AC=2;AF=0.063;AN=32;DP=35
42977	chrY	22263648	.	C	G	56.75	my_snp_filter	AC=1;AF=0.125;AN=8;BaseQR
42978	chrY	22263894	.	G	A	209.33	my_snp_filter	AC=6;AF=0.333;AN=18;DP=41
42979	chrY	22263903	.	C	A	48.85	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
42980	chrY	22264236	.	G	A	133.93	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
42981	chrY	22264249	.	A	T	213.17	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
42982	chrY	22264255	.	A	C	98.43	my_snp_filter	AC=2;AF=0.111;AN=18;DP=41
42983	chrY	22264256	.	G	A	57.22	my_snp_filter	AC=2;AF=0.111;AN=18;DP=41
42984	chrY	22264374	.	C	A	223.54	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
42985	chrY	22264622	.	G	A	927.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42986	chrY	22264674	.	G	A	358.11	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
42987	chrY	22264819	.	A	T	41.15	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
42988	chrY	22264831	.	G	T	41.79	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
42989	chrY	22264839	.	A	C	329.61	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
42990	chrY	22264845	.	G	C	40.22	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
42991	chrY	22264864	.	G	T	43.31	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
42992	chrY	22264868	.	C	A	440.06	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
42993	chrY	22266177	.	A	T	206.52	my_snp_filter	AC=6;AF=1.00;AN=6;DP=18;F
42994	chrY	22268472	.	G	T	3442.47	my_snp_filter	AC=34;AF=1.00;AN=34;DP=88
42995	chrY	22268487	.	T	C	3702.58	my_snp_filter	AC=40;AF=1.00;AN=40;DP=10
42996	chrY	22268536	.	C	A	8308.11	my_snp_filter	AC=40;AF=0.800;AN=50;BaseQ
42997	chrY	22268697	.	A	T	125.71	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
42998	chrY	22268836	.	G	T	70.69	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
42999	chrY	22268908	.	G	A	724.37	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
43000	chrY	22268911	.	C	G	3922.41	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
43001	chrY	22268919	.	C	G	4313.76	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
43002	chrY	22268921	.	G	T	172.15	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43003	chrY	22268941	.	A	G	1881.78	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
43004	chrY	22268948	.	T	A	15590.56	PASS	AC=29;AF=0.468;AN=62;BaseQ
43005	chrY	22268952	.	C	G	2892.12	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
43006	chrY	22268977	.	C	T	2899.09	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum=
43007	chrY	22268989	.	T	C	10639.37	PASS	AC=22;AF=0.367;AN=60;BaseQ
43008	chrY	22269023	.	T	G	23423	PASS	AC=31;AF=0.484;AN=64;BaseQRankSum=
43009	chrY	22269060	.	A	C	51.78	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
43010	chrY	22269067	.	G	T	48.74	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
43011	chrY	22269103	.	C	G	14811.82	PASS	AC=32;AF=0.471;AN=68;BaseQ
43012	chrY	22269121	.	G	C	219.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43013	chrY	22269122	.	C	T	14980.64	PASS	AC=30;AF=0.441;AN=68;BaseQ
43014	chrY	22269136	.	T	G	3282.56	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
43015	chrY	22269137	.	G	A	505.92	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
43016	chrY	22269145	.	C	T	2720.51	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=

43017	chrY	22269155	.	T	G	760.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43018	chrY	22269163	.	T	C	1565.37	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum=
43019	chrY	22269176	.	T	A	11665.35	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
43020	chrY	22269220	.	C	T	130.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
43021	chrY	22269229	.	G	C	112.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
43022	chrY	22269237	.	T	A	150.48	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
43023	chrY	22269244	.	T	C	181.62	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
43024	chrY	22269249	.	G	A	132.84	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
43025	chrY	22269251	.	C	G	4817.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
43026	chrY	22269272	.	T	A	162.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43027	chrY	22269285	.	C	A	51.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
43028	chrY	22269293	.	C	A	85.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
43029	chrY	22269304	.	G	T	10617.76	PASS	AC=33;AF=0.589;AN=56;BaseQRankSum=
43030	chrY	22269313	.	A	C	8789.85	my_snp_filter	AC=32;AF=0.593;AN=54;BaseQRankSum=
43031	chrY	22269315	.	C	G	7443.08	my_snp_filter	AC=31;AF=0.554;AN=56;BaseQRankSum=
43032	chrY	22269333	.	A	T	2226.26	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQRankSum=
43033	chrY	22269340	.	C	G	1367.67	my_snp_filter	AC=10;AF=0.172;AN=58;BaseQRankSum=
43034	chrY	22269347	.	T	C	664.21	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQRankSum=
43035	chrY	22269348	.	A	G	657.58	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
43036	chrY	22269352	.	A	G	342.80	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
43037	chrY	22269430	.	T	C	37.94	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43038	chrY	22269433	.	C	T	38.59	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43039	chrY	22269456	.	C	A	1604.40	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum=
43040	chrY	22269465	.	A	G	91.70	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
43041	chrY	22269640	.	C	G	2448.68	my_snp_filter	AC=38;AF=1.00;AN=38;DP=75
43042	chrY	22269664	.	C	G	4029.22	my_snp_filter	AC=50;AF=1.00;AN=50;DP=12
43043	chrY	22269751	.	T	A	17107.91	PASS	AC=66;AF=1.00;AN=66;DP=47
43044	chrY	22269795	.	A	T	22513.91	PASS	AC=66;AF=1.00;AN=66;DP=51
43045	chrY	22269796	.	T	A	22509.91	PASS	AC=66;AF=1.00;AN=66;DP=51
43046	chrY	22269812	.	C	A	11933.29	PASS	AC=42;AF=0.636;AN=66;DP=4
43047	chrY	22269813	.	A	T	11618.29	PASS	AC=42;AF=0.636;AN=66;DP=4
43048	chrY	22269918	.	A	T	31.36	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
43049	chrY	22269943	.	A	T	62.18	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
43050	chrY	22269961	.	T	A	1015.98	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
43051	chrY	22269979	.	T	C	254.43	PASS	AC=2;AF=0.031;AN=64;DP=373;FS=0.0
43052	chrY	22269987	.	C	G	479.93	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
43053	chrY	22269999	.	A	C	129.44	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
43054	chrY	22270000	.	G	T	129.41	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
43055	chrY	22270016	.	A	C	100.01	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43056	chrY	22270017	.	G	A	98.95	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43057	chrY	22270101	.	G	A	101.13	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
43058	chrY	22270392	.	T	A	121.19	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
43059	chrY	22270449	.	T	C	388.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43060	chrY	22270477	.	C	T	80.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
43061	chrY	22270487	.	C	T	1324.72	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
43062	chrY	22270491	.	T	A	40.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43063	chrY	22270515	.	C	T	138.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43064	chrY	22270517	.	C	T	138.32	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43065	chrY	22271105	.	T	A	1086.39	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43066	chrY	22271997	.	T	C	51.68	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQRankSum=
43067	chrY	22272029	.	C	A	31.80	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQRankSum=
43068	chrY	22272226	.	C	T	360.41	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43069	chrY	22272266	.	T	A	55.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
43070	chrY	22272340	.	C	T	728.82	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43071	chrY	22272383	.	G	T	39.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43072	chrY	22272403	.	C	A	341.23	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
43073	chrY	22272940	.	T	G	7227.16	PASS	AC=42;AF=1.00;AN=42;DP=170;FS=0.0
43074	chrY	22273530	.	C	T	547.34	PASS	AC=16;AF=1.00;AN=16;DP=47;FS=0.00
43075	chrY	22273537	.	G	C	484.56	PASS	AC=14;AF=1.00;AN=14;DP=40;FS=0.00
43076	chrY	22273540	.	T	C	69.09	PASS	AC=4;AF=0.667;AN=6;DP=40;FS=0.000
43077	chrY	22274913	.	G	A	154.41	PASS	AC=2;AF=0.031;AN=64;DP=289;FS=0.0
43078	chrY	22274931	.	C	T	88.80	PASS	AC=2;AF=0.030;AN=66;DP=311;FS=0.0
43079	chrY	22275542	.	A	C	30.22	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43080	chrY	22275704	.	T	C	294.28	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQRankSum=
43081	chrY	22275731	.	A	G	526.12	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQRankSum=
43082	chrY	22275733	.	T	C	333.14	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQRankSum=
43083	chrY	22275764	.	T	C	782.88	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQRankSum=
43084	chrY	22275776	.	T	G	44.08	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQRankSum=
43085	chrY	22275781	.	G	T	172.26	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQRankSum=
43086	chrY	22275800	.	G	A	205.33	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQRankSum=
43087	chrY	22275806	.	C	T	932.02	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQRankSum=
43088	chrY	22275818	.	T	G	107.76	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQRankSum=
43089	chrY	22275837	.	C	T	34.26	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQRankSum=
43090	chrY	22275873	.	G	T	136.29	my_snp_filter	AC=5;AF=0.114;AN=44;BaseQRankSum=
43091	chrY	22275903	.	A	C	135.26	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQRankSum=
43092	chrY	22275950	.	G	A	51.09	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQRankSum=

43093	chrY	22275951	.	T	G	844.96	my_snp_filter	AC=4;AF=0.118;AN=34;BaseQ
43094	chrY	22275952	.	G	A	52.57	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
43095	chrY	22275972	.	G	C	49.54	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
43096	chrY	22276710	.	G	C	109.90	my_snp_filter	AC=4;AF=0.400;AN=10;DP=22
43097	chrY	22276801	.	T	A	128.55	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
43098	chrY	22277072	.	T	A	9963.74	my_snp_filter	AC=50;AF=0.806;AN=62;DP=4
43099	chrY	22277299	.	G	T	1369.17	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
43100	chrY	22277506	.	A	T	13533.55	PASS	AC=40;AF=0.571;AN=70;DP=7
43101	chrY	22277829	.	C	A	226.68	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
43102	chrY	22277862	.	G	A	245.52	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
43103	chrY	22277920	.	T	G	137.66	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43104	chrY	22278070	.	C	G	120.90	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
43105	chrY	22278140	.	T	G	771.75	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
43106	chrY	22278160	.	G	T	622.60	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
43107	chrY	22278169	.	G	T	1079.26	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43108	chrY	22278198	.	C	T	52.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43109	chrY	22278204	.	A	T	56.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43110	chrY	22278209	.	G	C	401.32	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43111	chrY	22278231	.	G	T	263.98	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43112	chrY	22278341	.	T	C	926.09	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43113	chrY	22278508	.	A	C	1242.50	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43114	chrY	22278560	.	G	A	478.35	PASS	AC=6;AF=0.086;AN=70;DP=472;FS=0.0
43115	chrY	22278850	.	A	T	84.99	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43116	chrY	22278857	.	A	G	83.95	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43117	chrY	22278858	.	G	C	35.42	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43118	chrY	22278895	.	G	A	37.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43119	chrY	22279126	.	T	A	511.81	PASS	AC=4;AF=0.063;AN=64;DP=410;FS=0.0
43120	chrY	22279286	.	A	C	947.57	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
43121	chrY	22279290	.	T	G	41.28	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43122	chrY	22279292	.	C	T	606.36	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43123	chrY	22279295	.	A	T	1006.35	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
43124	chrY	22279314	.	G	A	1001.68	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
43125	chrY	22279342	.	T	A	88.97	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
43126	chrY	22279349	.	A	C	101.35	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
43127	chrY	22279375	.	A	G	952.28	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
43128	chrY	22279387	.	G	T	774.50	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
43129	chrY	22279399	.	A	T	424.63	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
43130	chrY	22279451	.	T	G	47.24	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
43131	chrY	22279457	.	T	C	46.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
43132	chrY	22279461	.	G	A	81.63	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
43133	chrY	22279481	.	T	C	511.39	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
43134	chrY	22279486	.	G	C	51.62	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
43135	chrY	22279502	.	T	A	691.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
43136	chrY	22279535	.	T	C	616.64	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
43137	chrY	22279540	.	C	A	602.79	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
43138	chrY	22279565	.	A	G	218.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43139	chrY	22279577	.	C	A	212.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43140	chrY	22279581	.	A	C	11988.10	PASS	AC=24;AF=0.343;AN=70;BaseQ
43141	chrY	22279613	.	G	T	1300.55	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43142	chrY	22279625	.	A	G	14927.04	PASS	AC=22;AF=0.324;AN=68;BaseQ
43143	chrY	22279671	.	C	A	8612.11	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
43144	chrY	22279707	.	A	C	4776.04	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
43145	chrY	22279714	.	G	T	175.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
43146	chrY	22279719	.	T	G	163.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
43147	chrY	22279722	.	C	T	246.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43148	chrY	22279831	.	C	T	1088.43	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
43149	chrY	22279854	.	A	C	466.81	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
43150	chrY	22279870	.	C	A	143.21	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
43151	chrY	22280008	.	C	A	61.19	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43152	chrY	22280011	.	T	C	61.24	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43153	chrY	22280037	.	A	T	80.48	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
43154	chrY	22280215	.	T	A	2131.93	PASS	AC=26;AF=0.520;AN=50;DP=279;FS=0.0
43155	chrY	22280222	.	T	C	1620.52	PASS	AC=6;AF=0.111;AN=54;DP=262;FS=0.0
43156	chrY	22280229	.	C	A	1667.87	PASS	AC=6;AF=0.115;AN=52;DP=259;FS=0.0
43157	chrY	22280235	.	A	G	1592.44	PASS	AC=4;AF=0.077;AN=52;DP=266;FS=0.0
43158	chrY	22280247	.	G	A	1546.13	PASS	AC=4;AF=0.069;AN=58;DP=260;FS=0.0
43159	chrY	22280254	.	A	C	1558.12	PASS	AC=4;AF=0.071;AN=56;DP=271;FS=0.0
43160	chrY	22280297	.	C	A	32.78	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43161	chrY	22280408	.	T	C	36.34	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43162	chrY	22280409	.	A	T	36.70	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43163	chrY	22280550	.	G	T	429.73	my_snp_filter	AC=2;AF=0.029;AN=68;DP=49
43164	chrY	22280564	.	T	A	515.10	my_snp_filter	AC=2;AF=0.029;AN=68;DP=53
43165	chrY	22281177	.	G	T	2534.60	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
43166	chrY	22281356	.	G	A	434.75	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
43167	chrY	22281364	.	G	A	1377.13	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
43168	chrY	22281387	.	T	A	750.02	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=

43169	chrY	22281397	.	T	C	819.36	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
43170	chrY	22281430	.	C	G	583.62	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
43171	chrY	22281441	.	C	G	493.03	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
43172	chrY	22281444	.	A	G	494.60	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
43173	chrY	22281460	.	T	A	194.65	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
43174	chrY	22281503	.	G	A	268.57	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
43175	chrY	22281510	.	C	G	272.95	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
43176	chrY	22281520	.	A	T	275.55	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
43177	chrY	22281614	.	G	A	961.75	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
43178	chrY	22281765	.	A	G	53.23	PASS	AC=2;AF=0.038;AN=52;DP=123;FS=0.
43179	chrY	22281789	.	C	T	1240.42	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=
43180	chrY	22281790	.	G	T	1240.42	PASS	AC=15;AF=0.833;AN=18;BaseQRankSum=
43181	chrY	22281798	.	T	A	742.36	PASS	AC=12;AF=0.667;AN=18;BaseQRankSum=
43182	chrY	22281808	.	C	G	101.60	PASS	AC=4;AF=0.250;AN=16;DP=23;FS=0.00
43183	chrY	22281811	.	A	C	103.13	PASS	AC=4;AF=0.333;AN=12;DP=23;FS=0.00
43184	chrY	22281813	.	C	T	60.48	PASS	AC=2;AF=0.167;AN=12;DP=19;FS=0.00
43185	chrY	22281842	.	C	G	76.19	PASS	AC=4;AF=1.00;AN=4;DP=9;FS=0.00;M
43186	chrY	22283518	.	G	A	138.44	my_snp_filter	AC=4;AF=0.400;AN=10;DP=20
43187	chrY	22283859	.	G	T	490.77	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
43188	chrY	22283921	.	G	T	669.44	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
43189	chrY	22284116	.	C	G	424.81	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
43190	chrY	22284151	.	C	T	489.78	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
43191	chrY	22284307	.	T	G	605.18	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
43192	chrY	22284507	.	T	A	716.28	my_snp_filter	AC=8;AF=1.00;AN=8;DP=31;F
43193	chrY	22284513	.	G	C	380.28	my_snp_filter	AC=7;AF=0.700;AN=10;BaseQ
43194	chrY	22286523	.	T	A	75.45	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
43195	chrY	22286549	.	C	G	214.23	my_snp_filter	AC=4;AF=0.111;AN=36;DP=72
43196	chrY	22286553	.	A	T	106.34	PASS	AC=4;AF=0.182;AN=22;DP=72;FS=0.00
43197	chrY	22286760	.	T	A	2284.72	my_snp_filter	AC=34;AF=0.654;AN=52;DP=2
43198	chrY	22286795	.	A	G	48.82	my_snp_filter	AC=2;AF=0.043;AN=46;DP=15
43199	chrY	22287125	.	A	G	762.66	my_snp_filter	AC=8;AF=0.571;AN=14;DP=65
43200	chrY	22287126	.	A	T	762.66	my_snp_filter	AC=8;AF=0.571;AN=14;DP=66
43201	chrY	22287145	.	G	C	1184.92	my_snp_filter	AC=13;AF=0.722;AN=18;Base
43202	chrY	22287151	.	G	T	38	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
43203	chrY	22287229	.	G	C	594.98	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
43204	chrY	22287259	.	C	G	5300.27	PASS	AC=45;AF=0.804;AN=56;BaseQRankSum=
43205	chrY	22287262	.	C	T	737.44	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
43206	chrY	22287292	.	C	A	897.42	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
43207	chrY	22287293	.	A	T	999.38	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
43208	chrY	22287344	.	G	T	2729.82	PASS	AC=23;AF=0.383;AN=60;BaseQRankSum=
43209	chrY	22287415	.	G	C	10861.53	PASS	AC=62;AF=0.969;AN=64;Base
43210	chrY	22287462	.	T	C	6221.47	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=
43211	chrY	22287464	.	G	A	6249.30	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum=
43212	chrY	22287485	.	A	G	6091.72	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
43213	chrY	22287533	.	C	T	5515.05	PASS	AC=24;AF=0.400;AN=60;BaseQRankSum=
43214	chrY	22287544	.	G	T,*	6657.11	PASS	AC=26,1;AF=0.448,0.017;AN=58;Base
43215	chrY	22287563	.	G	T,*	6122.29	PASS	AC=18,1;AF=0.281,0.016;AN=64;Base
43216	chrY	22287576	.	G	T,*	2860.62	PASS	AC=10,1;AF=0.161,0.016;AN=62;Base
43217	chrY	22287598	.	G	A	1690.93	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum=
43218	chrY	22287610	.	T	G	7994.97	PASS	AC=24;AF=0.400;AN=60;BaseQRankSum=
43219	chrY	22287620	.	C	A	1382.66	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
43220	chrY	22287637	.	G	A	895.34	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
43221	chrY	22287645	.	C	G	7103.79	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
43222	chrY	22287664	.	T	C	8309.59	PASS	AC=18;AF=0.333;AN=54;BaseQRankSum=
43223	chrY	22287669	.	T	G	261.50	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
43224	chrY	22287670	.	C	G	222.29	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
43225	chrY	22287677	.	A	G	131.06	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
43226	chrY	22287689	.	C	A	44.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
43227	chrY	22287721	.	A	T	10881.59	PASS	AC=30;AF=0.429;AN=70;Base
43228	chrY	22287728	.	C	A	10820.08	PASS	AC=30;AF=0.429;AN=70;Base
43229	chrY	22287741	.	G	T	10272.87	PASS	AC=30;AF=0.429;AN=70;Base
43230	chrY	22287753	.	G	A	9655.61	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
43231	chrY	22287819	.	C	G	12912.69	PASS	AC=33;AF=0.471;AN=70;Base
43232	chrY	22287822	.	T	C	13355.51	PASS	AC=33;AF=0.471;AN=70;Base
43233	chrY	22287854	.	C	T	13680.18	PASS	AC=31;AF=0.443;AN=70;Base
43234	chrY	22287880	.	G	T	14190.49	PASS	AC=23;AF=0.329;AN=70;Base
43235	chrY	22287883	.	C	T	13603.46	PASS	AC=30;AF=0.429;AN=70;Base
43236	chrY	22287898	.	T	C	12897.33	PASS	AC=29;AF=0.426;AN=68;Base
43237	chrY	22287924	.	T	A	10986.19	PASS	AC=28;AF=0.412;AN=68;Base
43238	chrY	22287932	.	T	G	10706.99	PASS	AC=27;AF=0.397;AN=68;Base
43239	chrY	22287951	.	C	G	9006.59	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
43240	chrY	22287985	.	G	T	9289.95	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
43241	chrY	22288036	.	G	T	37.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
43242	chrY	22288100	.	G	T	16161.12	PASS	AC=38;AF=0.559;AN=68;Base
43243	chrY	22288107	.	C	T	1852.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43244	chrY	22288108	.	T	A	1852.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

43245	chrY	22288195	.	T	A	4900.22	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
43246	chrY	22288217	.	T	A	1599.28	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
43247	chrY	22288218	.	A	G	3185.39	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
43248	chrY	22288235	.	G	A	1026.40	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
43249	chrY	22288244	.	C	A	298.42	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
43250	chrY	22288298	.	T	A	63.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43251	chrY	22288347	.	G	C	5442.13	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
43252	chrY	22288416	.	G	C	83	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
43253	chrY	22288421	.	T	C	109.93	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
43254	chrY	22288443	.	C	A	7082.38	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
43255	chrY	22288464	.	A	T	88.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
43256	chrY	22288519	.	C	T	7489.13	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
43257	chrY	22288528	.	G	T	1243.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43258	chrY	22288544	.	C	A	3748.02	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
43259	chrY	22288550	.	C	A	3481.63	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
43260	chrY	22288551	.	A	G	3438.70	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
43261	chrY	22288556	.	G	T	3011.53	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
43262	chrY	22288585	.	T	C	14816.90	PASS	AC=34;AF=0.486;AN=70;BaseQ
43263	chrY	22288607	.	C	A	127.36	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
43264	chrY	22288615	.	T	G	15559.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
43265	chrY	22288616	.	A	T	15491.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
43266	chrY	22288627	.	A	G	113.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
43267	chrY	22288634	.	G	T	157.36	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
43268	chrY	22288646	.	T	G	150.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
43269	chrY	22288668	.	A	T	31975.87	PASS	AC=70;AF=1.00;AN=70;BaseQ
43270	chrY	22288703	.	C	A	57.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
43271	chrY	22288731	.	C	A	80.93	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
43272	chrY	22288750	.	A	G	6233.66	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum
43273	chrY	22288774	.	T	G	60.17	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
43274	chrY	22288784	.	T	G	58.23	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
43275	chrY	22288793	.	A	T	6207	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
43276	chrY	22288822	.	T	C	24513.93	PASS	AC=68;AF=1.00;AN=68;BaseQ
43277	chrY	22288829	.	G	T	24118.95	PASS	AC=66;AF=1.00;AN=66;BaseQ
43278	chrY	22288851	.	G	C	5384.74	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
43279	chrY	22288864	.	G	A	5933.49	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum
43280	chrY	22288897	.	T	C	17734.23	PASS	AC=62;AF=0.969;AN=64;BaseQ
43281	chrY	22288914	.	G	A	131.79	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43282	chrY	22289138	.	C	G	7815.95	PASS	AC=29;AF=0.453;AN=64;BaseQRankSum
43283	chrY	22289157	.	G	T	7059.49	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum
43284	chrY	22289167	.	C	T	6414.89	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum
43285	chrY	22289174	.	T	A	5918.40	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum
43286	chrY	22289192	.	C	T	4643.73	my_snp_filter	AC=23;AF=0.383;AN=60;BaseQ
43287	chrY	22289217	.	T	C	73.22	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43288	chrY	22289232	.	T	A	333.43	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
43289	chrY	22289233	.	A	G	2200.24	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
43290	chrY	22289236	.	C	A	2709.59	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
43291	chrY	22289263	.	G	T	708.08	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
43292	chrY	22289264	.	A	C	139.72	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43293	chrY	22289275	.	A	G	786.42	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
43294	chrY	22289308	.	A	G	223.16	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
43295	chrY	22289312	.	T	A	224.83	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
43296	chrY	22289314	.	T	C	203.86	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
43297	chrY	22289319	.	G	T	183.31	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
43298	chrY	22289321	.	C	G,*	4612.08	PASS	AC=45,1;AF=0.900,0.020;AN=50;BaseQ
43299	chrY	22289322	.	C	A	156.89	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
43300	chrY	22289327	.	C	T	120.61	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
43301	chrY	22289333	.	G	T	82.61	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43302	chrY	22289351	.	T	G	1984.44	my_snp_filter	AC=21;AF=0.955;AN=22;BaseQ
43303	chrY	22289358	.	G	A	1386.96	my_snp_filter	AC=17;AF=0.850;AN=20;BaseQ
43304	chrY	22289363	.	G	C	1029.76	my_snp_filter	AC=11;AF=0.786;AN=14;BaseQ
43305	chrY	22289385	.	G	C	676.13	my_snp_filter	AC=9;AF=0.900;AN=10;BaseQ
43306	chrY	22289412	.	T	A	157.13	my_snp_filter	AC=2;AF=1.00;AN=2;DP=8;FS
43307	chrY	22292095	.	G	T	59.25	PASS	AC=2;AF=0.250;AN=8;DP=9;FS=0.000;
43308	chrY	22292130	.	T	C	61.75	PASS	AC=2;AF=0.250;AN=8;DP=9;FS=0.000;
43309	chrY	22292139	.	T	C	63.01	PASS	AC=2;AF=0.333;AN=6;DP=5;FS=0.000;
43310	chrY	22292142	.	C	T	63.02	PASS	AC=2;AF=0.333;AN=6;DP=4;FS=0.000;
43311	chrY	22292935	.	A	C	30.02	PASS	AC=2;AF=0.333;AN=6;DP=5;FS=0.000;
43312	chrY	22292945	.	G	C	31.93	PASS	AC=2;AF=0.500;AN=4;DP=4;FS=0.000;
43313	chrY	22293311	.	G	T	53.24	my_snp_filter	AC=2;AF=0.063;AN=32;DP=71
43314	chrY	22293312	.	A	T	49.18	PASS	AC=2;AF=0.038;AN=52;DP=75;FS=0.00
43315	chrY	22293314	.	A	C	51.09	PASS	AC=2;AF=0.043;AN=46;DP=70;FS=0.00
43316	chrY	22293320	.	G	T	52.57	PASS	AC=2;AF=0.053;AN=38;DP=62;FS=0.00
43317	chrY	22293350	.	G	A	55.68	PASS	AC=2;AF=0.111;AN=18;DP=22;FS=0.00
43318	chrY	22293358	.	A	T	60.95	PASS	AC=2;AF=0.333;AN=6;DP=18;FS=0.000
43319	chrY	22293378	.	C	T	54.86	PASS	AC=2;AF=0.111;AN=18;DP=27;FS=0.00
43320	chrY	22293437	.	T	A	487.36	PASS	AC=10;AF=0.833;AN=12;DP=81;FS=0.00

43321	chrY	22293473	.	A	G	1864.95	PASS	AC=25;AF=0.625;AN=40;BaseQRankSum=
43322	chrY	22293571	.	G	A	772.66	PASS	AC=6;AF=0.088;AN=68;DP=391;FS=10.
43323	chrY	22293676	.	T	G	11452.98	PASS	AC=58;AF=1.00;AN=58;BaseQ
43324	chrY	22293825	.	G	A	166.35	PASS	AC=2;AF=0.030;AN=66;DP=313;FS=0.0
43325	chrY	22293914	.	G	T	213.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
43326	chrY	22293969	.	G	T	667.37	PASS	AC=2;AF=0.029;AN=70;DP=586;FS=0.0
43327	chrY	22293981	.	C	G	19306.88	PASS	AC=64;AF=1.00;AN=64;BaseQ
43328	chrY	22293992	.	G	T	2456.58	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43329	chrY	22294043	.	C	A	84.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43330	chrY	22294045	.	T	A	78.82	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43331	chrY	22294068	.	A	G	75.84	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43332	chrY	22294071	.	T	G	81.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43333	chrY	22294072	.	C	T	81.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43334	chrY	22294073	.	T	C	188.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43335	chrY	22294292	.	A	T	927.08	PASS	AC=6;AF=0.086;AN=70;DP=487;FS=0.0
43336	chrY	22294405	.	G	C	1075.26	PASS	AC=2;AF=0.029;AN=70;DP=654;FS=0.0
43337	chrY	22294521	.	C	T	16373.06	PASS	AC=62;AF=1.00;AN=62;BaseQ
43338	chrY	22294522	.	C	T	16048.17	PASS	AC=62;AF=1.00;AN=62;BaseQ
43339	chrY	22294535	.	C	T	14321.96	PASS	AC=60;AF=1.00;AN=60;DP=31
43340	chrY	22294541	.	C	T	13335.97	PASS	AC=60;AF=1.00;AN=60;DP=30
43341	chrY	22294664	.	T	C	463.83	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
43342	chrY	22294666	.	T	A	382.80	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
43343	chrY	22294693	.	G	C	62.59	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
43344	chrY	22294694	.	C	T	62.30	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
43345	chrY	22294699	.	T	C	62.21	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43346	chrY	22294706	.	T	A	45.13	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
43347	chrY	22294786	.	G	C	304.88	my_snp_filter	AC=4;AF=0.069;AN=58;DP=26
43348	chrY	22294944	.	G	A	730.73	my_snp_filter	AC=19;AF=0.528;AN=36;BaseQ
43349	chrY	22295001	.	T	A	584.69	PASS	AC=11;AF=0.611;AN=18;BaseQRankSum=
43350	chrY	22295012	.	G	A	605.33	my_snp_filter	AC=8;AF=0.400;AN=20;BaseQ
43351	chrY	22295019	.	C	T	222.99	PASS	AC=4;AF=0.222;AN=18;DP=43;FS=0.00
43352	chrY	22295021	.	T	A	45.24	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
43353	chrY	22295025	.	A	G	223.33	my_snp_filter	AC=3;AF=0.250;AN=12;BaseQ
43354	chrY	22295027	.	C	T	141.12	my_snp_filter	AC=2;AF=0.111;AN=18;DP=45
43355	chrY	22295038	.	T	A	55.25	my_snp_filter	AC=2;AF=0.091;AN=22;DP=47
43356	chrY	22295041	.	T	A	55.21	my_snp_filter	AC=2;AF=0.091;AN=22;DP=49
43357	chrY	22295109	.	C	G	526.11	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
43358	chrY	22295117	.	T	A	524.93	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
43359	chrY	22295128	.	G	A	520.54	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
43360	chrY	22295193	.	C	T	347.29	my_snp_filter	AC=5;AF=0.139;AN=36;BaseQ
43361	chrY	22295221	.	T	A	206.10	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
43362	chrY	22295230	.	C	G	112.30	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
43363	chrY	22295252	.	T	G	65.15	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
43364	chrY	22295355	.	C	A	508.72	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
43365	chrY	22295364	.	C	G	757.87	my_snp_filter	AC=14;AF=0.219;AN=64;BaseQ
43366	chrY	22295372	.	A	C	172.82	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
43367	chrY	22295384	.	A	C	339.45	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43368	chrY	22295408	.	T	G	212.21	PASS	AC=4;AF=0.065;AN=62;DP=257;FS=0.0
43369	chrY	22295437	.	G	A	47.71	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
43370	chrY	22295445	.	C	A	47.78	PASS	AC=1;AF=0.018;AN=56;DP=167;FS=0.0
43371	chrY	22295446	.	A	C	52.81	PASS	AC=2;AF=0.037;AN=54;DP=163;FS=0.0
43372	chrY	22295570	.	A	C	2544.63	my_snp_filter	AC=30;AF=0.714;AN=42;DP=2
43373	chrY	22295778	.	C	A	243.23	my_snp_filter	AC=6;AF=0.250;AN=24;DP=50
43374	chrY	22295906	.	G	T	34.15	my_snp_filter	AC=2;AF=0.167;AN=12;DP=17
43375	chrY	22295995	.	C	T	60.86	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
43376	chrY	22296044	.	C	T	402.22	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
43377	chrY	22296093	.	G	T	66.95	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
43378	chrY	22296098	.	C	G	3224.61	PASS	AC=21;AF=0.955;AN=22;BaseQRankSum=
43379	chrY	22296099	.	A	G	3224.61	PASS	AC=21;AF=0.955;AN=22;BaseQRankSum=
43380	chrY	22296126	.	G	T	63.86	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
43381	chrY	22296131	.	G	C	64.42	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
43382	chrY	22296133	.	T	A	66.19	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
43383	chrY	22296152	.	T	G	2443.07	PASS	AC=24;AF=0.923;AN=26;BaseQRankSum=
43384	chrY	22296169	.	C	T	65.22	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
43385	chrY	22296171	.	C	T	57.57	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
43386	chrY	22296174	.	C	A	58.38	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
43387	chrY	22296181	.	A	G	33.33	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
43388	chrY	22296209	.	T	C	32.44	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
43389	chrY	22296218	.	G	T	30.31	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
43390	chrY	22296341	.	C	A	377.99	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
43391	chrY	22296362	.	A	T	375.13	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
43392	chrY	22296392	.	A	C	37.14	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43393	chrY	22296396	.	G	C	36.49	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43394	chrY	22296540	.	G	C	534.13	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
43395	chrY	22296563	.	T	G	40.56	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43396	chrY	22296570	.	G	C	44.56	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=

43397	chrY	22296579	.	T	G	40.38	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
43398	chrY	22296608	.	T	C	6491.26	PASS	AC=30;AF=0.484;AN=62;BaseQRankSum
43399	chrY	22296636	.	T	C	295.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
43400	chrY	22296684	.	A	T	4512.20	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
43401	chrY	22296687	.	G	C	4788.51	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
43402	chrY	22296689	.	T	G	4759.50	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
43403	chrY	22296695	.	C	A	7774.15	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
43404	chrY	22296697	.	T	C	5055.53	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
43405	chrY	22296754	.	G	A	4648.94	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum
43406	chrY	22296756	.	G	A	604.73	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43407	chrY	22296777	.	G	A	1811.57	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43408	chrY	22296783	.	A	T	14534.15	PASS	AC=32;AF=0.500;AN=64;BaseQ
43409	chrY	22296789	.	C	T	3473.14	PASS	AC=15;AF=0.227;AN=66;BaseQRankSum
43410	chrY	22296801	.	A	C	3139.68	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum
43411	chrY	22296805	.	A	G	3079.87	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum
43412	chrY	22296826	.	G	T	2264.66	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
43413	chrY	22296828	.	A	T	160.33	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43414	chrY	22296836	.	T	A	157.25	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43415	chrY	22296849	.	G	T	1335.65	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
43416	chrY	22296856	.	C	G	6590.74	PASS	AC=28;AF=0.483;AN=58;BaseQRankSum
43417	chrY	22296919	.	C	T	3125.93	PASS	AC=22;AF=0.355;AN=62;BaseQRankSum
43418	chrY	22296923	.	C	A	43.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43419	chrY	22296936	.	G	T	53.89	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43420	chrY	22296937	.	C	G	973.05	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43421	chrY	22296941	.	A	T	3344.70	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum
43422	chrY	22296951	.	C	G	2945.34	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum
43423	chrY	22296968	.	T	G	35	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43424	chrY	22296975	.	T	A	35.06	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43425	chrY	22296981	.	G	A	38.08	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
43426	chrY	22297025	.	G	T,*	2681.33	PASS	AC=20,6;AF=0.714,0.214;AN=28;DP=7
43427	chrY	22297028	.	C	A	1980.04	PASS	AC=20;AF=0.909;AN=22;DP=84;FS=0.0
43428	chrY	22297029	.	T	A	1980.04	PASS	AC=20;AF=0.909;AN=22;DP=84;FS=0.0
43429	chrY	22297073	.	G	A,*	894.64	PASS	AC=4,6;AF=0.333,0.500;AN=12;DP=20
43430	chrY	22297817	.	C	G	196.03	PASS	AC=6;AF=1.00;AN=6;DP=67;FS=0.000;
43431	chrY	22297867	.	T	A	589.56	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
43432	chrY	22297870	.	G	T	605.32	PASS	AC=7;AF=0.500;AN=14;BaseQRankSum=
43433	chrY	22297973	.	A	G	641.33	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43434	chrY	22298015	.	G	C	531.73	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
43435	chrY	22298024	.	T	A	395.48	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
43436	chrY	22298063	.	T	G	108.46	PASS	AC=2;AF=0.033;AN=60;DP=222;FS=0.0
43437	chrY	22298258	.	A	G	1368.13	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum
43438	chrY	22298279	.	G	A	4698.50	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum
43439	chrY	22298321	.	C	A	286.35	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43440	chrY	22298322	.	C	T	4211.89	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
43441	chrY	22298339	.	C	A	3954.96	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
43442	chrY	22298344	.	C	T	348.77	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43443	chrY	22298346	.	T	G	346.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43444	chrY	22298366	.	A	T	1562.27	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum
43445	chrY	22298393	.	A	T	221.54	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
43446	chrY	22298403	.	G	A	7481.50	PASS	AC=42;AF=0.618;AN=68;BaseQRankSum
43447	chrY	22298413	.	T	A	46.30	PASS	AC=2;AF=0.029;AN=70;DP=489;FS=0.0
43448	chrY	22298433	.	A	G	45.76	PASS	AC=2;AF=0.029;AN=70;DP=539;FS=0.0
43449	chrY	22298447	.	C	A	1521.15	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
43450	chrY	22298450	.	T	C	107.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
43451	chrY	22298452	.	C	T	3393.70	my_snp_filter	AC=20;AF=0.313;AN=64;BaseQ
43452	chrY	22298454	.	G	C	104.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
43453	chrY	22298457	.	A	C	1943.55	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
43454	chrY	22298458	.	G	T	1940.56	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
43455	chrY	22298469	.	C	G	7473.87	my_snp_filter	AC=30;AF=0.429;AN=70;BaseQ
43456	chrY	22298481	.	A	G	7027.34	my_snp_filter	AC=30;AF=0.441;AN=68;BaseQ
43457	chrY	22298497	.	C	T	6326.62	my_snp_filter	AC=27;AF=0.386;AN=70;BaseQ
43458	chrY	22298545	.	G	C	7601.55	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum
43459	chrY	22298549	.	G	C	2292.77	my_snp_filter	AC=20;AF=0.294;AN=68;BaseQ
43460	chrY	22298554	.	A	C	2243.89	my_snp_filter	AC=20;AF=0.303;AN=66;BaseQ
43461	chrY	22298572	.	C	T,A	7732.50	PASS	AC=16,16;AF=0.250,0.250;AN=64;Bas
43462	chrY	22298581	.	T	A	7967.42	PASS	AC=35;AF=0.530;AN=66;BaseQRankSum
43463	chrY	22298595	.	T	A	4495.37	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
43464	chrY	22298619	.	T	G	282.63	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
43465	chrY	22298663	.	T	A	1219.63	my_snp_filter	AC=11;AF=0.190;AN=58;BaseQ
43466	chrY	22298716	.	A	G	41.95	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
43467	chrY	22298718	.	T	A	36.03	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
43468	chrY	22298805	.	A	C	405.92	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
43469	chrY	22298822	.	C	T	25188.84	PASS	AC=45;AF=0.750;AN=60;BaseQ
43470	chrY	22298879	.	A	T	793.92	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
43471	chrY	22299040	.	G	T	514.36	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43472	chrY	22299099	.	T	A	46.66	my_snp_filter	AC=2;AF=0.034;AN=58;DP=52

43473	chrY	22299121	.	T	C	73.97	my_snp_filter	AC=2;AF=0.034;AN=58;DP=48
43474	chrY	22299430	.	C	T	1100.97	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
43475	chrY	22299577	.	T	C	32.19	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
43476	chrY	22299601	.	A	T	53.36	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
43477	chrY	22299603	.	G	T	56.65	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43478	chrY	22299706	.	G	T	1016.33	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
43479	chrY	22299726	.	A	T	7867.44	PASS	AC=40;AF=0.625;AN=64;DP=478;FS=0.
43480	chrY	22299830	.	G	T	722.87	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43481	chrY	22299844	.	T	C	15914.90	PASS	AC=64;AF=1.00;AN=64;BaseQ
43482	chrY	22300054	.	C	T	515.96	PASS	AC=6;AF=0.097;AN=62;DP=476;FS=0.
43483	chrY	22300233	.	T	G	6282.39	PASS	AC=31;AF=0.554;AN=56;BaseQRankSum=
43484	chrY	22300485	.	C	A	31	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
43485	chrY	22300500	.	C	T	31.76	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
43486	chrY	22300514	.	A	T	43.37	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
43487	chrY	22300707	.	A	G	286.55	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
43488	chrY	22300724	.	A	C	443.30	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
43489	chrY	22300813	.	G	A	122.33	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
43490	chrY	22300822	.	C	A	127.59	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
43491	chrY	22300825	.	A	T	49.05	PASS	AC=1;AF=0.083;AN=12;BaseQRankSum=
43492	chrY	22300826	.	G	A	44.88	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43493	chrY	22300832	.	A	C	46.02	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
43494	chrY	22300833	.	G	T	47.46	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
43495	chrY	22300834	.	G	T	52.92	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43496	chrY	22300851	.	T	G	101.08	PASS	AC=2;AF=0.500;AN=4;DP=12;FS=0.000
43497	chrY	22300874	.	G	T	101.06	PASS	AC=2;AF=0.500;AN=4;DP=5;FS=0.000;
43498	chrY	22301114	.	A	G	62.28	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
43499	chrY	22301149	.	T	A	367.94	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
43500	chrY	22301220	.	A	T	7844.63	PASS	AC=57;AF=0.983;AN=58;BaseQRankSum=
43501	chrY	22301237	.	G	C	104.45	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
43502	chrY	22301243	.	G	T	2166.12	my_snp_filter	AC=14;AF=0.219;AN=64;Base
43503	chrY	22301260	.	T	C	418.26	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
43504	chrY	22301398	.	T	C	213.73	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43505	chrY	22301584	.	T	G	41.48	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
43506	chrY	22301589	.	A	G	1402.35	PASS	AC=26;AF=0.765;AN=34;BaseQRankSum=
43507	chrY	22301598	.	G	T	471.11	my_snp_filter	AC=12;AF=0.462;AN=26;Base
43508	chrY	22301617	.	T	G	180.19	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
43509	chrY	22301663	.	C	G	5466.31	PASS	AC=51;AF=0.981;AN=52;BaseQRankSum=
43510	chrY	22301742	.	G	T	371.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43511	chrY	22301798	.	A	C	5568.21	my_snp_filter	AC=31;AF=0.443;AN=70;Base
43512	chrY	22301823	.	A	G	61.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43513	chrY	22301827	.	T	G	88.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
43514	chrY	22301828	.	T	G	58.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43515	chrY	22301867	.	A	G	313.13	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
43516	chrY	22301989	.	A	T	825.67	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
43517	chrY	22301992	.	C	G	825.26	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
43518	chrY	22302080	.	A	G	4852.81	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
43519	chrY	22302093	.	G	A	99.16	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43520	chrY	22302096	.	T	C	93.16	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43521	chrY	22302097	.	A	T	73.56	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43522	chrY	22302105	.	G	A	75.19	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43523	chrY	22302112	.	G	C	4292.52	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
43524	chrY	22302171	.	A	T	43.27	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
43525	chrY	22302276	.	G	T	11929.93	PASS	AC=56;AF=1.00;AN=56;DP=39
43526	chrY	22302429	.	T	C	7215.68	my_snp_filter	AC=41;AF=0.621;AN=66;Base
43527	chrY	22302537	.	C	T	16219.93	PASS	AC=60;AF=1.00;AN=60;DP=37
43528	chrY	22302708	.	T	A	4092.41	PASS	AC=44;AF=0.786;AN=56;DP=309;FS=0.
43529	chrY	22302729	.	G	T	1060.77	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
43530	chrY	22302997	.	T	A	48.80	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
43531	chrY	22303000	.	T	G	33.77	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
43532	chrY	22303133	.	T	A	5740.27	PASS	AC=37;AF=0.974;AN=38;BaseQRankSum=
43533	chrY	22303211	.	G	T,*	1582.91	PASS	AC=10,2;AF=0.147,0.029;AN=68;Base
43534	chrY	22303218	.	C	T,*	1812.81	PASS	AC=10,2;AF=0.156,0.031;AN=64;Base
43535	chrY	22303306	.	T	C,*	1848.89	PASS	AC=10,4;AF=0.152,0.061;AN=66;Base
43536	chrY	22303309	.	C	T	158.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43537	chrY	22303311	.	A	G	153.92	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43538	chrY	22303364	.	A	T	6361.71	my_snp_filter	AC=20;AF=0.294;AN=68;Base
43539	chrY	22303387	.	G	A	1211.39	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43540	chrY	22303422	.	A	G	9549.60	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
43541	chrY	22303425	.	T	A	663.44	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
43542	chrY	22303453	.	C	T	622.33	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
43543	chrY	22303458	.	C	G	8349.69	PASS	AC=18;AF=0.321;AN=56;BaseQRankSum=
43544	chrY	22303463	.	A	G	7807.73	PASS	AC=18;AF=0.310;AN=58;BaseQRankSum=
43545	chrY	22303464	.	A	G	618.39	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
43546	chrY	22303466	.	C	T	8228.96	PASS	AC=23;AF=0.442;AN=52;BaseQRankSum=
43547	chrY	22303470	.	C	A	527.24	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
43548	chrY	22303500	.	G	C	5738.94	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=

43549	chrY	22303512	.	C	G	9878.60	my_snp_filter	AC=29;AF=0.537;AN=54;BaseQ=
43550	chrY	22303528	.	C	T	3044.76	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ=
43551	chrY	22303530	.	T	A	42.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43552	chrY	22303578	.	C	A	1257.24	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ=
43553	chrY	22303583	.	C	T	1814.26	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ=
43554	chrY	22303588	.	A	C	1032.64	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
43555	chrY	22303589	.	G	T	1031.83	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ=
43556	chrY	22303730	.	T	A	248.94	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQ=
43557	chrY	22303739	.	G	A	157.41	my_snp_filter	AC=2;AF=0.040;AN=50;DP=18
43558	chrY	22303926	.	T	A	574.84	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
43559	chrY	22303945	.	C	A	523.27	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
43560	chrY	22303981	.	G	A,*	2491.63	PASS	AC=3,10;AF=0.044,0.147;AN=68;BaseQ=
43561	chrY	22303983	.	T	C,*	2068.69	PASS	AC=3,10;AF=0.045,0.152;AN=66;BaseQ=
43562	chrY	22303995	.	A	C,*	2496.24	PASS	AC=3,10;AF=0.045,0.152;AN=66;BaseQ=
43563	chrY	22304006	.	T	A,*	2294.60	PASS	AC=3,10;AF=0.045,0.152;AN=66;BaseQ=
43564	chrY	22304012	.	T	G,*	2310.50	PASS	AC=3,10;AF=0.045,0.152;AN=66;BaseQ=
43565	chrY	22304054	.	C	A,*	2032.44	PASS	AC=1,10;AF=0.016,0.161;AN=62;BaseQ=
43566	chrY	22306601	.	C	G	178.44	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ=
43567	chrY	22307089	.	A	G	109.09	my_snp_filter	AC=3;AF=0.375;AN=8;BaseQR=
43568	chrY	22307339	.	T	C	43.44	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ=
43569	chrY	22307369	.	C	G	186.58	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ=
43570	chrY	22307385	.	G	T	43.38	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ=
43571	chrY	22307452	.	A	C	170.89	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ=
43572	chrY	22307470	.	G	T	109.41	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ=
43573	chrY	22307480	.	C	G	116.10	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ=
43574	chrY	22308467	.	G	T	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=10;FS=
43575	chrY	22308470	.	A	G	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=10;FS=
43576	chrY	22308473	.	A	T	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=10;FS=
43577	chrY	22308489	.	A	C	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=9;FS=
43578	chrY	22308491	.	G	C	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=9;FS=
43579	chrY	22308494	.	G	T	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=9;FS=
43580	chrY	22308502	.	C	T	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=8;FS=
43581	chrY	22308531	.	G	A	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=9;FS=
43582	chrY	22311189	.	A	G	47.93	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
43583	chrY	22311205	.	C	A	47.93	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
43584	chrY	22311206	.	C	A	48.82	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43585	chrY	22311214	.	G	T	48.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
43586	chrY	22311216	.	G	C	48.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
43587	chrY	22311218	.	G	C	91.71	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
43588	chrY	22311220	.	A	T	48.38	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
43589	chrY	22311223	.	G	C	47.50	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
43590	chrY	22312293	.	G	T	331.31	my_snp_filter	AC=6;AF=0.375;AN=16;DP=30
43591	chrY	22312640	.	C	T	420.70	my_snp_filter	AC=2;AF=0.029;AN=68;DP=45
43592	chrY	22312706	.	G	T	636.05	PASS	AC=6;AF=0.100;AN=60;DP=175;FS=0.0
43593	chrY	22312709	.	C	T	149.89	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43594	chrY	22312710	.	C	A	149.53	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43595	chrY	22312790	.	G	T	587.58	PASS	AC=6;AF=0.188;AN=32;DP=92;FS=0.00
43596	chrY	22314402	.	C	T	1257.84	PASS	AC=6;AF=0.300;AN=20;DP=301;FS=0.0
43597	chrY	22314446	.	T	G	7479.92	my_snp_filter	AC=59;AF=0.952;AN=62;BaseQ=
43598	chrY	22314822	.	A	C	334.91	PASS	AC=12;AF=1.00;AN=12;DP=15;FS=0.00
43599	chrY	22315433	.	C	G	148.75	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ=
43600	chrY	22315440	.	G	T	40.09	PASS	AC=2;AF=0.083;AN=24;DP=54;FS=0.00
43601	chrY	22315533	.	G	A	59.20	PASS	AC=2;AF=0.043;AN=46;DP=80;FS=0.00
43602	chrY	22315744	.	C	T	231.35	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
43603	chrY	22316252	.	T	G	57.83	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43604	chrY	22316280	.	A	C	163.88	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ=
43605	chrY	22316304	.	C	G	120.88	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ=
43606	chrY	22316366	.	A	G	661.57	my_snp_filter	AC=8;AF=0.182;AN=44;BaseQ=
43607	chrY	22316424	.	A	T	2957.85	my_snp_filter	AC=11;AF=0.550;AN=20;BaseQ=
43608	chrY	22316445	.	T	A	124.14	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ=
43609	chrY	22316451	.	C	G	4337.27	my_snp_filter	AC=25;AF=0.735;AN=34;BaseQ=
43610	chrY	22316543	.	T	C	3628.77	PASS	AC=30;AF=0.500;AN=60;BaseQRankSum=
43611	chrY	22316549	.	G	T	95.43	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43612	chrY	22316560	.	C	G	96.97	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43613	chrY	22316578	.	A	T	89.36	my_snp_filter	AC=2;AF=0.030;AN=66;DP=47
43614	chrY	22316647	.	C	G	11046.02	PASS	AC=60;AF=1.00;AN=60;DP=39
43615	chrY	22316728	.	A	G	67.39	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43616	chrY	22316739	.	C	T	58.78	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43617	chrY	22316743	.	T	A	58.78	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43618	chrY	22316759	.	T	A	64.32	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43619	chrY	22316772	.	G	C	71.22	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43620	chrY	22316774	.	A	T	67.25	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43621	chrY	22316789	.	G	T	77.08	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43622	chrY	22316807	.	G	C	42.58	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43623	chrY	22316911	.	C	G	656.54	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
43624	chrY	22316928	.	A	T	1685.69	PASS	AC=26;AF=0.464;AN=56;DP=300;FS=0.

43625	chrY	22317325	.	C	A	340.40	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43626	chrY	22317328	.	G	C	218.05	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
43627	chrY	22317333	.	A	T	621.53	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
43628	chrY	22317597	.	G	T	348.45	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
43629	chrY	22317604	.	G	T	209.80	PASS	AC=4;AF=0.080;AN=50;DP=154;FS=0.0
43630	chrY	22317605	.	T	A	290.02	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
43631	chrY	22317611	.	T	C	125.19	PASS	AC=4;AF=0.080;AN=50;DP=136;FS=0.0
43632	chrY	22317618	.	G	T	50.31	PASS	AC=2;AF=0.048;AN=42;DP=132;FS=0.0
43633	chrY	22317621	.	G	T	50.36	PASS	AC=2;AF=0.045;AN=44;DP=131;FS=0.0
43634	chrY	22317624	.	T	A	50.57	PASS	AC=2;AF=0.048;AN=42;DP=127;FS=0.0
43635	chrY	22317674	.	C	G	1989.87	my_snp_filter	AC=12;AF=1.00;AN=12;DP=81
43636	chrY	22317949	.	A	C	1031.66	my_snp_filter	AC=8;AF=0.667;AN=12;BaseQ
43637	chrY	22317950	.	A	C	1036.79	my_snp_filter	AC=8;AF=0.800;AN=10;BaseQ
43638	chrY	22318092	.	T	A	240.21	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
43639	chrY	22318146	.	C	T	92.61	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
43640	chrY	22318148	.	A	G	91.07	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
43641	chrY	22318156	.	G	T	83.38	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
43642	chrY	22318161	.	A	G	86.55	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43643	chrY	22318171	.	G	T	88.94	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
43644	chrY	22318188	.	T	G	52.92	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
43645	chrY	22318195	.	T	A	52.97	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
43646	chrY	22318259	.	A	G	74.58	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
43647	chrY	22318260	.	T	C	74.50	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
43648	chrY	22318301	.	T	G	3349.27	my_snp_filter	AC=40;AF=1.00;AN=40;DP=14
43649	chrY	22318302	.	T	A	141.71	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
43650	chrY	22318501	.	G	T	321.47	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum=
43651	chrY	22318641	.	A	C	9652.15	PASS	AC=32;AF=1.00;AN=32;DP=231;FS=0.0
43652	chrY	22318642	.	G	A	9710.14	PASS	AC=32;AF=1.00;AN=32;DP=230;FS=0.0
43653	chrY	22318643	.	A	C	9710.14	PASS	AC=32;AF=1.00;AN=32;DP=232;FS=0.0
43654	chrY	22318649	.	T	A	6243.51	PASS	AC=28;AF=0.875;AN=32;BaseQRankSum=
43655	chrY	22318732	.	G	C	64.74	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43656	chrY	22318748	.	A	C	1600.26	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
43657	chrY	22318765	.	G	C	73.35	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43658	chrY	22318768	.	C	T	89.96	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43659	chrY	22318836	.	T	C	93.45	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
43660	chrY	22318855	.	G	A	172.63	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
43661	chrY	22318893	.	T	C	212.15	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
43662	chrY	22318895	.	T	C	75.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
43663	chrY	22318904	.	T	A	38.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
43664	chrY	22318917	.	A	T	83.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43665	chrY	22318955	.	C	G	1178.59	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
43666	chrY	22318978	.	T	C	9894.83	PASS	AC=46;AF=0.920;AN=50;BaseQRankSum=
43667	chrY	22318999	.	T	G	9054.42	PASS	AC=40;AF=0.909;AN=44;BaseQRankSum=
43668	chrY	22319065	.	T	C	7471.93	PASS	AC=34;AF=0.850;AN=40;BaseQRankSum=
43669	chrY	22319066	.	A	T	7429.93	PASS	AC=34;AF=0.850;AN=40;BaseQRankSum=
43670	chrY	22319170	.	A	T	11521.83	PASS	AC=45;AF=0.900;AN=50;BaseQ
43671	chrY	22319171	.	G	T	11583.56	PASS	AC=46;AF=0.920;AN=50;BaseQ
43672	chrY	22319202	.	G	T	2007.38	PASS	AC=18;AF=0.429;AN=42;DP=378;FS=0.
43673	chrY	22319261	.	T	G	11464.06	PASS	AC=44;AF=1.00;AN=44;DP=31
43674	chrY	22319287	.	C	G	12145.01	PASS	AC=36;AF=1.00;AN=36;DP=29
43675	chrY	22319288	.	C	A	12210.02	PASS	AC=36;AF=1.00;AN=36;DP=28
43676	chrY	22319362	.	A	T	16079.80	PASS	AC=50;AF=1.00;AN=50;DP=39
43677	chrY	22319363	.	T	A	16025.98	PASS	AC=50;AF=1.00;AN=50;DP=39
43678	chrY	22319609	.	G	A	16024.99	PASS	AC=60;AF=1.00;AN=60;DP=51
43679	chrY	22320099	.	G	C	258.60	PASS	AC=2;AF=0.031;AN=64;DP=453;FS=0.0
43680	chrY	22320386	.	C	A	126.72	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43681	chrY	22320387	.	G	T	124.72	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43682	chrY	22320395	.	G	T	82.71	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
43683	chrY	22320533	.	C	G	87.31	PASS	AC=2;AF=0.250;AN=8;BaseQRankSum=0
43684	chrY	22321378	.	C	T	899.04	my_snp_filter	AC=12;AF=1.00;AN=12;BaseQ
43685	chrY	22321735	.	G	A	187.54	my_snp_filter	AC=6;AF=0.143;AN=42;DP=66
43686	chrY	22325173	.	C	T	63.03	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;FS=0.0
43687	chrY	22325364	.	G	C,*	387.45	my_snp_filter	AC=2,2;AF=0.333,0.333;AN=
43688	chrY	22325410	.	T	C,*	436.33	my_snp_filter	AC=2,2;AF=0.333,0.333;AN=
43689	chrY	22325500	.	T	C	234.04	PASS	AC=6;AF=0.120;AN=50;DP=120;FS=0.0
43690	chrY	22325770	.	G	A	432.36	my_snp_filter	AC=6;AF=0.333;AN=18;DP=50
43691	chrY	22325813	.	T	G	436.62	my_snp_filter	AC=7;AF=0.875;AN=8;BaseQR
43692	chrY	22325989	.	G	A	36.66	PASS	AC=2;AF=0.125;AN=16;DP=38;FS=0.00
43693	chrY	22326770	.	G	T	145.95	my_snp_filter	AC=2;AF=0.125;AN=16;DP=47
43694	chrY	22328616	.	T	A	407.10	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
43695	chrY	22328862	.	A	T	51.51	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
43696	chrY	22334020	.	A	G	129.73	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
43697	chrY	22334024	.	A	C	108.82	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
43698	chrY	22334025	.	A	T	108.82	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
43699	chrY	22334763	.	C	A	76.50	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
43700	chrY	22334782	.	G	T	74.97	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ

43701	chrY	22334888	.	C	T	1186.02	PASS	AC=20;AF=0.526;AN=38;DP=217;FS=0.0
43702	chrY	22335141	.	C	A	52.15	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43703	chrY	22335187	.	A	G	190.31	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
43704	chrY	22335188	.	G	T	186.24	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
43705	chrY	22336437	.	G	A	542.60	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
43706	chrY	22336504	.	G	T	131.67	my_snp_filter	AC=2;AF=0.029;AN=68;DP=24
43707	chrY	22336957	.	A	G	70.54	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
43708	chrY	22339370	.	T	G	405.78	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
43709	chrY	22339397	.	T	C	905.50	PASS	AC=6;AF=0.100;AN=60;DP=192;FS=0.0
43710	chrY	22339469	.	G	T	37.67	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
43711	chrY	22339483	.	G	C	75.95	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
43712	chrY	22339491	.	T	A	157.15	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
43713	chrY	22339494	.	T	C	150.34	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
43714	chrY	22339503	.	G	A	144.29	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
43715	chrY	22339506	.	T	A	147.29	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
43716	chrY	22339532	.	A	T	1053.29	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
43717	chrY	22339835	.	C	A	1800.12	PASS	AC=6;AF=0.107;AN=56;DP=225;FS=0.0
43718	chrY	22339836	.	C	A	1800.04	PASS	AC=6;AF=0.107;AN=56;DP=226;FS=0.0
43719	chrY	22339950	.	T	G	4401.54	my_snp_filter	AC=38;AF=0.760;AN=50;Base
43720	chrY	22339997	.	C	T	38.79	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
43721	chrY	22340047	.	C	A	540.53	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
43722	chrY	22340048	.	T	C	153.73	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43723	chrY	22340052	.	C	T	748.79	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
43724	chrY	22340057	.	A	C	452.13	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
43725	chrY	22340058	.	G	T	452.22	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
43726	chrY	22340078	.	A	G	112.13	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43727	chrY	22340243	.	T	C	834.84	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43728	chrY	22340244	.	C	T	834.77	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
43729	chrY	22340341	.	T	A	198.79	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43730	chrY	22340345	.	A	T	194.86	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43731	chrY	22340347	.	G	C	194.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
43732	chrY	22340354	.	A	T	181.52	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43733	chrY	22340376	.	C	T	147.02	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
43734	chrY	22341012	.	G	T	267.63	PASS	AC=5;AF=0.074;AN=68;DP=346;FS=0.0
43735	chrY	22341114	.	C	A	228.65	PASS	AC=8;AF=1.00;AN=8;DP=23;FS=0.000;
43736	chrY	22344364	.	A	G	67.84	PASS	AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
43737	chrY	22344365	.	A	T	67.84	PASS	AC=2;AF=1.00;AN=2;DP=2;FS=0.000;M
43738	chrY	22344918	.	A	T	418.74	PASS	AC=10;AF=0.833;AN=12;DP=29;FS=0.0
43739	chrY	22345015	.	G	T	450.17	PASS	AC=6;AF=0.125;AN=48;DP=120;FS=0.0
43740	chrY	22345105	.	C	G	342.85	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43741	chrY	22345364	.	T	G	245.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43742	chrY	22345480	.	G	T	981.54	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
43743	chrY	22345494	.	G	C	987.56	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
43744	chrY	22345513	.	G	T	629.13	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
43745	chrY	22345517	.	T	A	576.21	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
43746	chrY	22345687	.	C	G	3993.94	PASS	AC=29;AF=0.806;AN=36;BaseQRankSum=
43747	chrY	22345688	.	C	T	4171.95	PASS	AC=29;AF=0.853;AN=34;BaseQRankSum=
43748	chrY	22345695	.	T	C	82.13	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
43749	chrY	22345699	.	A	T	89.06	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
43750	chrY	22345700	.	C	T	32.12	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
43751	chrY	22345703	.	C	T	92.28	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
43752	chrY	22345711	.	G	A	52.87	PASS	AC=2;AF=0.056;AN=36;DP=126;FS=0.0
43753	chrY	22345714	.	G	T	33.67	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
43754	chrY	22345735	.	T	C	48.98	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
43755	chrY	22345737	.	C	G	375.03	PASS	AC=8;AF=0.286;AN=28;BaseQRankSum=
43756	chrY	22345738	.	A	T	376.68	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
43757	chrY	22345782	.	C	T	478.52	PASS	AC=11;AF=0.917;AN=12;BaseQRankSum=
43758	chrY	22345932	.	C	A	971.90	PASS	AC=6;AF=0.091;AN=66;DP=366;FS=0.0
43759	chrY	22345984	.	T	C	9805.12	PASS	AC=54;AF=1.00;AN=54;DP=223;FS=0.0
43760	chrY	22345985	.	T	A	9940.12	PASS	AC=54;AF=1.00;AN=54;DP=223;FS=0.0
43761	chrY	22345997	.	C	G	10413.90	PASS	AC=46;AF=1.00;AN=46;DP=23
43762	chrY	22346014	.	A	C	10516.18	PASS	AC=58;AF=1.00;AN=58;DP=26
43763	chrY	22346168	.	A	T	16112.94	my_snp_filter	AC=62;AF=1.00;AN=
43764	chrY	22346292	.	G	A	2599.30	PASS	AC=28;AF=0.933;AN=30;BaseQRankSum=
43765	chrY	22346360	.	C	G	7993.12	PASS	AC=38;AF=1.00;AN=38;BaseQRankSum=
43766	chrY	22346361	.	A	T	8018.11	PASS	AC=38;AF=1.00;AN=38;BaseQRankSum=
43767	chrY	22346388	.	G	A	1351.05	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
43768	chrY	22346400	.	T	A	2146.78	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
43769	chrY	22346651	.	C	A	168.92	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
43770	chrY	22346809	.	A	T	113.51	PASS	AC=4;AF=1.00;AN=4;DP=6;FS=0.000;M
43771	chrY	22346810	.	C	A	113.51	PASS	AC=4;AF=1.00;AN=4;DP=6;FS=0.000;M
43772	chrY	22348539	.	C	A	74.86	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
43773	chrY	22352446	.	C	A	153.61	my_snp_filter	AC=2;AF=0.500;AN=4;DP=9;F
43774	chrY	22352458	.	G	T	157.13	my_snp_filter	AC=2;AF=1.00;AN=2;DP=8;FS
43775	chrY	22352465	.	A	G	151.51	my_snp_filter	AC=2;AF=0.333;AN=6;DP=9;F
43776	chrY	22352500	.	T	C	153.68	my_snp_filter	AC=2;AF=0.500;AN=4;DP=8;F

43777	chrY	22352514	.	G	C	63.08	PASS	AC=2;AF=0.333;AN=6;DP=5;FS=0.000;
43778	chrY	22353089	.	C	G	115.39	my_snp_filter	AC=3;AF=0.083;AN=36;BaseQ
43779	chrY	22353151	.	A	G	855.85	my_snp_filter	AC=13;AF=0.250;AN=52;Base
43780	chrY	22353209	.	A	T	4068.05	PASS	AC=23;AF=0.359;AN=64;BaseQRankSum
43781	chrY	22353237	.	C	G	4077.88	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum
43782	chrY	22353327	.	G	A	78.97	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
43783	chrY	22353336	.	T	C	219.08	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
43784	chrY	22353371	.	G	C,*	939.17	my_snp_filter	AC=12,2;AF=0.857,0.143;AN
43785	chrY	22353372	.	A	T,*	939.17	my_snp_filter	AC=12,2;AF=0.857,0.143;AN
43786	chrY	22357298	.	T	G	63.11	PASS	AC=2;AF=0.333;AN=6;DP=13;FS=0.000
43787	chrY	22357303	.	G	C	59.42	PASS	AC=2;AF=0.143;AN=14;DP=14;FS=0.00
43788	chrY	22357628	.	A	T	173.02	my_snp_filter	AC=3;AF=0.500;AN=6;BaseQR
43789	chrY	22357638	.	C	T	136.31	my_snp_filter	AC=2;AF=0.250;AN=8;DP=16;
43790	chrY	22357658	.	G	T	108.59	my_snp_filter	AC=2;AF=0.333;AN=6;DP=11;
43791	chrY	22358590	.	A	G	204.74	PASS	AC=6;AF=0.750;AN=8;DP=10;FS=0.000
43792	chrY	22358634	.	G	C	310.49	PASS	AC=6;AF=0.750;AN=8;DP=9;FS=0.000;
43793	chrY	22358648	.	T	G	281.04	PASS	AC=6;AF=0.600;AN=10;DP=9;FS=0.000
43794	chrY	22358657	.	T	G	193.76	PASS	AC=4;AF=0.500;AN=8;DP=7;FS=0.000;
43795	chrY	22359341	.	C	G	389.61	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
43796	chrY	22359343	.	G	A	439.11	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
43797	chrY	22359384	.	G	C	395.89	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
43798	chrY	22359389	.	T	C	131.08	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
43799	chrY	22359391	.	C	G	441.83	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
43800	chrY	22359418	.	G	T	410.39	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
43801	chrY	22359440	.	C	G	254.82	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
43802	chrY	22359509	.	G	C	512.89	my_snp_filter	AC=7;AF=0.125;AN=56;BaseQ
43803	chrY	22359544	.	G	A	535.55	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
43804	chrY	22359548	.	G	T	238.57	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
43805	chrY	22359560	.	G	C	148.08	my_snp_filter	AC=10;AF=0.152;AN=66;Base
43806	chrY	22359563	.	C	T	165.79	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
43807	chrY	22359579	.	C	G	1226.16	my_snp_filter	AC=11;AF=0.162;AN=68;Base
43808	chrY	22359583	.	A	C	495.28	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
43809	chrY	22359587	.	C	T	1285.93	my_snp_filter	AC=10;AF=0.152;AN=66;Base
43810	chrY	22359601	.	T	C	1182.96	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
43811	chrY	22359602	.	T	C	406.90	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
43812	chrY	22359612	.	G	C,A	6368.25	my_snp_filter	AC=35,12;AF=0.625,0.214;A
43813	chrY	22359615	.	T	G	2209.36	my_snp_filter	AC=14;AF=0.241;AN=58;Base
43814	chrY	22359618	.	G	A	404.19	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
43815	chrY	22359634	.	T	G	857.19	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQ
43816	chrY	22359645	.	T	A	163.99	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
43817	chrY	22359646	.	G	T,A	782.02	my_snp_filter	AC=2,5;AF=0.032,0.081;AN=
43818	chrY	22359824	.	C	T	246.65	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
43819	chrY	22359858	.	A	C	468.32	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
43820	chrY	22359878	.	C	G	639.94	my_snp_filter	AC=4;AF=0.333;AN=12;BaseQ
43821	chrY	22359881	.	T	A	545.47	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
43822	chrY	22359993	.	G	T	220.77	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
43823	chrY	22360004	.	T	A	163.21	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
43824	chrY	22360009	.	G	T	164.29	my_snp_filter	AC=2;AF=0.125;AN=16;BaseQ
43825	chrY	22360059	.	G	T	69.09	my_snp_filter	AC=2;AF=0.500;AN=4;DP=7;F
43826	chrY	22360086	.	C	A	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=5;FS
43827	chrY	22360092	.	C	T	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=5;FS
43828	chrY	22360101	.	T	A	62.78	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
43829	chrY	22360266	.	C	T	58.97	PASS	AC=2;AF=0.333;AN=6;DP=21;FS=0.000
43830	chrY	22360268	.	A	T	56.45	PASS	AC=2;AF=0.167;AN=12;DP=20;FS=0.00
43831	chrY	22360966	.	A	C	146.51	PASS	AC=4;AF=0.222;AN=18;DP=95;FS=0.00
43832	chrY	22360968	.	T	A	133.69	PASS	AC=4;AF=0.125;AN=32;DP=92;FS=0.00
43833	chrY	22361484	.	G	A	47.26	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
43834	chrY	22361486	.	A	C	58.28	my_snp_filter	AC=2;AF=0.111;AN=18;DP=42
43835	chrY	22361509	.	T	A	57.79	my_snp_filter	AC=2;AF=0.125;AN=16;DP=47
43836	chrY	22361512	.	G	A	186.68	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
43837	chrY	22361525	.	T	G	33.04	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
43838	chrY	22361583	.	T	G	170.96	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
43839	chrY	22361594	.	G	A	208.14	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
43840	chrY	22361610	.	T	C	194.69	my_snp_filter	AC=2;AF=0.250;AN=8;BaseQR
43841	chrY	22361621	.	G	T	163.05	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
43842	chrY	22361859	.	G	A	34.72	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43843	chrY	22361868	.	C	G	98.77	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
43844	chrY	22361878	.	C	G	31.33	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43845	chrY	22361882	.	T	A	33.05	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43846	chrY	22361930	.	G	T	325.02	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
43847	chrY	22361933	.	G	A	66.40	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
43848	chrY	22362001	.	G	T	260.53	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
43849	chrY	22362012	.	G	C	288.97	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
43850	chrY	22362058	.	G	T	717.49	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
43851	chrY	22362154	.	T	C	9674.91	PASS	AC=54;AF=0.844;AN=64;DP=402;FS=0.
43852	chrY	22362284	.	T	A	151.62	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=

43853	chrY	22362299	.	A	T	154.34	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43854	chrY	22362300	.	G	A	154.62	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43855	chrY	22362305	.	C	G	156.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43856	chrY	22362322	.	T	A	36.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43857	chrY	22362323	.	T	C	32.59	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
43858	chrY	22362482	.	T	C	1205.14	my_snp_filter	AC=16;AF=1.00;AN=16;DP=57
43859	chrY	22364425	.	T	G	354.81	my_snp_filter	AC=6;AF=0.500;AN=12;BaseQ
43860	chrY	22364507	.	T	A,G	371.92	my_snp_filter	AC=5,2;AF=0.278,0.111;AN=
43861	chrY	22364518	.	T	A	47.07	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
43862	chrY	22364601	.	A	G	104.23	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
43863	chrY	22364657	.	T	C	59.49	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
43864	chrY	22364685	.	C	G	83.48	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
43865	chrY	22364714	.	C	G	109.03	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
43866	chrY	22364758	.	G	A	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=8;FS
43867	chrY	22364761	.	C	T	112.38	my_snp_filter	AC=2;AF=1.00;AN=2;DP=3;FS
43868	chrY	22366175	.	T	G	34.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=123;
43869	chrY	22366219	.	C	G	530.07	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
43870	chrY	22366262	.	G	T	448.61	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
43871	chrY	22366282	.	A	C	267.19	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
43872	chrY	22366300	.	T	G	259.05	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
43873	chrY	22366307	.	G	C	183.94	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
43874	chrY	22366313	.	G	T	4324.81	PASS	AC=17;AF=0.354;AN=48;BaseQRankSum=
43875	chrY	22366339	.	C	T	3137.94	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
43876	chrY	22366341	.	T	G	3050.02	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
43877	chrY	22366344	.	C	G	117.27	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
43878	chrY	22366380	.	A	G	296.03	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
43879	chrY	22366407	.	T	A	383.38	PASS	AC=5;AF=0.125;AN=40;BaseQRankSum=
43880	chrY	22366410	.	T	G,C	386.96	PASS	AC=3,2;AF=0.075,0.050;AN=40;BaseQ
43881	chrY	22366412	.	C	A	147.01	PASS	AC=3;AF=0.071;AN=42;BaseQRankSum=
43882	chrY	22366421	.	G	A	54.41	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
43883	chrY	22366424	.	A	G	33.91	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
43884	chrY	22366432	.	G	T	34.48	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
43885	chrY	22366435	.	C	G	49.69	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
43886	chrY	22366443	.	C	T	104	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
43887	chrY	22366582	.	T	C	45.86	my_snp_filter	AC=1;AF=0.500;AN=2;BaseQR
43888	chrY	22366601	.	C	G	45.86	my_snp_filter	AC=1;AF=0.500;AN=2;BaseQR
43889	chrY	22366844	.	G	A	231.30	PASS	AC=2;AF=0.143;AN=14;DP=24;FS=0.00
43890	chrY	22366859	.	G	C	54	PASS	AC=2;AF=0.111;AN=18;DP=28;FS=0.00
43891	chrY	22366862	.	C	G	79.66	PASS	AC=2;AF=0.111;AN=18;DP=29;FS=0.00
43892	chrY	22366863	.	G	T	223.78	my_snp_filter	AC=5;AF=0.417;AN=12;BaseQ
43893	chrY	22366887	.	G	A	51.42	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
43894	chrY	22366891	.	C	T	50.25	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
43895	chrY	22366904	.	C	A	120.52	PASS	AC=2;AF=0.100;AN=20;DP=29;FS=0.00
43896	chrY	22366920	.	T	A	99.67	PASS	AC=2;AF=0.125;AN=16;DP=19;FS=0.00
43897	chrY	22366930	.	A	G	60.21	PASS	AC=2;AF=0.125;AN=16;DP=15;FS=0.00
43898	chrY	22367094	.	A	C	59.21	my_snp_filter	AC=2;AF=0.200;AN=10;DP=12
43899	chrY	22367101	.	G	A	58.55	my_snp_filter	AC=2;AF=0.167;AN=12;DP=13
43900	chrY	22367119	.	A	G	203.03	my_snp_filter	AC=6;AF=1.00;AN=6;DP=14;F
43901	chrY	22367134	.	T	A	59.49	my_snp_filter	AC=2;AF=0.167;AN=12;DP=14
43902	chrY	22367152	.	T	C	62.98	my_snp_filter	AC=2;AF=0.250;AN=8;DP=10;
43903	chrY	22367158	.	G	C	62.99	my_snp_filter	AC=2;AF=0.250;AN=8;DP=10;
43904	chrY	22367457	.	T	C	64.18	my_snp_filter	AC=2;AF=0.500;AN=4;BaseQR
43905	chrY	22367532	.	A	G,C	281.49	my_snp_filter	AC=2,1;AF=0.111,0.056;AN=
43906	chrY	22367550	.	T	G	1003.90	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
43907	chrY	22367604	.	T	C	312.61	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
43908	chrY	22367619	.	G	A	67.76	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
43909	chrY	22367632	.	T	G	458.08	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
43910	chrY	22367643	.	T	A	252.82	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
43911	chrY	22367712	.	G	T	140.60	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
43912	chrY	22367714	.	C	T	140.52	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
43913	chrY	22367716	.	G	T	147.70	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
43914	chrY	22367719	.	C	T	100.28	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
43915	chrY	22367726	.	A	G	66.99	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
43916	chrY	22367768	.	C	T	1029.18	my_snp_filter	AC=14;AF=0.875;AN=16;DP=7
43917	chrY	22367862	.	G	C	266.50	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
43918	chrY	22367881	.	C	G	330.63	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
43919	chrY	22367910	.	T	A	229.50	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
43920	chrY	22367917	.	T	C	193.69	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
43921	chrY	22367981	.	G	A	331.26	my_snp_filter	AC=3;AF=0.500;AN=6;BaseQR
43922	chrY	22419780	.	T	G	994.60	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
43923	chrY	22420165	.	A	G	269.93	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
43924	chrY	22420187	.	G	C	696.73	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
43925	chrY	22420333	.	A	T	53.52	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
43926	chrY	22420386	.	A	T	318.63	my_snp_filter	AC=6;AF=0.750;AN=8;DP=13;
43927	chrY	22420399	.	T	A	241.65	my_snp_filter	AC=4;AF=0.667;AN=6;DP=9;F
43928	chrY	22422138	.	G	A	122.97	PASS	AC=4;AF=0.080;AN=50;DP=81;FS=0.00

43929	chrY	22422202	.	T	C	6657.10	PASS	AC=50;AF=1.00;AN=50;DP=225;FS=0.0
43930	chrY	22422218	.	G	T	1274.57	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
43931	chrY	22422220	.	C	T	116.14	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
43932	chrY	22422271	.	A	C	160.19	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
43933	chrY	22422273	.	A	T	160.74	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
43934	chrY	22422281	.	C	A	157	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
43935	chrY	22422365	.	G	A	73.75	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
43936	chrY	22422391	.	G	A	33.15	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
43937	chrY	22422444	.	T	G	41.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
43938	chrY	22422555	.	A	C	203.18	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
43939	chrY	22422556	.	C	A	57.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
43940	chrY	22422589	.	T	C	43.77	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
43941	chrY	22422638	.	G	C	76.98	PASS	AC=2;AF=0.032;AN=62;DP=322;FS=0.0
43942	chrY	22422771	.	G	A	35.97	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
43943	chrY	22422796	.	C	A	1333.29	my_snp_filter	AC=18;AF=0.818;AN=22;Base
43944	chrY	22422799	.	G	T	1304.98	my_snp_filter	AC=18;AF=0.692;AN=26;Base
43945	chrY	22422811	.	C	G	171.57	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
43946	chrY	22422828	.	T	C	56.74	my_snp_filter	AC=2;AF=0.091;AN=22;DP=11
43947	chrY	22422829	.	T	A	61.58	my_snp_filter	AC=2;AF=0.091;AN=22;DP=11
43948	chrY	22422834	.	A	G	222.26	my_snp_filter	AC=4;AF=0.250;AN=16;BaseQ
43949	chrY	22423081	.	A	T	240.99	my_snp_filter	AC=6;AF=0.214;AN=28;DP=19
43950	chrY	22423190	.	G	A	1190.24	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
43951	chrY	22423208	.	T	A	1350.63	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
43952	chrY	22423215	.	G	A	1363.74	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
43953	chrY	22423248	.	T	A	941.93	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
43954	chrY	22423344	.	A	G	7923.31	PASS	AC=32;AF=0.552;AN=58;BaseQRankSum=
43955	chrY	22423351	.	G	C	777.60	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
43956	chrY	22423377	.	T	G	62.79	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
43957	chrY	22423561	.	C	G	70.42	my_snp_filter	AC=4;AF=0.087;AN=46;BaseQ
43958	chrY	22423729	.	T	C	37.06	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
43959	chrY	22423833	.	A	T	795.27	my_snp_filter	AC=12;AF=1.00;AN=12;DP=40
43960	chrY	22424345	.	T	A	78.25	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
43961	chrY	22424369	.	T	A	556.11	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
43962	chrY	22424469	.	G	A	264.23	my_snp_filter	AC=6;AF=0.125;AN=48;DP=18
43963	chrY	22424553	.	G	A	171.87	my_snp_filter	AC=6;AF=0.333;AN=18;DP=97
43964	chrY	22424838	.	G	C	2432.36	my_snp_filter	AC=14;AF=0.206;AN=68;Base
43965	chrY	22424861	.	C	T	203.43	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
43966	chrY	22424865	.	G	A	2437.87	my_snp_filter	AC=16;AF=0.242;AN=66;Base
43967	chrY	22424877	.	T	C	1105.05	my_snp_filter	AC=12;AF=0.176;AN=68;Base
43968	chrY	22424895	.	G	C	288.49	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
43969	chrY	22424917	.	C	G	640.40	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
43970	chrY	22424925	.	T	A	1124.32	my_snp_filter	AC=11;AF=0.183;AN=60;Base
43971	chrY	22425174	.	A	G	517.81	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
43972	chrY	22425290	.	C	T	2142.17	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
43973	chrY	22425343	.	T	C	813.17	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
43974	chrY	22425646	.	A	C	1065.93	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
43975	chrY	22425670	.	C	A	1695.74	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
43976	chrY	22425714	.	T	A	2816.02	my_snp_filter	AC=26;AF=0.481;AN=54;Base
43977	chrY	22425832	.	C	T	2307.32	PASS	AC=22;AF=0.423;AN=52;BaseQRankSum=
43978	chrY	22425924	.	T	G	3008.77	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum=
43979	chrY	22426104	.	C	T	153.47	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
43980	chrY	22426195	.	G	C	590.10	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
43981	chrY	22426261	.	C	T	253.74	my_snp_filter	AC=4;AF=0.087;AN=46;BaseQ
43982	chrY	22426375	.	G	C	227.29	my_snp_filter	AC=6;AF=0.176;AN=34;DP=20
43983	chrY	22426416	.	T	G	132.99	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
43984	chrY	22426663	.	A	T	108.70	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
43985	chrY	22426782	.	C	G	693.93	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
43986	chrY	22426937	.	A	T	90.78	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
43987	chrY	22427009	.	C	T	97.98	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
43988	chrY	22427033	.	G	A	129.18	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
43989	chrY	22427067	.	A	G	501.46	PASS	AC=10;AF=0.208;AN=48;BaseQRankSum=
43990	chrY	22427448	.	G	A	1096.37	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
43991	chrY	22427502	.	A	G	4055.96	my_snp_filter	AC=24;AF=0.400;AN=60;Base
43992	chrY	22427587	.	C	T	221.53	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
43993	chrY	22427660	.	C	G	46.26	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
43994	chrY	22427743	.	C	G	149.17	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
43995	chrY	22427828	.	A	T	10752.05	my_snp_filter	AC=56;AF=1.00;AN=
43996	chrY	22427831	.	C	G	1427.42	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
43997	chrY	22427852	.	G	A	1591	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
43998	chrY	22427876	.	G	C	359.14	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
43999	chrY	22428007	.	T	G	400.05	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44000	chrY	22428079	.	G	C	3768.21	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
44001	chrY	22428095	.	C	A	453.29	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44002	chrY	22428113	.	G	A	672.18	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44003	chrY	22428138	.	C	G	191.38	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44004	chrY	22428212	.	A	C	2623.94	my_snp_filter	AC=10;AF=0.172;AN=58;Base

44005	chrY	22428232	.	C	T	2541.41	my_snp_filter	AC=9;AF=0.161;AN=56;BaseQ
44006	chrY	22428252	.	C	G	611.86	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44007	chrY	22428312	.	C	T	321.57	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
44008	chrY	22428338	.	G	C	385.58	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
44009	chrY	22428345	.	C	A	332.03	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
44010	chrY	22428430	.	A	G	1920.06	my_snp_filter	AC=22;AF=0.550;AN=40;BaseQ
44011	chrY	22428451	.	A	T	119.52	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
44012	chrY	22428505	.	G	C	1295.09	my_snp_filter	AC=6;AF=0.103;AN=58;DP=29
44013	chrY	22428593	.	G	C	790.03	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
44014	chrY	22428651	.	G	A	892.31	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
44015	chrY	22428995	.	C	T	522.06	my_snp_filter	AC=6;AF=1.00;AN=6;DP=23;F
44016	chrY	22429057	.	C	G	753.01	my_snp_filter	AC=12;AF=0.857;AN=14;DP=3
44017	chrY	22429306	.	A	T	2013.97	PASS	AC=18;AF=1.00;AN=18;DP=84;FS=0.00
44018	chrY	22429701	.	C	T	113.93	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
44019	chrY	22429742	.	A	G	81.32	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44020	chrY	22429745	.	A	C	81.18	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44021	chrY	22429774	.	C	A	45.24	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44022	chrY	22430020	.	A	C	48.52	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
44023	chrY	22430024	.	C	A	48.23	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
44024	chrY	22430060	.	G	T	42.32	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
44025	chrY	22430084	.	G	C	36.96	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
44026	chrY	22430173	.	A	T	552.94	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
44027	chrY	22430245	.	C	A	270.08	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
44028	chrY	22430269	.	T	G	87.24	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44029	chrY	22430406	.	G	A	314.25	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44030	chrY	22430410	.	G	C	376.80	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44031	chrY	22430421	.	C	A	400.52	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44032	chrY	22430427	.	G	T	310.91	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44033	chrY	22430429	.	G	T	375.37	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44034	chrY	22430456	.	A	G	353.17	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44035	chrY	22430489	.	G	T	70.37	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44036	chrY	22430522	.	A	C	574.49	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44037	chrY	22430523	.	T	A	570.81	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44038	chrY	22430528	.	G	A	529.23	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44039	chrY	22430569	.	G	C,T	365.90	PASS	AC=1,1;AF=0.016,0.016;AN=64;BaseQ
44040	chrY	22431078	.	G	T	532.59	my_snp_filter	AC=6;AF=0.103;AN=58;DP=17
44041	chrY	22431397	.	T	C	136.24	my_snp_filter	AC=4;AF=0.400;AN=10;DP=16
44042	chrY	22431984	.	A	T	63.91	PASS	AC=4;AF=0.333;AN=12;DP=14;FS=0.00
44043	chrY	22432103	.	A	G	141.99	PASS	AC=6;AF=0.300;AN=20;DP=48;FS=0.00
44044	chrY	22432138	.	G	T	173.82	PASS	AC=4;AF=0.182;AN=22;DP=50;FS=0.00
44045	chrY	22432170	.	T	C	77.51	my_snp_filter	AC=4;AF=0.182;AN=22;DP=74
44046	chrY	22432269	.	G	T	481.20	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
44047	chrY	22432368	.	G	C	12673.02	PASS	AC=62;AF=1.00;AN=62;BaseQ
44048	chrY	22432454	.	A	T	755.78	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44049	chrY	22432609	.	G	C	2838.99	PASS	AC=21;AF=0.375;AN=56;BaseQRankSum=
44050	chrY	22432891	.	G	A	55.63	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
44051	chrY	22433022	.	T	G	94.74	PASS	AC=2;AF=0.091;AN=22;DP=72;FS=0.00
44052	chrY	22433109	.	C	G	98.50	PASS	AC=2;AF=0.167;AN=12;DP=30;FS=0.00
44053	chrY	22433128	.	C	T	99.22	PASS	AC=2;AF=0.167;AN=12;DP=25;FS=0.00
44054	chrY	22433275	.	T	C	175.07	my_snp_filter	AC=4;AF=1.00;AN=4;DP=16;F
44055	chrY	22433447	.	C	T	408.44	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
44056	chrY	22433464	.	G	C	439.58	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
44057	chrY	22433472	.	T	C	441.82	my_snp_filter	AC=5;AF=0.156;AN=32;BaseQ
44058	chrY	22433507	.	C	G	517.46	my_snp_filter	AC=5;AF=0.096;AN=52;BaseQ
44059	chrY	22433534	.	A	C	718.77	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
44060	chrY	22433542	.	A	T	684.74	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
44061	chrY	22433602	.	C	A	213.09	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
44062	chrY	22433654	.	T	C	3418.85	my_snp_filter	AC=20;AF=0.323;AN=62;BaseQ
44063	chrY	22433678	.	C	T	3617.61	my_snp_filter	AC=18;AF=0.281;AN=64;BaseQ
44064	chrY	22433693	.	G	T	3681.43	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
44065	chrY	22433699	.	T	A	3873.49	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
44066	chrY	22433708	.	C	A	3882.17	my_snp_filter	AC=17;AF=0.266;AN=64;BaseQ
44067	chrY	22433711	.	G	C	231.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44068	chrY	22433723	.	T	C	940.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44069	chrY	22433724	.	G	T	943.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44070	chrY	22433740	.	C	A	2765.82	my_snp_filter	AC=13;AF=0.203;AN=64;BaseQ
44071	chrY	22433770	.	T	G	2032.61	my_snp_filter	AC=8;AF=0.138;AN=58;BaseQ
44072	chrY	22433792	.	A	T	1322.01	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
44073	chrY	22433804	.	C	G	947.84	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
44074	chrY	22433882	.	A	T	43.88	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
44075	chrY	22433893	.	C	G	83.89	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
44076	chrY	22433906	.	C	T	108.05	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
44077	chrY	22433926	.	A	T	113.93	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
44078	chrY	22433998	.	G	T	632.17	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
44079	chrY	22434007	.	C	G	251.45	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
44080	chrY	22434009	.	T	C	269.44	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ

44081	chrY	22434026	.	G	A	40.20	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
44082	chrY	22434093	.	G	C	176.99	my_snp_filter	AC=6;AF=0.333;AN=18;DP=36
44083	chrY	22435394	.	G	A	911.47	PASS	AC=17;AF=0.944;AN=18;BaseQRankSum
44084	chrY	22435481	.	A	C	54.55	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
44085	chrY	22435502	.	G	C	54.67	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44086	chrY	22435569	.	C	G	453.88	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum
44087	chrY	22435609	.	A	G	124.59	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
44088	chrY	22435617	.	A	G	70.69	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44089	chrY	22435621	.	T	C	71.14	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
44090	chrY	22435646	.	C	T	1118.45	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
44091	chrY	22435694	.	G	A	1678.42	PASS	AC=17;AF=0.472;AN=36;BaseQRankSum
44092	chrY	22435711	.	G	T	1278.25	PASS	AC=18;AF=0.750;AN=24;BaseQRankSum
44093	chrY	22435729	.	T	C	521.70	PASS	AC=8;AF=0.667;AN=12;DP=27;FS=0.00
44094	chrY	22435744	.	T	A	292.28	PASS	AC=4;AF=1.00;AN=4;DP=7;FS=0.000;M
44095	chrY	22435746	.	A	C	292.28	PASS	AC=4;AF=1.00;AN=4;DP=7;FS=0.000;M
44096	chrY	22435870	.	C	T	113.51	my_snp_filter	AC=4;AF=1.00;AN=4;DP=30;F
44097	chrY	22435876	.	A	T	191.03	my_snp_filter	AC=6;AF=1.00;AN=6;DP=37;F
44098	chrY	22435997	.	A	T	34.56	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
44099	chrY	22436028	.	G	A	182.06	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
44100	chrY	22436085	.	T	G	6253.19	my_snp_filter	AC=40;AF=1.00;AN=40;DP=20
44101	chrY	22436108	.	G	C	1357.44	my_snp_filter	AC=16;AF=0.333;AN=48;BaseQ
44102	chrY	22436214	.	A	C	1232.89	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
44103	chrY	22436217	.	T	G	15463.99	my_snp_filter	AC=58;AF=1.00;AN=
44104	chrY	22436230	.	T	C	17461.94	my_snp_filter	AC=58;AF=1.00;AN=
44105	chrY	22436233	.	G	A	15863.68	my_snp_filter	AC=54;AF=0.931;AN=
44106	chrY	22436247	.	T	A	1272.70	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
44107	chrY	22436253	.	A	G	1230.65	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
44108	chrY	22436300	.	A	C	49917.87	PASS	AC=64;AF=1.00;AN=64;DP=11
44109	chrY	22436303	.	C	A	141.83	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
44110	chrY	22436354	.	T	G	1447.82	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
44111	chrY	22436396	.	A	C	16245.96	PASS	AC=64;AF=1.00;AN=64;BaseQ
44112	chrY	22436428	.	C	T	92.38	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
44113	chrY	22436519	.	C	A	1499.28	PASS	AC=14;AF=0.333;AN=42;BaseQRankSum
44114	chrY	22436585	.	T	G	73.90	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44115	chrY	22436780	.	G	T	100.59	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
44116	chrY	22436793	.	T	A	101.30	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
44117	chrY	22436822	.	T	C	377.87	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
44118	chrY	22436841	.	G	T	311.27	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
44119	chrY	22436865	.	G	T	213.53	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
44120	chrY	22436870	.	A	G	203.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
44121	chrY	22436874	.	C	A	172.09	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
44122	chrY	22436880	.	G	T	340.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
44123	chrY	22436883	.	G	C	45.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44124	chrY	22436895	.	A	C	35.81	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
44125	chrY	22436896	.	T	C	487.07	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
44126	chrY	22436898	.	T	G	35.92	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
44127	chrY	22436902	.	G	C	113.27	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
44128	chrY	22436903	.	G	C	63.51	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
44129	chrY	22436915	.	G	C	95.25	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44130	chrY	22436946	.	C	T	49.54	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
44131	chrY	22436960	.	G	T	2701.82	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum
44132	chrY	22436961	.	C	T	371.74	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
44133	chrY	22436972	.	G	T	40.94	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
44134	chrY	22437196	.	T	C	81.89	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
44135	chrY	22437476	.	T	C,*	1227.06	PASS	AC=5,2;AF=0.093,0.037;AN=54;BaseQ
44136	chrY	22437482	.	G,*	C,*	1294.75	PASS	AC=5,2;AF=0.096,0.038;AN=52;BaseQ
44137	chrY	22437562	.	A	C	98.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum
44138	chrY	22437574	.	T	C	101.45	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum
44139	chrY	22437651	.	T	A	1448.12	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum
44140	chrY	22437652	.	T	A	5407.04	PASS	AC=21;AF=0.362;AN=58;BaseQRankSum
44141	chrY	22437711	.	T	C	3114.44	PASS	AC=22;AF=0.458;AN=48;BaseQRankSum
44142	chrY	22437743	.	A	G	1570.81	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum
44143	chrY	22437744	.	T	G	15410.26	PASS	AC=47;AF=0.940;AN=50;DP=5
44144	chrY	22437776	.	A	T	605.59	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
44145	chrY	22437841	.	C	T	4521.21	PASS	AC=18;AF=0.375;AN=48;BaseQRankSum
44146	chrY	22437881	.	G	T	195.32	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
44147	chrY	22437888	.	A	C	4473.07	PASS	AC=17;AF=0.340;AN=50;BaseQRankSum
44148	chrY	22437960	.	T	A	354.73	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum
44149	chrY	22437969	.	G	T	1716.76	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum
44150	chrY	22437992	.	T	C	1710.81	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum
44151	chrY	22437995	.	A	T	339.27	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
44152	chrY	22437997	.	C	G	314.96	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum
44153	chrY	22438014	.	C	T	1342.27	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum
44154	chrY	22438024	.	A	T	1380.88	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum
44155	chrY	22438025	.	G	C	161.29	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
44156	chrY	22438026	.	T	G	12184.74	PASS	AC=49;AF=0.907;AN=54;BaseQ

44157	chrY	22438077	.	G	C	1560.64	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
44158	chrY	22438093	.	G	T	748.56	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44159	chrY	22438114	.	G	A	679.99	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44160	chrY	22438121	.	A	T	2219.73	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
44161	chrY	22438132	.	T	C	579.36	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44162	chrY	22438152	.	G	C	1683.82	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
44163	chrY	22438167	.	G	T,*	7573.21	PASS	AC=32,1;AF=0.615,0.019;AN=52;BaseQ
44164	chrY	22438195	.	T	C	755.63	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
44165	chrY	22438206	.	G	A	179.02	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44166	chrY	22438210	.	A	T	418.43	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
44167	chrY	22438241	.	A	T	201.98	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44168	chrY	22438302	.	A	T	50.60	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44169	chrY	22438337	.	A	G	57.53	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44170	chrY	22438367	.	G	T	61.20	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44171	chrY	22438425	.	C	A	81.44	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44172	chrY	22438431	.	G	T	917.28	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
44173	chrY	22438462	.	G	T	3766.84	my_snp_filter	AC=26;AF=0.448;AN=58;BaseQ
44174	chrY	22438483	.	G	C	52.24	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44175	chrY	22438536	.	A	G	245.35	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44176	chrY	22438569	.	C	A	5322.87	PASS	AC=23;AF=0.397;AN=58;BaseQRankSum=
44177	chrY	22438574	.	T	C	5067.81	PASS	AC=23;AF=0.397;AN=58;BaseQRankSum=
44178	chrY	22438598	.	C	T	43.72	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
44179	chrY	22438600	.	C	T	37.41	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44180	chrY	22438672	.	C	T	156.38	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
44181	chrY	22438828	.	T	A	380.16	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44182	chrY	22438839	.	C	A	120.20	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
44183	chrY	22438895	.	A	G	89.22	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
44184	chrY	22438905	.	G	T	101.03	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44185	chrY	22438923	.	T	C	33.68	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
44186	chrY	22438952	.	C	A	4993.89	PASS	AC=34;AF=0.586;AN=58;BaseQRankSum=
44187	chrY	22439097	.	T	C,*	1222.60	PASS	AC=3,2;AF=0.058,0.038;AN=52;BaseQ
44188	chrY	22439118	.	C	A,*	1151.08	PASS	AC=2,2;AF=0.048,0.048;AN=42;BaseQ
44189	chrY	22439146	.	G	T	194.48	my_snp_filter	AC=4;AF=0.182;AN=22;DP=19
44190	chrY	22439283	.	A	G	47.71	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
44191	chrY	22439297	.	A	C	659.68	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
44192	chrY	22439313	.	T	C	1029.03	my_snp_filter	AC=18;AF=0.429;AN=42;BaseQ
44193	chrY	22439326	.	G	A	1210.17	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
44194	chrY	22439375	.	G	A	952.77	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
44195	chrY	22439435	.	A	T	846.19	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44196	chrY	22439436	.	G	A	137.61	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
44197	chrY	22439445	.	T	C	133.30	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
44198	chrY	22439456	.	T	C	9886.80	my_snp_filter	AC=46;AF=0.821;AN=56;BaseQ
44199	chrY	22439458	.	A	T	90.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44200	chrY	22439488	.	C	T	11280.03	my_snp_filter	AC=44;AF=0.815;AN=
44201	chrY	22439500	.	A	G	9640.06	my_snp_filter	AC=42;AF=0.808;AN=52;BaseQ
44202	chrY	22439504	.	T	C	194.58	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
44203	chrY	22439646	.	G	A	81.92	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
44204	chrY	22439703	.	T	G	1885.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
44205	chrY	22439726	.	G	C	292.74	my_snp_filter	AC=6;AF=0.300;AN=20;BaseQ
44206	chrY	22439835	.	T	G	232.68	my_snp_filter	AC=5;AF=0.250;AN=20;BaseQ
44207	chrY	22439848	.	T	C	181.05	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
44208	chrY	22439851	.	G	A	176.98	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
44209	chrY	22439918	.	A	C	172.58	my_snp_filter	AC=4;AF=0.182;AN=22;DP=24
44210	chrY	22439953	.	G	T	465.50	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
44211	chrY	22439962	.	C	G	78.41	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
44212	chrY	22439997	.	T	C	2377.34	PASS	AC=23;AF=0.397;AN=58;BaseQRankSum=
44213	chrY	22440021	.	G	T	49.40	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
44214	chrY	22440068	.	C	T	70.08	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44215	chrY	22440073	.	G	T	47.58	PASS	AC=2;AF=0.034;AN=58;DP=382;FS=0.0
44216	chrY	22440077	.	G	A	359.56	my_snp_filter	AC=5;AF=0.096;AN=52;BaseQ
44217	chrY	22440091	.	C	T	49.22	PASS	AC=2;AF=0.040;AN=50;DP=296;FS=0.0
44218	chrY	22440092	.	T	C	49.44	PASS	AC=2;AF=0.043;AN=46;DP=288;FS=0.0
44219	chrY	22440108	.	A	G	48.09	my_snp_filter	AC=1;AF=0.033;AN=30;DP=25
44220	chrY	22440112	.	C	T	179.44	PASS	AC=2;AF=0.091;AN=22;DP=251;FS=0.0
44221	chrY	22440118	.	C	T	52.52	my_snp_filter	AC=2;AF=0.091;AN=22;DP=24
44222	chrY	22440164	.	G	C	1233.43	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
44223	chrY	22440234	.	C	A	158.09	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
44224	chrY	22440258	.	G	A	282.77	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
44225	chrY	22440264	.	C	G	293.70	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
44226	chrY	22440289	.	G	C	395.72	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
44227	chrY	22440312	.	C	T	428	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
44228	chrY	22440314	.	T	G	123.62	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
44229	chrY	22440329	.	A	C	323.76	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
44230	chrY	22440333	.	G	C	2459.81	PASS	AC=5;AF=0.192;AN=26;BaseQRankSum=
44231	chrY	22440348	.	T	A	2739.95	PASS	AC=8;AF=0.444;AN=18;BaseQRankSum=
44232	chrY	22440355	.	A	T	104.96	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=

44233	chrY	22440425	.	G	A	334.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
44234	chrY	22440551	.	T	G	1164.89	PASS	AC=17;AF=0.654;AN=26;BaseQRankSum=
44235	chrY	22440571	.	G	A	537.74	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44236	chrY	22440615	.	A	C	4309.33	my_snp_filter	AC=41;AF=0.820;AN=50;BaseQ
44237	chrY	22440658	.	G	T	5276.20	my_snp_filter	AC=39;AF=0.722;AN=54;BaseQ
44238	chrY	22440685	.	T	A	5486.77	my_snp_filter	AC=40;AF=0.741;AN=54;BaseQ
44239	chrY	22440696	.	G	T	4757.14	my_snp_filter	AC=35;AF=0.700;AN=50;BaseQ
44240	chrY	22440717	.	C	A	3550	my_snp_filter	AC=37;AF=0.740;AN=50;BaseQ
44241	chrY	22440804	.	C	T	1148.78	PASS	AC=18;AF=0.500;AN=36;BaseQRankSum=
44242	chrY	22440821	.	G	C	498.74	PASS	AC=8;AF=0.308;AN=26;DP=248;FS=0.0
44243	chrY	22441064	.	C	A	140.05	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
44244	chrY	22441069	.	T	C	140.41	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
44245	chrY	22441109	.	C	T	122.04	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
44246	chrY	22441136	.	T	C	91.28	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
44247	chrY	22441176	.	A	T	340.80	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
44248	chrY	22441239	.	G	C	3874.54	my_snp_filter	AC=32;AF=0.800;AN=40;BaseQ
44249	chrY	22441260	.	A	C	520.62	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
44250	chrY	22441305	.	A	G	6711.55	my_snp_filter	AC=39;AF=0.975;AN=40;BaseQ
44251	chrY	22441323	.	T	A	1188.67	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44252	chrY	22441324	.	G	A	1183.21	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44253	chrY	22441345	.	C	A	103.11	my_snp_filter	AC=2;AF=0.032;AN=62;DP=48
44254	chrY	22441359	.	C	T	1130.39	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44255	chrY	22441389	.	A	T	70.05	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
44256	chrY	22441404	.	A	C	9100.54	PASS	AC=36;AF=0.563;AN=64;BaseQRankSum=
44257	chrY	22441408	.	T	A	43.98	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44258	chrY	22441417	.	T	C	132.67	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44259	chrY	22441418	.	T	C	703.61	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
44260	chrY	22441419	.	A	G	125.70	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
44261	chrY	22441431	.	A	C	83.97	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44262	chrY	22441437	.	T	G	125.62	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44263	chrY	22441449	.	A	G	865.69	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44264	chrY	22441451	.	T	A	10207.83	PASS	AC=28;AF=0.424;AN=66;BaseQ
44265	chrY	22441488	.	C	T	2319.17	PASS	AC=23;AF=0.338;AN=68;BaseQRankSum=
44266	chrY	22441515	.	T	A	108.52	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44267	chrY	22441583	.	A	C	148.30	my_snp_filter	AC=6;AF=0.100;AN=60;BaseQ
44268	chrY	22441594	.	C	G	62.02	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44269	chrY	22441641	.	G	T	2658.99	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
44270	chrY	22441648	.	T	G	52.86	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
44271	chrY	22441674	.	G	T	1377.91	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
44272	chrY	22441738	.	A	C	3998.24	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
44273	chrY	22441764	.	A	G	2855.61	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44274	chrY	22441797	.	A	G	365.80	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44275	chrY	22441798	.	T	G	762.82	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44276	chrY	22441808	.	T	C	4689.84	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
44277	chrY	22441922	.	G	A	527.19	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44278	chrY	22441940	.	T	C	56.62	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
44279	chrY	22441951	.	T	C	1021.04	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
44280	chrY	22441952	.	A	C	1205.23	my_snp_filter	AC=8;AF=0.143;AN=56;BaseQ
44281	chrY	22441983	.	C	T	1657.07	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
44282	chrY	22441989	.	A	T	1632.49	my_snp_filter	AC=9;AF=0.173;AN=52;BaseQ
44283	chrY	22441999	.	T	C	837.27	my_snp_filter	AC=8;AF=0.167;AN=48;BaseQ
44284	chrY	22442000	.	C	A	153.15	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
44285	chrY	22442190	.	C	T	134.97	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
44286	chrY	22442215	.	T	C	251.71	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
44287	chrY	22442280	.	C	G	174.54	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44288	chrY	22442318	.	T	G	550.73	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44289	chrY	22442321	.	T	A	837.50	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44290	chrY	22442346	.	G	A	1686.34	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
44291	chrY	22442360	.	T	A	332.34	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44292	chrY	22442381	.	T	G	226.03	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44293	chrY	22442427	.	C	T	1413.46	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
44294	chrY	22442434	.	T	C	1033.95	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
44295	chrY	22442439	.	C	T	669.07	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44296	chrY	22442446	.	C	G	140.82	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44297	chrY	22442451	.	T	A	185.73	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44298	chrY	22442486	.	A	T	177.50	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44299	chrY	22442488	.	C	G	176.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44300	chrY	22442505	.	C	T	2431.21	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
44301	chrY	22442515	.	A	T	2297.64	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
44302	chrY	22442516	.	G	C	172.12	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44303	chrY	22442523	.	T	C	53.95	PASS	AC=2;AF=0.031;AN=64;DP=579;FS=0.0
44304	chrY	22442568	.	G	C	766.87	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44305	chrY	22442572	.	T	G	919.28	PASS	AC=7;AF=0.140;AN=50;BaseQRankSum=
44306	chrY	22442584	.	G	T	80.45	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44307	chrY	22442586	.	T	A	822.03	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44308	chrY	22442589	.	G	C	847.04	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=

44309	chrY	22442605	.	G	A	103.20	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44310	chrY	22442623	.	T	C	58.91	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
44311	chrY	22442668	.	A	C	100.80	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44312	chrY	22442697	.	G	A	696.36	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
44313	chrY	22442701	.	A	T	4596.30	PASS	AC=24;AF=0.387;AN=62;BaseQRankSum=
44314	chrY	22442733	.	A	G	3468.48	my_snp_filter	AC=19;AF=0.317;AN=60;Base
44315	chrY	22442737	.	A	T	546.95	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
44316	chrY	22442767	.	G	T	346.01	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44317	chrY	22442793	.	A	T	115.09	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
44318	chrY	22442876	.	T	C	160.77	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
44319	chrY	22442916	.	C	A	178.29	PASS	AC=4;AF=0.091;AN=44;BaseQRankSum=
44320	chrY	22442953	.	G	T	73.67	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
44321	chrY	22443045	.	G	A	869.63	PASS	AC=6;AF=0.100;AN=60;DP=275;FS=0.0
44322	chrY	22443109	.	A	C	95.59	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44323	chrY	22443119	.	T	A	194.98	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
44324	chrY	22443150	.	G	C	4681.12	my_snp_filter	AC=20;AF=0.333;AN=60;Base
44325	chrY	22443251	.	C	A	4347.76	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
44326	chrY	22443255	.	A	C	2535.04	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
44327	chrY	22443338	.	C	T	66.74	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44328	chrY	22443359	.	A	C	697.45	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
44329	chrY	22443466	.	A	C	505.19	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44330	chrY	22443470	.	G	T	7229.95	my_snp_filter	AC=44;AF=0.957;AN=46;Base
44331	chrY	22443489	.	C	G	1535.17	my_snp_filter	AC=16;AF=0.296;AN=54;Base
44332	chrY	22443648	.	A	G	431.24	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
44333	chrY	22443666	.	T	G	115.81	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44334	chrY	22443678	.	T	C	10237.30	PASS	AC=28;AF=0.438;AN=64;Base
44335	chrY	22443736	.	T	A	4806.60	my_snp_filter	AC=25;AF=0.391;AN=64;Base
44336	chrY	22443761	.	G	T	647.10	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44337	chrY	22443890	.	T	G	2858.20	PASS	AC=24;AF=0.545;AN=44;DP=292;FS=0.
44338	chrY	22444028	.	T	C	924.06	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
44339	chrY	22444038	.	G	T	904.97	PASS	AC=6;AF=0.097;AN=62;DP=289;FS=0.0
44340	chrY	22444051	.	T	A	67.24	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
44341	chrY	22444114	.	G	T	45.67	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
44342	chrY	22444136	.	T	G	71.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44343	chrY	22444142	.	T	G	690.52	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
44344	chrY	22444164	.	A	G	273	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
44345	chrY	22444166	.	G	T	2242.11	my_snp_filter	AC=15;AF=0.227;AN=66;Base
44346	chrY	22444170	.	C	G	692.67	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
44347	chrY	22444171	.	C	A	2581.44	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
44348	chrY	22444175	.	G	C	690.66	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
44349	chrY	22444239	.	G	T	237.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44350	chrY	22444260	.	G	T	264.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44351	chrY	22444271	.	C	T	209.45	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44352	chrY	22444276	.	T	A	212.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44353	chrY	22444290	.	T	A	118.78	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44354	chrY	22444294	.	T	G	119.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44355	chrY	22444295	.	C	T	119.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44356	chrY	22444300	.	T	G	1301.52	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
44357	chrY	22444316	.	A	G	38.40	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44358	chrY	22444318	.	T	G	1092.61	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
44359	chrY	22444356	.	C	A	1000.08	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
44360	chrY	22444394	.	C	T	852.10	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
44361	chrY	22444399	.	G	A	857.63	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
44362	chrY	22444425	.	G	C	5487.90	PASS	AC=34;AF=0.548;AN=62;BaseQRankSum=
44363	chrY	22444449	.	T	G	369.35	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
44364	chrY	22444495	.	G	A	719.31	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
44365	chrY	22444508	.	C	A	792.64	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44366	chrY	22444537	.	G	T	846.59	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44367	chrY	22444558	.	C	T	639.73	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44368	chrY	22444562	.	G	A	601.21	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44369	chrY	22444617	.	G	C	188.72	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44370	chrY	22444628	.	C	A	247.93	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44371	chrY	22444631	.	C	A	229.81	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44372	chrY	22444634	.	G	T	225.98	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44373	chrY	22444636	.	G	T	232.21	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44374	chrY	22444659	.	A	T	25621.13	PASS	AC=61;AF=0.984;AN=62;Base
44375	chrY	22444992	.	G	T	56.86	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44376	chrY	22444995	.	G	A	557.79	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
44377	chrY	22445023	.	A	T	641.46	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
44378	chrY	22445063	.	A	T	317.58	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44379	chrY	22445065	.	T	G	312.92	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44380	chrY	22445076	.	T	C	381.75	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44381	chrY	22445087	.	A	G	62.25	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
44382	chrY	22445103	.	C	T	1150.94	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
44383	chrY	22445113	.	C	G	458.73	PASS	AC=7;AF=0.130;AN=54;BaseQRankSum=
44384	chrY	22445132	.	G	T	775.79	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=

44385	chrY	22445134	.	T	G	3078.12	PASS	AC=22;AF=0.423;AN=52;BaseQRankSum=
44386	chrY	22445186	.	A	G	2339.85	PASS	AC=13;AF=0.224;AN=58;BaseQRankSum=
44387	chrY	22445221	.	C	A	2916.83	PASS	AC=11;AF=0.204;AN=54;BaseQRankSum=
44388	chrY	22445251	.	C	G	2748.96	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
44389	chrY	22445276	.	G	C	3071.83	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
44390	chrY	22445299	.	C	T,*	3042.42	PASS	AC=5,3;AF=0.089,0.054;AN=56;BaseQ
44391	chrY	22445342	.	A	T	4556.05	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
44392	chrY	22445345	.	A	T	4499.21	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
44393	chrY	22445374	.	C	T	1230.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
44394	chrY	22445376	.	G	A	1357.17	PASS	AC=12;AF=0.200;AN=60;BaseQRankSum=
44395	chrY	22445419	.	A	T	3705.27	PASS	AC=21;AF=0.328;AN=64;BaseQRankSum=
44396	chrY	22445428	.	T	C	3500.18	PASS	AC=20;AF=0.323;AN=62;BaseQRankSum=
44397	chrY	22445435	.	A	C	3033.28	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
44398	chrY	22445459	.	A	C	2323.10	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
44399	chrY	22445467	.	A	T	169.67	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44400	chrY	22445496	.	A	G	810.38	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
44401	chrY	22445524	.	T	G	478.19	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
44402	chrY	22445558	.	G	A	154.46	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44403	chrY	22445562	.	C	G	83.15	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44404	chrY	22445610	.	G	T	166.98	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44405	chrY	22445615	.	T	G	413.99	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44406	chrY	22445645	.	G	T	457.61	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44407	chrY	22445669	.	A	C	471.67	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44408	chrY	22445672	.	T	A	466.21	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44409	chrY	22445683	.	G	T	422.76	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
44410	chrY	22445740	.	T	G	228.89	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
44411	chrY	22445777	.	C	T	741.04	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
44412	chrY	22445778	.	C	A	740.94	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
44413	chrY	22445790	.	A	C	754.09	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
44414	chrY	22445795	.	G	T	47.53	my_snp_filter	AC=2;AF=0.034;AN=58;DP=28
44415	chrY	22445808	.	G	C	743.38	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
44416	chrY	22445815	.	T	C	215.44	PASS	AC=2;AF=0.033;AN=60;DP=261;FS=0.0
44417	chrY	22445851	.	C	G	252.82	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44418	chrY	22445858	.	G	C	665.29	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44419	chrY	22445958	.	C	G	69.36	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
44420	chrY	22446124	.	C	T	468.74	PASS	AC=11;AF=0.550;AN=20;BaseQRankSum=
44421	chrY	22446149	.	T	C	206.77	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
44422	chrY	22446154	.	A	T	2556.86	PASS	AC=32;AF=0.842;AN=38;BaseQRankSum=
44423	chrY	22446186	.	A	T	817.70	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
44424	chrY	22446209	.	A	T	79.32	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44425	chrY	22446216	.	A	T	70.40	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44426	chrY	22446231	.	G	C	368.29	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44427	chrY	22446240	.	G	T	384.69	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44428	chrY	22446256	.	T	G	534.22	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
44429	chrY	22446286	.	G	C	768.33	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44430	chrY	22446299	.	C	T	789.25	PASS	AC=2;AF=0.030;AN=64;BaseQRankSum=
44431	chrY	22446305	.	A	G	66.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44432	chrY	22446331	.	T	G	512.25	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44433	chrY	22446337	.	T	A	4512.89	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
44434	chrY	22446350	.	T	A	4200.77	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
44435	chrY	22446352	.	G	C	4139.98	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
44436	chrY	22446381	.	G	A	2185.99	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
44437	chrY	22446387	.	T	G	244.23	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
44438	chrY	22446397	.	T	C	494.25	PASS	AC=2;AF=0.029;AN=70;DP=815;FS=0.0
44439	chrY	22446400	.	C	T	2281.58	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
44440	chrY	22446411	.	G	A	1080.07	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
44441	chrY	22446434	.	G	A	160.14	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
44442	chrY	22446477	.	C	T	984.87	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
44443	chrY	22446488	.	A	G	3501.97	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
44444	chrY	22446513	.	G	T	3752.64	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
44445	chrY	22446525	.	T	A	236.06	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44446	chrY	22446605	.	A	G	2131.12	PASS	AC=21;AF=0.404;AN=52;BaseQRankSum=
44447	chrY	22446611	.	T	G	164.32	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
44448	chrY	22446612	.	T	A	166.14	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
44449	chrY	22446632	.	T	G	4488.81	PASS	AC=17;AF=0.327;AN=52;BaseQRankSum=
44450	chrY	22446643	.	G	C	3846.61	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum=
44451	chrY	22446658	.	G	T	3092.26	PASS	AC=13;AF=0.232;AN=56;BaseQRankSum=
44452	chrY	22446675	.	T	C	2282.19	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum=
44453	chrY	22446678	.	C	G	2128.16	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum=
44454	chrY	22446689	.	T	C	1624.43	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
44455	chrY	22446703	.	C	G	201.70	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44456	chrY	22446727	.	A	C	674.05	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
44457	chrY	22446748	.	A	C	39.96	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44458	chrY	22446820	.	G	T	164.55	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44459	chrY	22446855	.	A	T	52.76	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
44460	chrY	22446859	.	G	C	1199.66	PASS	AC=10;AF=0.152;AN=66;BaseQRankSum=

44461	chrY	22446875	.	T	G	1349.72	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
44462	chrY	22446877	.	G	A	604.54	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
44463	chrY	22446920	.	G	A	230.58	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
44464	chrY	22446964	.	T	G	2158.28	my_snp_filter	AC=16;AF=0.250;AN=64;Base
44465	chrY	22447013	.	A	G	110.80	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
44466	chrY	22447021	.	T	C	84.27	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
44467	chrY	22447024	.	G	T	61.21	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
44468	chrY	22447059	.	G	A	992.49	PASS	AC=10;AF=0.161;AN=62;BaseQRankSum=
44469	chrY	22447081	.	T	A	1230.08	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
44470	chrY	22447121	.	G	T	216.09	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44471	chrY	22447124	.	C	A	652.81	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
44472	chrY	22447160	.	G	A	1923.61	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
44473	chrY	22447161	.	G	T	6172.47	PASS	AC=26;AF=0.448;AN=58;BaseQRankSum=
44474	chrY	22447234	.	G	T	129.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44475	chrY	22447244	.	C	A	104.76	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44476	chrY	22447245	.	A	C	3038.46	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum=
44477	chrY	22447269	.	A	T	205.64	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
44478	chrY	22447352	.	T	C	637.88	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
44479	chrY	22447363	.	C	G	16126.96	my_snp_filter	AC=62;AF=1.00;AN=
44480	chrY	22447399	.	T	A	168.65	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44481	chrY	22447403	.	C	T	148	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44482	chrY	22447434	.	G	A	131.97	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44483	chrY	22447435	.	C	G	129.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44484	chrY	22447438	.	T	G	8963.36	PASS	AC=22;AF=0.440;AN=50;BaseQRankSum=
44485	chrY	22447467	.	A	C	96.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44486	chrY	22447470	.	T	C	774.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
44487	chrY	22447475	.	A	T	121.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44488	chrY	22447497	.	C	G	155.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44489	chrY	22447513	.	G	C,A	2505.90	my_snp_filter	AC=11,10;AF=0.157,0.143;A
44490	chrY	22447521	.	T	A	860.87	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
44491	chrY	22447524	.	G	T	239.20	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44492	chrY	22447536	.	G	A	881.37	my_snp_filter	AC=14;AF=0.200;AN=70;Base
44493	chrY	22447542	.	A	T	215.67	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
44494	chrY	22447545	.	G	C	620.53	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
44495	chrY	22447547	.	T	G	30.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44496	chrY	22447567	.	A	T	114.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44497	chrY	22447570	.	G	C	180.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44498	chrY	22447572	.	G	C	31.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44499	chrY	22447573	.	T	C	72.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44500	chrY	22447586	.	C	G	773.72	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
44501	chrY	22447608	.	G	A	724.60	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
44502	chrY	22447621	.	G	A	1138.74	my_snp_filter	AC=10;AF=0.147;AN=68;Base
44503	chrY	22447624	.	C	G	2306.01	my_snp_filter	AC=19;AF=0.288;AN=66;Base
44504	chrY	22447630	.	A	G	4475.53	my_snp_filter	AC=25;AF=0.431;AN=58;Base
44505	chrY	22447640	.	C	T	47.11	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
44506	chrY	22447649	.	G	C	505.87	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
44507	chrY	22447656	.	C	T,G	1010.64	my_snp_filter	AC=2,4;AF=0.036,0.071;AN=
44508	chrY	22447661	.	G	A	375.99	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44509	chrY	22447664	.	T	A	35.80	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
44510	chrY	22447674	.	T	C	989.28	my_snp_filter	AC=5;AF=0.104;AN=48;BaseQ
44511	chrY	22447682	.	T	C	762.92	my_snp_filter	AC=5;AF=0.125;AN=40;BaseQ
44512	chrY	22447683	.	G	T	1132.90	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
44513	chrY	22447689	.	T	G	53.96	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
44514	chrY	22447694	.	G	A	266.32	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
44515	chrY	22447838	.	A	C	138.70	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
44516	chrY	22447848	.	T	A	656.75	my_snp_filter	AC=18;AF=0.600;AN=30;DP=1
44517	chrY	22447915	.	C	T	50.90	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
44518	chrY	22448171	.	G	T	2038.34	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQ
44519	chrY	22448195	.	G	T	4344.69	my_snp_filter	AC=10;AF=0.227;AN=44;Base
44520	chrY	22448196	.	G	T	636.05	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
44521	chrY	22448250	.	C	T	1143	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
44522	chrY	22448295	.	C	A	79.52	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44523	chrY	22448298	.	T	G	78.96	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44524	chrY	22448320	.	A	G	4670.33	my_snp_filter	AC=13;AF=0.210;AN=62;Base
44525	chrY	22448326	.	G	C	3928.48	my_snp_filter	AC=13;AF=0.203;AN=64;Base
44526	chrY	22448327	.	C	T	83.73	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44527	chrY	22448328	.	T	A	216.83	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
44528	chrY	22448350	.	G	A	95.82	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
44529	chrY	22448354	.	A	T	92.92	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
44530	chrY	22448355	.	T	C	97.40	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
44531	chrY	22448367	.	T	C	90.32	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
44532	chrY	22448378	.	C	A	93.39	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
44533	chrY	22448435	.	G	T	969.57	my_snp_filter	AC=13;AF=0.224;AN=58;Base
44534	chrY	22448504	.	T	A	1267.54	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
44535	chrY	22448520	.	T	A	61.06	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44536	chrY	22448540	.	T	C	83.48	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ

44537	chrY	22448629	.	A	T	124.94	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
44538	chrY	22448639	.	G	T	176.22	my_snp_filter	AC=2;AF=0.042;AN=48;BaseQ
44539	chrY	22448650	.	G	C	145.28	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
44540	chrY	22448793	.	G	A	3131.02	my_snp_filter	AC=22;AF=1.00;AN=22;DP=13
44541	chrY	22448858	.	T	G	283.48	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
44542	chrY	22449026	.	T	G	2795.56	my_snp_filter	AC=22;AF=0.355;AN=62;BaseQ
44543	chrY	22449027	.	T	C	598.94	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
44544	chrY	22449126	.	G	T	55.11	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44545	chrY	22449174	.	A	T	141.63	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
44546	chrY	22449197	.	T	A	139.28	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
44547	chrY	22449287	.	G	A	505.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
44548	chrY	22449522	.	T	G	918.88	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44549	chrY	22449713	.	A	T	795.44	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
44550	chrY	22449787	.	G	A	72.51	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
44551	chrY	22449934	.	T	G,*	794.47	my_snp_filter	AC=8,1;AF=0.800,0.100;AN=
44552	chrY	22457231	.	C	A	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=3;FS
44553	chrY	22457252	.	T	A	67.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=4;FS
44554	chrY	22457256	.	G	T	63.49	my_snp_filter	AC=2;AF=0.500;AN=4;DP=4;F
44555	chrY	22457483	.	G	T	370.28	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
44556	chrY	22457515	.	C	T	600.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
44557	chrY	22457517	.	G	A	111.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44558	chrY	22457520	.	T	A	594.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
44559	chrY	22457523	.	C	G	86.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44560	chrY	22457534	.	T	A	656.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44561	chrY	22457538	.	T	G	575.79	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44562	chrY	22457539	.	C	T	564.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44563	chrY	22457560	.	A	G	439.61	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44564	chrY	22457562	.	G	A	443.74	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44565	chrY	22457600	.	C	A	4306.79	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
44566	chrY	22457637	.	A	G	571.54	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
44567	chrY	22457642	.	T	G	405.17	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44568	chrY	22457643	.	G	A	378.51	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44569	chrY	22457682	.	G	T	787.20	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44570	chrY	22457739	.	G	A	46.76	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
44571	chrY	22457870	.	C	T	328.47	PASS	AC=2;AF=0.033;AN=60;DP=339;FS=0.0
44572	chrY	22458004	.	G	T	161.84	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44573	chrY	22458007	.	T	A	159.13	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44574	chrY	22458504	.	T	A	1032.26	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
44575	chrY	22458687	.	C	A	51.61	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44576	chrY	22458807	.	T	G	184.87	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44577	chrY	22458814	.	C	G	176.72	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
44578	chrY	22458821	.	C	A	229.97	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
44579	chrY	22458828	.	G	C	330.66	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
44580	chrY	22458859	.	T	A	976.84	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44581	chrY	22458862	.	T	C	315.88	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
44582	chrY	22458877	.	T	G	100.67	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44583	chrY	22458898	.	C	T	202.02	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44584	chrY	22458906	.	A	G	123.67	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44585	chrY	22458907	.	C	T	372.03	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
44586	chrY	22458915	.	G	T	4096.87	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum=
44587	chrY	22459019	.	T	G	5703.71	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
44588	chrY	22459048	.	C	A	59.83	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44589	chrY	22459063	.	T	A	73.04	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44590	chrY	22459064	.	G	T	73.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44591	chrY	22459084	.	T	G	8702.26	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=
44592	chrY	22459127	.	G	T	6546.27	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
44593	chrY	22459138	.	G	T	4872.09	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
44594	chrY	22459170	.	T	C	1341.90	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
44595	chrY	22459179	.	G	A	647.51	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
44596	chrY	22459182	.	G	T	613.35	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
44597	chrY	22459190	.	G	A	560.07	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44598	chrY	22459192	.	C	A	559.44	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
44599	chrY	22459194	.	T	G	2065.23	PASS	AC=21;AF=0.389;AN=54;BaseQRankSum=
44600	chrY	22459219	.	T	G	871.50	PASS	AC=12;AF=0.333;AN=36;DP=185;FS=0.
44601	chrY	22459229	.	G	T	584.70	PASS	AC=10;AF=0.278;AN=36;DP=163;FS=0.
44602	chrY	22459262	.	A	G	246.49	my_snp_filter	AC=6;AF=0.250;AN=24;DP=11
44603	chrY	22459281	.	T	A	130.05	my_snp_filter	AC=4;AF=0.182;AN=22;DP=97
44604	chrY	22459625	.	G	T	57.15	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44605	chrY	22459694	.	T	C	64.58	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
44606	chrY	22459716	.	G	T	49.41	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44607	chrY	22459729	.	T	G	1881.32	PASS	AC=13;AF=0.382;AN=34;BaseQRankSum=
44608	chrY	22459731	.	G	C	93.61	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
44609	chrY	22459734	.	T	A	1373.91	PASS	AC=10;AF=0.185;AN=54;BaseQRankSum=
44610	chrY	22459744	.	C	T	45.63	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44611	chrY	22459789	.	A	C	49.64	PASS	AC=2;AF=0.036;AN=56;DP=223;FS=0.0
44612	chrY	22459798	.	C	T	49.60	PASS	AC=2;AF=0.042;AN=48;DP=202;FS=0.0

44613	chrY	22460109	.	T	G	632.92	PASS	AC=6;AF=0.333;AN=18;DP=114;FS=0.0
44614	chrY	22460427	.	G	C	4848.01	PASS	AC=36;AF=0.750;AN=48;DP=236;FS=0.
44615	chrY	22460441	.	C	A	188.12	PASS	AC=2;AF=0.037;AN=54;DP=241;FS=0.0
44616	chrY	22460570	.	T	C	8438.10	PASS	AC=52;AF=0.963;AN=54;DP=269;FS=0.
44617	chrY	22460605	.	G	T	230.78	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
44618	chrY	22460780	.	G	C	387.29	PASS	AC=2;AF=0.037;AN=54;DP=295;FS=0.0
44619	chrY	22460810	.	G	A	485.73	PASS	AC=2;AF=0.037;AN=54;DP=284;FS=0.0
44620	chrY	22461259	.	T	C	126.40	PASS	AC=2;AF=0.037;AN=54;DP=253;FS=0.0
44621	chrY	22461262	.	G	T	1060.95	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
44622	chrY	22461368	.	G	C	337.07	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
44623	chrY	22461409	.	T	A	377.34	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
44624	chrY	22461427	.	A	T	1820.25	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
44625	chrY	22461435	.	A	G	132.57	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44626	chrY	22461457	.	C	A	448.82	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
44627	chrY	22461490	.	A	C	337.46	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
44628	chrY	22461492	.	A	C	121.38	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44629	chrY	22461508	.	G	C	136.06	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44630	chrY	22461514	.	T	A	135.34	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44631	chrY	22461574	.	G	A	1871.03	PASS	AC=19;AF=0.297;AN=64;BaseQRankSum=
44632	chrY	22461576	.	A	T	33.17	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44633	chrY	22461588	.	T	A	34.16	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44634	chrY	22461589	.	C	T	33.52	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44635	chrY	22461590	.	C	A	33.45	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
44636	chrY	22461631	.	G	A	40.11	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44637	chrY	22461722	.	A	G	802.39	PASS	AC=6;AF=0.097;AN=62;DP=362;FS=0.0
44638	chrY	22461815	.	T	C	100.88	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44639	chrY	22461831	.	G	A	84.63	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44640	chrY	22461835	.	C	A	85.04	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44641	chrY	22461838	.	A	G	46.81	my_snp_filter	AC=2;AF=0.030;AN=66;DP=33
44642	chrY	22461841	.	T	C	88.08	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44643	chrY	22462062	.	T	G	19836.36	PASS	AC=46;AF=0.719;AN=64;BaseQ
44644	chrY	22462091	.	T	A	100.69	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44645	chrY	22462100	.	G	A	102.24	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44646	chrY	22462142	.	T	A	391.07	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
44647	chrY	22462153	.	C	G	37.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44648	chrY	22462162	.	C	T	411.65	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44649	chrY	22462166	.	C	T	37.21	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44650	chrY	22462175	.	G	C	414.24	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
44651	chrY	22462183	.	T	G	407.20	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44652	chrY	22462234	.	G	A	2172.55	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
44653	chrY	22462241	.	A	C	2123.63	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
44654	chrY	22462276	.	A	C	1401.82	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
44655	chrY	22462310	.	T	C	142.17	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44656	chrY	22462335	.	G	A	47.59	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44657	chrY	22462475	.	G	T	378	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
44658	chrY	22462481	.	G	A	370.47	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44659	chrY	22462485	.	T	A	62.85	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44660	chrY	22462486	.	T	G	282.41	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44661	chrY	22462490	.	T	G	359.18	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
44662	chrY	22462491	.	G	A	195.83	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44663	chrY	22462493	.	G	A	155.97	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44664	chrY	22462509	.	G	C	41.90	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44665	chrY	22462525	.	G	C	39.66	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
44666	chrY	22462613	.	C	A	67.55	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
44667	chrY	22462616	.	T	A	67.44	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
44668	chrY	22462783	.	T	C	113.25	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44669	chrY	22462894	.	G	A	987.18	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
44670	chrY	22462967	.	G	A	729.82	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44671	chrY	22462971	.	G	C	767.80	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
44672	chrY	22462982	.	T	A	944.90	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
44673	chrY	22462988	.	G	T	1070.33	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
44674	chrY	22463017	.	A	G	847.27	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
44675	chrY	22463114	.	T	G	92.25	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
44676	chrY	22463130	.	G	C	89.82	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
44677	chrY	22463410	.	G	T	841.94	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
44678	chrY	22463411	.	C	T	304.32	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44679	chrY	22463429	.	T	G	1027.65	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
44680	chrY	22463572	.	G	A	596.93	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
44681	chrY	22463576	.	C	T	533.29	PASS	AC=6;AF=0.120;AN=50;BaseQRankSum=
44682	chrY	22463653	.	C	G	618.72	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
44683	chrY	22463694	.	G	T	3693.03	PASS	AC=26;AF=0.591;AN=44;DP=282;FS=0.
44684	chrY	22463830	.	T	G	709.12	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
44685	chrY	22463886	.	A	G	389.69	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44686	chrY	22463911	.	G	A	137.88	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
44687	chrY	22463930	.	C	A	94.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44688	chrY	22463931	.	A	G	301.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

44689	chrY	22463936	.	A	C	55.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44690	chrY	22463946	.	C	T	41.78	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44691	chrY	22463959	.	A	C	119.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44692	chrY	22463960	.	G	A	116.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44693	chrY	22464080	.	T	A	12037.08	PASS	AC=29;AF=0.453;AN=64;BaseQ
44694	chrY	22464127	.	C	T	6060.78	PASS	AC=23;AF=0.371;AN=62;BaseQRankSum
44695	chrY	22464131	.	T	A	5298.80	PASS	AC=22;AF=0.344;AN=64;BaseQRankSum
44696	chrY	22464151	.	C	T	3480.40	my_snp_filter	AC=19;AF=0.288;AN=66;BaseQ
44697	chrY	22464164	.	G	C	2633.10	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum
44698	chrY	22464172	.	G	C	56.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
44699	chrY	22464174	.	C	G	31.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
44700	chrY	22464196	.	T	C	919.91	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum
44701	chrY	22464223	.	G	A	751.36	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum
44702	chrY	22464230	.	A	C	715.61	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum
44703	chrY	22464254	.	T	C	499.01	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
44704	chrY	22464395	.	T	A	20502.20	PASS	AC=46;AF=0.676;AN=68;BaseQ
44705	chrY	22464838	.	G	T	2181.71	PASS	AC=24;AF=0.429;AN=56;DP=286;FS=0.
44706	chrY	22464928	.	T	C	9136.28	PASS	AC=55;AF=0.982;AN=56;BaseQRankSum
44707	chrY	22465065	.	G	T	227.58	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum
44708	chrY	22465068	.	A	G	549.30	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum
44709	chrY	22465072	.	A	T	346.46	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum
44710	chrY	22465074	.	C	A	511.05	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum
44711	chrY	22465103	.	G	T	2704.90	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum
44712	chrY	22465121	.	T	G,*	2419.94	PASS	AC=8,3;AF=0.133,0.050;AN=60;BaseQ
44713	chrY	22465142	.	C	G,*	1862.42	PASS	AC=8,2;AF=0.133,0.033;AN=60;BaseQ
44714	chrY	22465199	.	G	C,*	5598.35	PASS	AC=20,2;AF=0.345,0.034;AN=58;BaseQ
44715	chrY	22465230	.	G	A	5364.94	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum
44716	chrY	22465267	.	G	T	6000.73	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum
44717	chrY	22465269	.	G	T	85.12	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44718	chrY	22465278	.	C	A	462.24	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum
44719	chrY	22465285	.	G	T	6182.76	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum
44720	chrY	22465341	.	T	C	1798.20	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum
44721	chrY	22465344	.	C	T	7724.21	PASS	AC=28;AF=0.452;AN=62;BaseQRankSum
44722	chrY	22465346	.	C	T	1792.56	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
44723	chrY	22465388	.	C	A	6909.73	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum
44724	chrY	22465422	.	A	G	2784.18	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum
44725	chrY	22465424	.	A	T	2734.18	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum
44726	chrY	22465436	.	T	A	2001.37	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQ
44727	chrY	22465439	.	A	T	1871.05	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
44728	chrY	22465466	.	T	C	784.50	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
44729	chrY	22465474	.	G	A	743.32	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
44730	chrY	22465555	.	G	C	915.24	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
44731	chrY	22465561	.	C	G	920.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
44732	chrY	22465574	.	G	C	910.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
44733	chrY	22465586	.	T	C	908.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
44734	chrY	22465615	.	G	T	417.86	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
44735	chrY	22465643	.	A	T	262.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
44736	chrY	22465656	.	G	A	216.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
44737	chrY	22465734	.	C	T	89.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44738	chrY	22465741	.	T	A	89.22	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44739	chrY	22465978	.	G	T	51.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
44740	chrY	22466041	.	G	T	191.71	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
44741	chrY	22466062	.	G	T	103.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
44742	chrY	22466098	.	T	C	382.23	PASS	AC=2;AF=0.029;AN=70;DP=706;FS=0.0
44743	chrY	22466200	.	T	A	917.30	PASS	AC=6;AF=0.086;AN=70;DP=479;FS=0.0
44744	chrY	22466352	.	G	T	320.68	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum
44745	chrY	22466451	.	A	T	34.59	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
44746	chrY	22466601	.	T	G	979.82	PASS	AC=6;AF=0.100;AN=60;DP=297;FS=0.0
44747	chrY	22466682	.	A	T	131.09	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
44748	chrY	22466843	.	T	A	1205.17	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum
44749	chrY	22466846	.	A	G	381.64	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum
44750	chrY	22466961	.	C	T	20639.56	PASS	AC=47;AF=0.691;AN=68;BaseQ
44751	chrY	22467076	.	G	T	269.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
44752	chrY	22467097	.	G	T	1249.15	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum
44753	chrY	22467098	.	G	A	684.56	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
44754	chrY	22467126	.	A	T	1344.75	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum
44755	chrY	22467191	.	G	T	41.55	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
44756	chrY	22467214	.	C	G	5609.97	PASS	AC=32;AF=0.516;AN=62;DP=436;FS=0.
44757	chrY	22467366	.	T	G	870.74	PASS	AC=6;AF=0.100;AN=60;DP=299;FS=0.0
44758	chrY	22467541	.	G	C	4482.60	PASS	AC=42;AF=0.700;AN=60;DP=324;FS=12
44759	chrY	22467558	.	A	G	1170.89	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum
44760	chrY	22467650	.	G	A	1163.13	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum
44761	chrY	22467867	.	C	T	3278.98	PASS	AC=33;AF=0.516;AN=64;BaseQRankSum
44762	chrY	22468072	.	T	G	1240.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
44763	chrY	22468504	.	C	T	4804.91	my_snp_filter	AC=42;AF=0.700;AN=60;BaseQ
44764	chrY	22468603	.	C	T	393.27	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum

44765	chrY	22469206	.	A	T	64.32	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
44766	chrY	22469209	.	A	G,T	474.61	my_snp_filter	AC=6,1;AF=0.111,0.019;AN=
44767	chrY	22469214	.	G	C	67.56	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
44768	chrY	22469238	.	G	T	343.96	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
44769	chrY	22469243	.	A	G	308.60	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
44770	chrY	22469244	.	A	G	309.55	my_snp_filter	AC=4;AF=0.071;AN=56;BaseQ
44771	chrY	22469266	.	G	A	219.60	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
44772	chrY	22469280	.	C	T	134.21	my_snp_filter	AC=4;AF=0.067;AN=60;BaseQ
44773	chrY	22469486	.	A	C	91.40	PASS	AC=2;AF=0.037;AN=54;DP=211;FS=0.0
44774	chrY	22469496	.	C	G	90.92	PASS	AC=2;AF=0.034;AN=58;DP=216;FS=0.0
44775	chrY	22469565	.	C	T	35.27	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
44776	chrY	22469746	.	G	T	954.50	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44777	chrY	22469846	.	T	G	41.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44778	chrY	22469858	.	T	G	40.14	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44779	chrY	22469869	.	A	G	96.30	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44780	chrY	22469881	.	T	A	77.42	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44781	chrY	22469979	.	A	T	64.59	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
44782	chrY	22470114	.	C	T	1147.31	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44783	chrY	22470139	.	G	A	8827.69	PASS	AC=37;AF=0.597;AN=62;BaseQRankSum=
44784	chrY	22470193	.	A	T	16537.53	PASS	AC=50;AF=0.806;AN=62;DP=6
44785	chrY	22470291	.	A	G	8431.55	PASS	AC=48;AF=0.800;AN=60;BaseQRankSum=
44786	chrY	22470300	.	C	G	1164.33	PASS	AC=6;AF=0.097;AN=62;DP=341;FS=0.0
44787	chrY	22470358	.	C	G	1159.13	PASS	AC=6;AF=0.100;AN=60;DP=259;FS=0.0
44788	chrY	22470512	.	C	A	431.55	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
44789	chrY	22470542	.	G	C	158.49	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
44790	chrY	22470656	.	C	G	577.24	PASS	AC=2;AF=0.033;AN=60;DP=257;FS=0.0
44791	chrY	22470665	.	A	C	604.13	PASS	AC=2;AF=0.033;AN=60;DP=268;FS=0.0
44792	chrY	22470667	.	C	G	605.13	PASS	AC=2;AF=0.033;AN=60;DP=277;FS=0.0
44793	chrY	22470800	.	T	A	57.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44794	chrY	22470808	.	C	T	58.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44795	chrY	22470971	.	G	C	1307.78	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
44796	chrY	22471051	.	G	A	181.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44797	chrY	22471323	.	A	G	309.34	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
44798	chrY	22471624	.	G	C	3145.20	PASS	AC=34;AF=0.654;AN=52;DP=259;FS=0.0
44799	chrY	22471726	.	T	C	694.94	PASS	AC=2;AF=0.029;AN=68;DP=333;FS=0.0
44800	chrY	22471756	.	T	C	8526.38	PASS	AC=42;AF=0.700;AN=60;DP=366;FS=0.0
44801	chrY	22471758	.	G	T	12872.02	PASS	AC=60;AF=1.00;AN=60;DP=36
44802	chrY	22472425	.	C	T	377.18	PASS	AC=2;AF=0.034;AN=58;DP=258;FS=0.0
44803	chrY	22472893	.	G	T	171.67	PASS	AC=2;AF=0.034;AN=58;DP=213;FS=0.0
44804	chrY	22472947	.	G	C	86.62	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44805	chrY	22473147	.	G	A	836.88	PASS	AC=6;AF=0.088;AN=68;DP=248;FS=0.0
44806	chrY	22473165	.	G	C	74.74	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44807	chrY	22473168	.	G	T	74.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44808	chrY	22473177	.	A	T	77.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44809	chrY	22473178	.	C	G	77.82	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44810	chrY	22473179	.	C	T	127.49	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
44811	chrY	22473186	.	G	T	155.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
44812	chrY	22473193	.	G	A	37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44813	chrY	22473203	.	G	T	37.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
44814	chrY	22473255	.	G	C	402.24	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
44815	chrY	22473273	.	C	T	218.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
44816	chrY	22473302	.	A	T	485.37	PASS	AC=2;AF=0.029;AN=70;DP=758;FS=0.0
44817	chrY	22473540	.	C	G	859.39	PASS	AC=6;AF=0.097;AN=62;DP=280;FS=0.0
44818	chrY	22473543	.	G	T	499.32	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
44819	chrY	22473720	.	C	T	5109.71	PASS	AC=42;AF=0.700;AN=60;BaseQRankSum=
44820	chrY	22473884	.	A	T	30.43	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
44821	chrY	22474043	.	G	T	78.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
44822	chrY	22474638	.	G	T	2411.51	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
44823	chrY	22474686	.	T	G	7132.75	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
44824	chrY	22474721	.	A	C,*	1123	PASS	AC=11,3;AF=0.162,0.044;AN=68;BaseQ
44825	chrY	22474730	.	A	G,*	820.50	PASS	AC=8,3;AF=0.114,0.043;AN=70;BaseQ
44826	chrY	22474797	.	T	C	979.73	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44827	chrY	22474930	.	T	G	39.34	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
44828	chrY	22475101	.	A	T	38.25	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44829	chrY	22475104	.	T	G	38.15	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44830	chrY	22475178	.	A	T	235.03	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
44831	chrY	22475181	.	A	C	131.51	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44832	chrY	22475194	.	G	T	8649.96	PASS	AC=55;AF=0.948;AN=58;BaseQRankSum=
44833	chrY	22475196	.	T	A	281.93	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44834	chrY	22475212	.	G	T	36.64	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44835	chrY	22475217	.	T	C	39.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
44836	chrY	22475235	.	C	T	269.12	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44837	chrY	22475248	.	T	C	273.48	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44838	chrY	22475279	.	A	C	37.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44839	chrY	22475280	.	G	T	37.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
44840	chrY	22475403	.	C	A	4811.44	PASS	AC=38;AF=0.760;AN=50;DP=277;FS=0.0

44841	chrY	22475590	.	T	A	33.28	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
44842	chrY	22475605	.	G	A	33.85	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44843	chrY	22475695	.	A	G	90.51	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44844	chrY	22475819	.	T	A	50.72	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44845	chrY	22475821	.	T	A	114.33	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44846	chrY	22475851	.	A	G	140.34	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44847	chrY	22475855	.	G	A	61.49	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
44848	chrY	22475863	.	A	C	140.43	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44849	chrY	22475864	.	G	A	69.76	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44850	chrY	22475865	.	T	A	505.34	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
44851	chrY	22475874	.	T	A	547.41	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
44852	chrY	22475881	.	G	A	47.16	my_snp_filter	AC=2;AF=0.030;AN=66;DP=35
44853	chrY	22475883	.	T	A	486.70	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
44854	chrY	22475895	.	C	T	303.54	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44855	chrY	22476381	.	A	T	236.89	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
44856	chrY	22476393	.	G	T	356.37	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
44857	chrY	22476404	.	A	T	287.34	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
44858	chrY	22476419	.	T	A	299.74	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
44859	chrY	22476544	.	T	C,*	2097.65	PASS	AC=11,2;AF=0.157,0.029;AN=70;Base
44860	chrY	22476572	.	G	T	6737.91	PASS	AC=35;AF=0.547;AN=64;BaseQRankSum=
44861	chrY	22476607	.	T	C	857.01	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
44862	chrY	22476654	.	A	T	73.31	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
44863	chrY	22476669	.	T	A	34.30	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
44864	chrY	22476673	.	T	G	305.87	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44865	chrY	22476690	.	C	T	267.95	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44866	chrY	22476691	.	T	A	1944.81	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
44867	chrY	22476696	.	A	G	2386.41	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
44868	chrY	22476701	.	T	G	160.76	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44869	chrY	22476712	.	T	C	88.12	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
44870	chrY	22476727	.	T	G	844.84	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
44871	chrY	22476734	.	C	G	639.32	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
44872	chrY	22476737	.	T	A	526.59	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
44873	chrY	22476755	.	T	A	347.85	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
44874	chrY	22476785	.	C	G	58.16	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44875	chrY	22476799	.	A	G	56.39	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44876	chrY	22476803	.	A	C	55.38	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44877	chrY	22476834	.	T	G	9090.88	PASS	AC=48;AF=0.800;AN=60;DP=332;FS=0.
44878	chrY	22476835	.	T	A	9091.12	PASS	AC=48;AF=0.800;AN=60;DP=328;FS=0.
44879	chrY	22476901	.	A	T	1432.79	PASS	AC=6;AF=0.091;AN=66;DP=279;FS=0.0
44880	chrY	22477129	.	G	A	456.53	PASS	AC=2;AF=0.032;AN=62;DP=234;FS=0.0
44881	chrY	22477292	.	C	A	1617.84	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44882	chrY	22477300	.	G	A	395.23	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44883	chrY	22477339	.	T	A	83.84	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
44884	chrY	22477348	.	A	T	2090.03	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44885	chrY	22477360	.	C	A	31.86	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44886	chrY	22477372	.	C	G	322.73	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
44887	chrY	22477374	.	G	T	558.33	PASS	AC=6;AF=0.097;AN=62;DP=337;FS=0.0
44888	chrY	22477427	.	C	G	222.10	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
44889	chrY	22477446	.	G	T	508.93	PASS	AC=2;AF=0.031;AN=64;DP=374;FS=0.0
44890	chrY	22477449	.	G	T	124.83	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
44891	chrY	22477462	.	T	A	130.51	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44892	chrY	22477484	.	A	G	174.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44893	chrY	22477518	.	C	T	199.98	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44894	chrY	22477572	.	T	G	92.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
44895	chrY	22477751	.	G	C	193.03	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44896	chrY	22477818	.	A	C,*	289.45	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
44897	chrY	22477840	.	T	G	2868.20	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
44898	chrY	22477859	.	G	C,*	1894.10	PASS	AC=3,1;AF=0.044,0.015;AN=68;BaseQ
44899	chrY	22477884	.	T	G,*	2232.65	PASS	AC=7,1;AF=0.121,0.017;AN=58;BaseQ
44900	chrY	22477922	.	C	A,*	726.49	PASS	AC=2,1;AF=0.036,0.018;AN=56;BaseQ
44901	chrY	22477925	.	T	G,*	512.65	PASS	AC=2,1;AF=0.036,0.018;AN=56;BaseQ
44902	chrY	22477926	.	T	G	380.10	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
44903	chrY	22477952	.	A	T,*	184.65	my_snp_filter	AC=2,1;AF=0.036,0.018;AN=
44904	chrY	22477956	.	A	C,*	233.13	my_snp_filter	AC=3,1;AF=0.054,0.018;AN=
44905	chrY	22477957	.	A	C,*	185.21	my_snp_filter	AC=3,1;AF=0.054,0.018;AN=
44906	chrY	22478500	.	C	G	2716.18	PASS	AC=6;AF=0.097;AN=62;DP=370;FS=0.0
44907	chrY	22478538	.	C	A	46.67	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44908	chrY	22478541	.	A	C	46.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44909	chrY	22478546	.	G	C	46.52	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44910	chrY	22478735	.	A	G	4346.89	PASS	AC=36;AF=0.750;AN=48;DP=283;FS=0.
44911	chrY	22478922	.	C	T	6604.92	PASS	AC=44;AF=0.957;AN=46;BaseQRankSum=
44912	chrY	22479390	.	G	C	138.47	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44913	chrY	22479418	.	C	T	4589.50	PASS	AC=19;AF=0.339;AN=56;BaseQRankSum=
44914	chrY	22479427	.	A	C	204.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
44915	chrY	22479439	.	C	G	486.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
44916	chrY	22479449	.	T	C	491.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

44917	chrY	22479461	.	T	A	475.04	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44918	chrY	22479476	.	G	A	519.32	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44919	chrY	22479478	.	C	G	123.55	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44920	chrY	22479484	.	A	C	114.32	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44921	chrY	22479500	.	A	C	422.08	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44922	chrY	22479510	.	G	C	192.14	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44923	chrY	22479566	.	A	G	296.30	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44924	chrY	22479589	.	C	G	332.85	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44925	chrY	22479595	.	G	T	339.93	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44926	chrY	22479600	.	A	G	421.02	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44927	chrY	22479601	.	A	G	420.65	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
44928	chrY	22479623	.	G	A	391.41	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
44929	chrY	22479637	.	C	T	367.36	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
44930	chrY	22479746	.	T	C	4392.27	my_snp_filter	AC=34;AF=0.739;AN=46;DP=2
44931	chrY	22479759	.	G	T	2738.35	my_snp_filter	AC=26;AF=0.591;AN=44;DP=2
44932	chrY	22479873	.	G	C	52.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44933	chrY	22479891	.	C	T	133.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44934	chrY	22479905	.	G	T	126.70	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
44935	chrY	22479936	.	A	G	84.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
44936	chrY	22479943	.	A	C	84.26	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
44937	chrY	22479960	.	G	T	84.94	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44938	chrY	22480101	.	A	T	3263.39	PASS	AC=36;AF=0.667;AN=54;BaseQRankSum=
44939	chrY	22480186	.	A	T	1803.68	PASS	AC=28;AF=0.583;AN=48;BaseQRankSum=
44940	chrY	22480393	.	C	A	865.50	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
44941	chrY	22480614	.	C	A	4404.14	PASS	AC=33;AF=0.971;AN=34;BaseQRankSum=
44942	chrY	22480615	.	G	A	4359.17	PASS	AC=33;AF=0.971;AN=34;BaseQRankSum=
44943	chrY	22480645	.	C	G	1333.49	PASS	AC=14;AF=1.00;AN=14;DP=39;FS=0.00
44944	chrY	22480655	.	A	C	821.95	PASS	AC=8;AF=0.800;AN=10;DP=18;FS=0.00
44945	chrY	22480656	.	G	T	736.47	PASS	AC=8;AF=0.800;AN=10;DP=16;FS=0.00
44946	chrY	22480678	.	G	A	202.69	PASS	AC=4;AF=1.00;AN=4;DP=5;FS=0.000;M
44947	chrY	22480679	.	T	G	202.69	PASS	AC=4;AF=1.00;AN=4;DP=5;FS=0.000;M
44948	chrY	22481333	.	G	T	48.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=22;F
44949	chrY	22481344	.	G	C	32.76	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
44950	chrY	22481563	.	G	A	259.51	my_snp_filter	AC=7;AF=0.875;AN=8;BaseQR
44951	chrY	22481616	.	T	A	194.29	my_snp_filter	AC=4;AF=0.333;AN=12;DP=22
44952	chrY	22481631	.	A	T	194.48	my_snp_filter	AC=4;AF=0.333;AN=12;DP=23
44953	chrY	22481632	.	G	A	194.47	my_snp_filter	AC=4;AF=0.333;AN=12;DP=23
44954	chrY	22481673	.	A	T	89.81	my_snp_filter	AC=2;AF=0.250;AN=8;DP=20;
44955	chrY	22481703	.	G	A	60.18	my_snp_filter	AC=2;AF=0.167;AN=12;DP=15
44956	chrY	22483082	.	T	A	749.92	PASS	AC=6;AF=0.188;AN=32;DP=69;FS=0.00
44957	chrY	22483123	.	A	C	1943.06	PASS	AC=20;AF=1.00;AN=20;DP=82;FS=0.00
44958	chrY	22483403	.	T	C	7235.08	PASS	AC=58;AF=1.00;AN=58;DP=259;FS=0.0
44959	chrY	22483449	.	A	T	1177.76	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44960	chrY	22483535	.	G	A	205.95	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
44961	chrY	22483714	.	A	G	658.58	PASS	AC=6;AF=0.111;AN=54;DP=248;FS=0.0
44962	chrY	22483757	.	G	C	567.71	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
44963	chrY	22483887	.	G	A	540.66	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
44964	chrY	22483941	.	A	G	536	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
44965	chrY	22483947	.	A	T	78.22	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44966	chrY	22483966	.	T	A	69.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
44967	chrY	22483988	.	G	T	68.20	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
44968	chrY	22483991	.	C	T	8076.53	my_snp_filter	AC=29;AF=0.518;AN=56;Base
44969	chrY	22483998	.	C	A	2812.43	my_snp_filter	AC=14;AF=0.206;AN=68;Base
44970	chrY	22484004	.	G	C	1404.69	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum=
44971	chrY	22484013	.	T	C	2823.41	my_snp_filter	AC=15;AF=0.221;AN=68;Base
44972	chrY	22484034	.	T	A	39.75	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
44973	chrY	22484037	.	A	C	1551.43	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
44974	chrY	22484060	.	T	G	48.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44975	chrY	22484067	.	C	G	107.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
44976	chrY	22484068	.	A	T	1238.12	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
44977	chrY	22484074	.	A	T	58.42	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
44978	chrY	22484076	.	T	G	2086.09	my_snp_filter	AC=19;AF=0.317;AN=60;Base
44979	chrY	22484092	.	C	T	622.41	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
44980	chrY	22484094	.	G	T	264.01	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
44981	chrY	22484185	.	T	G	4663.38	PASS	AC=38;AF=0.760;AN=50;DP=268;FS=0.
44982	chrY	22484389	.	C	G	34.76	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
44983	chrY	22484456	.	A	T	1514.57	PASS	AC=6;AF=0.103;AN=58;DP=268;FS=0.0
44984	chrY	22485034	.	C	T	440.32	my_snp_filter	AC=6;AF=0.107;AN=56;DP=27
44985	chrY	22485062	.	T	A	336.96	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44986	chrY	22485316	.	G	C	203.08	PASS	AC=2;AF=0.034;AN=58;DP=212;FS=0.0
44987	chrY	22485545	.	A	T	2497.62	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44988	chrY	22485547	.	C	T	2498.45	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
44989	chrY	22485571	.	C	T	97.35	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
44990	chrY	22485597	.	C	T	95.68	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
44991	chrY	22485807	.	A	T	1314.22	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
44992	chrY	22485930	.	T	G	34.46	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=

44993	chrY	22485934	.	G	T	35.07	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44994	chrY	22485942	.	C	T	34.57	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44995	chrY	22486040	.	T	G	735.62	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
44996	chrY	22486050	.	A	G	73.34	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
44997	chrY	22486112	.	G	T	280.36	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
44998	chrY	22486114	.	C	A	41.72	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
44999	chrY	22486125	.	T	A	41.12	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45000	chrY	22486130	.	C	T	40.69	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45001	chrY	22486146	.	C	G	40.93	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45002	chrY	22486351	.	C	G	127.43	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQ
45003	chrY	22486353	.	G	T	89.15	my_snp_filter	AC=2;AF=0.050;AN=40;DP=22
45004	chrY	22486369	.	A	C	495.88	PASS	AC=5;AF=0.114;AN=44;BaseQRankSum=
45005	chrY	22486472	.	C	T	40.98	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45006	chrY	22486490	.	G	A	76.99	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45007	chrY	22486512	.	A	C	37.93	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45008	chrY	22486663	.	A	G	48.10	PASS	AC=2;AF=0.033;AN=60;DP=346;FS=0.0
45009	chrY	22486700	.	T	G	9921.04	PASS	AC=56;AF=0.966;AN=58;BaseQRankSum=
45010	chrY	22486833	.	G	A	76.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45011	chrY	22486864	.	G	A	245.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45012	chrY	22486890	.	T	G	344.63	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
45013	chrY	22486933	.	C	G	665.27	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
45014	chrY	22486949	.	A	G	337.73	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45015	chrY	22487014	.	G	T	3015.66	PASS	AC=23;AF=0.426;AN=54;BaseQRankSum=
45016	chrY	22487017	.	C	G	151.96	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45017	chrY	22487020	.	G	T	36.08	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45018	chrY	22487022	.	T	A	93.76	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
45019	chrY	22487029	.	C	A	340.06	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
45020	chrY	22487037	.	A	T	92.27	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45021	chrY	22487047	.	C	T	92.88	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45022	chrY	22487098	.	T	C	9486.85	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum=
45023	chrY	22487198	.	A	G	19202.74	PASS	AC=50;AF=0.735;AN=68;DP=5
45024	chrY	22487215	.	A	G	24163.89	PASS	AC=68;AF=1.00;AN=68;DP=63
45025	chrY	22487541	.	T	G	52.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45026	chrY	22487546	.	C	T	44.45	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45027	chrY	22487558	.	G	T	41.49	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45028	chrY	22487727	.	T	A	8389.13	PASS	AC=56;AF=0.966;AN=58;BaseQRankSum=
45029	chrY	22487851	.	C	G	277.62	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45030	chrY	22487858	.	T	G	334.07	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
45031	chrY	22487871	.	T	C	46.65	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
45032	chrY	22487873	.	C	A	47.01	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
45033	chrY	22488046	.	C	G	59.75	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
45034	chrY	22488154	.	A	T	35.52	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
45035	chrY	22488155	.	A	T	35.91	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
45036	chrY	22488156	.	G	T	35.79	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
45037	chrY	22488169	.	G	A	115.57	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
45038	chrY	22488170	.	G	A	321.52	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
45039	chrY	22488186	.	T	A	89.66	my_snp_filter	AC=2;AF=0.037;AN=54;BaseQ
45040	chrY	22489215	.	G	C	584.72	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
45041	chrY	22489228	.	G	C	751.73	PASS	AC=6;AF=0.103;AN=58;DP=204;FS=0.0
45042	chrY	22489347	.	C	G	92.28	PASS	AC=2;AF=0.042;AN=48;DP=92;FS=0.00
45043	chrY	22489364	.	C	A	1534.88	PASS	AC=14;AF=0.700;AN=20;BaseQRankSum=
45044	chrY	22489376	.	T	C	1156.32	my_snp_filter	AC=12;AF=0.600;AN=20;BaseQ
45045	chrY	22489378	.	G	T,*	1071.50	my_snp_filter	AC=9,1;AF=0.450,0.050;AN=
45046	chrY	22489382	.	G	T	528.46	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
45047	chrY	22489387	.	G	A	563.47	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
45048	chrY	22489394	.	G	T	651.54	PASS	AC=6;AF=0.429;AN=14;BaseQRankSum=
45049	chrY	22489397	.	T	G	166.10	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
45050	chrY	22489404	.	A	C	93.90	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
45051	chrY	22489405	.	A	G	297.36	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
45052	chrY	22489406	.	G	T	83.44	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
45053	chrY	22489507	.	T	G	58.10	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
45054	chrY	22489589	.	T	A	54	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45055	chrY	22489690	.	A	G	37.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45056	chrY	22489712	.	A	T	34.26	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45057	chrY	22489714	.	A	C	98.37	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45058	chrY	22489715	.	G	C	4695.80	PASS	AC=32;AF=0.533;AN=60;BaseQRankSum=
45059	chrY	22489803	.	G	A	1836.95	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
45060	chrY	22489987	.	A	T	34.68	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
45061	chrY	22489992	.	G	T	32.52	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
45062	chrY	22490003	.	G	T	31.26	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
45063	chrY	22490023	.	C	A	122.94	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
45064	chrY	22490399	.	T	A	3657.23	PASS	AC=40;AF=1.00;AN=40;DP=143;FS=0.0
45065	chrY	22490457	.	G	T	64.49	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
45066	chrY	22490472	.	T	C	55.62	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
45067	chrY	22490530	.	A	G	543.29	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
45068	chrY	22490531	.	G	C	147.17	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ

45069	chrY	22490553	.	G	A	287.11	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
45070	chrY	22490560	.	G	T	332.46	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
45071	chrY	22490572	.	T	A	439.24	my_snp_filter	AC=4;AF=0.091;AN=44;BaseQ
45072	chrY	22490574	.	A	T	59.55	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
45073	chrY	22490585	.	C	A	327.90	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
45074	chrY	22490598	.	C	A	331.83	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
45075	chrY	22490613	.	G	T	63.43	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
45076	chrY	22490614	.	A	T	69.55	my_snp_filter	AC=1;AF=0.022;AN=46;BaseQ
45077	chrY	22490620	.	T	C	67.22	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
45078	chrY	22490651	.	T	G	55.12	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
45079	chrY	22490655	.	C	G	62.56	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45080	chrY	22490659	.	T	A	182.05	my_snp_filter	AC=7;AF=0.167;AN=42;BaseQ
45081	chrY	22490660	.	G	T	50.91	my_snp_filter	AC=2;AF=0.050;AN=40;DP=12
45082	chrY	22490664	.	C	T	51.65	my_snp_filter	AC=2;AF=0.053;AN=38;DP=12
45083	chrY	22490679	.	G	T	74.07	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45084	chrY	22490680	.	T	G	76.27	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45085	chrY	22490686	.	T	C	78.55	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
45086	chrY	22490691	.	G	A	78.70	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
45087	chrY	22491041	.	A	G	870.09	my_snp_filter	AC=12;AF=1.00;AN=12;DP=51
45088	chrY	22491163	.	G	C	297.38	my_snp_filter	AC=4;AF=0.083;AN=48;BaseQ
45089	chrY	22491379	.	A	G	41.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=3;FS
45090	chrY	22491395	.	C	G	41.84	my_snp_filter	AC=2;AF=1.00;AN=2;DP=3;FS
45091	chrY	22498673	.	A	T	121.29	my_snp_filter	AC=3;AF=0.063;AN=48;BaseQ
45092	chrY	22499843	.	A	T	54.14	PASS	AC=2;AF=0.333;AN=6;DP=8;FS=0.000;
45093	chrY	22499865	.	T	G	57.51	PASS	AC=2;AF=0.167;AN=12;DP=12;FS=0.00
45094	chrY	22499881	.	G	C	57.54	PASS	AC=2;AF=0.167;AN=12;DP=12;FS=0.00
45095	chrY	22499885	.	C	A	150.91	PASS	AC=4;AF=0.400;AN=10;DP=12;FS=0.00
45096	chrY	22499902	.	T	A	57.44	PASS	AC=2;AF=0.200;AN=10;DP=13;FS=0.00
45097	chrY	22499903	.	T	C	57	PASS	AC=2;AF=0.167;AN=12;DP=13;FS=0.00
45098	chrY	22502169	.	C	T	42.63	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
45099	chrY	22502171	.	G	T	435.06	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
45100	chrY	22502181	.	A	T	43.71	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
45101	chrY	22502198	.	G	T	331.82	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
45102	chrY	22502210	.	A	T	43.58	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
45103	chrY	22502217	.	G	T	42.81	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
45104	chrY	22502435	.	G	A	59.75	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
45105	chrY	22502514	.	C	A	36.93	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
45106	chrY	22502545	.	A	T	324.32	my_snp_filter	AC=6;AF=0.750;AN=8;BaseQR
45107	chrY	22502563	.	G	T	243.98	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
45108	chrY	22502642	.	C	T	254.45	my_snp_filter	AC=2;AF=0.167;AN=12;BaseQ
45109	chrY	22502655	.	A	T	303.36	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
45110	chrY	22502673	.	G	T	54.80	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
45111	chrY	22502688	.	G	C	66.47	PASS	AC=2;AF=0.250;AN=8;DP=66;FS=0.000
45112	chrY	22502690	.	A	C	133.86	my_snp_filter	AC=1;AF=0.056;AN=18;DP=61
45113	chrY	22502692	.	G	T	274.46	PASS	AC=4;AF=1.00;AN=4;DP=61;FS=0.000;
45114	chrY	22502697	.	G	A	58.35	PASS	AC=2;AF=0.111;AN=18;DP=73;FS=0.00
45115	chrY	22502698	.	G	C	136.14	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
45116	chrY	22502705	.	G	C	134.15	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
45117	chrY	22502716	.	G	T	67.32	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
45118	chrY	22502739	.	G	T	175.49	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45119	chrY	22502748	.	C	T	173.46	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45120	chrY	22502794	.	C	A	77.80	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
45121	chrY	22502804	.	A	T	212.82	my_snp_filter	AC=4;AF=0.083;AN=48;DP=12
45122	chrY	22502819	.	T	A	780.01	my_snp_filter	AC=16;AF=1.00;AN=16;DP=98
45123	chrY	22502823	.	G	T	132.10	my_snp_filter	AC=4;AF=0.095;AN=42;DP=10
45124	chrY	22502832	.	G	C	479.03	my_snp_filter	AC=8;AF=0.444;AN=18;DP=11
45125	chrY	22502841	.	C	G	54.98	my_snp_filter	AC=2;AF=0.053;AN=38;DP=11
45126	chrY	22502842	.	T	C	52.02	my_snp_filter	AC=2;AF=0.048;AN=42;DP=11
45127	chrY	22502926	.	T	G	42.63	my_snp_filter	AC=2;AF=0.091;AN=22;DP=81
45128	chrY	22502989	.	G	T	106.73	PASS	AC=2;AF=0.200;AN=10;DP=100;FS=0.00
45129	chrY	22502993	.	T	G	105.10	PASS	AC=2;AF=0.250;AN=8;DP=97;FS=0.000
45130	chrY	22502994	.	T	C	35.33	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
45131	chrY	22502999	.	T	A	30.16	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
45132	chrY	22503048	.	C	G	136.89	PASS	AC=4;AF=0.200;AN=20;DP=109;FS=0.0
45133	chrY	22503073	.	G	C	121.40	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
45134	chrY	22503075	.	G	A	188.62	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
45135	chrY	22503088	.	A	T	510.31	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
45136	chrY	22503091	.	T	G	40.80	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45137	chrY	22503103	.	G	T	55.58	PASS	AC=2;AF=0.125;AN=16;DP=36;FS=0.00
45138	chrY	22503111	.	G	C	59.27	PASS	AC=2;AF=0.167;AN=12;DP=31;FS=0.00
45139	chrY	22503128	.	A	T	55.31	PASS	AC=2;AF=0.143;AN=14;DP=24;FS=0.00
45140	chrY	22503291	.	G	C	54.59	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
45141	chrY	22503312	.	A	G	46.79	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
45142	chrY	22503330	.	A	T	64.90	my_snp_filter	AC=2;AF=0.500;AN=4;DP=12;
45143	chrY	22504950	.	T	G	35.39	my_snp_filter	AC=1;AF=0.250;AN=4;BaseQR
45144	chrY	22505317	.	A	T	40.21	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ

45145	chrY	22505325	.	G	T	40.22	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
45146	chrY	22505634	.	T	G	165.03	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
45147	chrY	22505641	.	C	G	160.37	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
45148	chrY	22505680	.	G	T	37.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45149	chrY	22505681	.	A	T	170.32	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
45150	chrY	22505700	.	C	G	60.62	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45151	chrY	22505713	.	A	T	39.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45152	chrY	22505719	.	T	A	233.39	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
45153	chrY	22505733	.	T	G	103.07	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
45154	chrY	22505984	.	C	G	35.84	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45155	chrY	22506045	.	C	A	2272.78	PASS	AC=30;AF=0.556;AN=54;BaseQRankSum=
45156	chrY	22506149	.	G	A	4268.42	my_snp_filter	AC=40;AF=1.00;AN=40;BaseQ
45157	chrY	22506170	.	A	C	106.75	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
45158	chrY	22506292	.	A	C	45.76	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45159	chrY	22506300	.	C	G	45.96	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
45160	chrY	22506302	.	A	G	46	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
45161	chrY	22506455	.	A	T	36.68	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45162	chrY	22506458	.	T	C	35.02	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45163	chrY	22506465	.	T	A	35.01	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
45164	chrY	22506466	.	T	C	34.64	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
45165	chrY	22506493	.	A	C	168.98	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
45166	chrY	22506788	.	C	G	778.90	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
45167	chrY	22506807	.	G	C	81.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45168	chrY	22506824	.	G	A	77.13	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45169	chrY	22506851	.	T	A	163.62	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45170	chrY	22506957	.	G	A	326.90	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45171	chrY	22506976	.	T	A	548.37	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45172	chrY	22506983	.	T	C	40.70	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
45173	chrY	22506988	.	G	A	364.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45174	chrY	22507010	.	C	T	49.38	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
45175	chrY	22507014	.	T	G	458.64	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45176	chrY	22507037	.	G	C	730.55	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45177	chrY	22507262	.	G	C	236.83	PASS	AC=2;AF=0.029;AN=70;DP=326;FS=0.0
45178	chrY	22507746	.	C	T	197.60	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45179	chrY	22507755	.	G	C	197.47	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
45180	chrY	22507757	.	T	G	140.59	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
45181	chrY	22507762	.	G	A	152.68	my_snp_filter	AC=3;AF=0.050;AN=60;BaseQ
45182	chrY	22507800	.	C	T	503.71	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
45183	chrY	22507851	.	T	G	88.77	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
45184	chrY	22507865	.	T	C	34.85	my_snp_filter	AC=2;AF=0.030;AN=66;DP=43
45185	chrY	22507909	.	A	G	167.12	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
45186	chrY	22507919	.	C	G	387.67	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
45187	chrY	22507920	.	T	C	49.90	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45188	chrY	22507924	.	G	A	52.20	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
45189	chrY	22507933	.	G	T	46.24	my_snp_filter	AC=2;AF=0.030;AN=66;DP=67
45190	chrY	22507939	.	G	T	47.91	my_snp_filter	AC=2;AF=0.030;AN=66;DP=68
45191	chrY	22507975	.	A	T	141.18	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45192	chrY	22507980	.	T	G	143.41	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45193	chrY	22507990	.	T	A	939.94	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
45194	chrY	22508009	.	G	C	1670.85	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
45195	chrY	22508012	.	T	G	1637.15	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
45196	chrY	22508036	.	G	T	670.81	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
45197	chrY	22508045	.	C	A	44.39	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45198	chrY	22508074	.	C	G	365.33	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
45199	chrY	22508077	.	T	A	201.26	my_snp_filter	AC=4;AF=0.069;AN=58;BaseQ
45200	chrY	22508081	.	G	T	61.41	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
45201	chrY	22508085	.	A	T	53.07	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
45202	chrY	22508324	.	G	T	419.77	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45203	chrY	22508347	.	G	T	1434.67	PASS	AC=8;AF=0.167;AN=48;BaseQRankSum=
45204	chrY	22508367	.	C	A	38.79	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
45205	chrY	22508372	.	T	G	152.84	PASS	AC=2;AF=0.030;AN=66;DP=653;FS=0.0
45206	chrY	22508397	.	A	C	39.84	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
45207	chrY	22508407	.	T	A	350.69	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
45208	chrY	22508420	.	C	A	90.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45209	chrY	22508422	.	T	C	258.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45210	chrY	22508426	.	G	A	300.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45211	chrY	22508427	.	G	T	425.54	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
45212	chrY	22508430	.	A	T	153.26	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45213	chrY	22508440	.	T	C	3137.24	PASS	AC=14;AF=0.500;AN=28;BaseQRankSum=
45214	chrY	22508445	.	A	C	257.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45215	chrY	22508467	.	G	C	1234.94	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
45216	chrY	22508474	.	G	C	2158.20	PASS	AC=10;AF=0.278;AN=36;BaseQRankSum=
45217	chrY	22508488	.	G	A	633.25	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45218	chrY	22508492	.	C	T	197.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45219	chrY	22508496	.	C	T	194.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45220	chrY	22508513	.	G	A	377.68	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=

45221	chrY	22508517	.	T	G	146.36	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45222	chrY	22508522	.	A	T	182.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45223	chrY	22508528	.	A	G	140.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45224	chrY	22508533	.	T	G	145.26	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45225	chrY	22508539	.	G	A	533.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45226	chrY	22508544	.	C	T	513.26	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45227	chrY	22508548	.	A	G	463.26	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
45228	chrY	22508553	.	T	A	831.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45229	chrY	22508554	.	G	A	1316.46	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
45230	chrY	22508556	.	G	C	857.73	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
45231	chrY	22508564	.	C	G,A	8084.29	PASS	AC=28,2;AF=0.467,0.033;AN=60;BaseQ
45232	chrY	22508568	.	T	G,A	1692.28	PASS	AC=12,2;AF=0.176,0.029;AN=68;BaseQ
45233	chrY	22508571	.	A	T	711.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45234	chrY	22508574	.	T	G	5694.36	PASS	AC=22;AF=0.423;AN=52;BaseQRankSum=
45235	chrY	22508580	.	T	G	436.60	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45236	chrY	22508588	.	G	A	116.52	PASS	AC=2;AF=0.030;AN=66;DP=803;FS=0.0
45237	chrY	22508592	.	G	T	145.92	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45238	chrY	22508601	.	C	A	266.26	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
45239	chrY	22508606	.	T	G	140.89	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
45240	chrY	22508621	.	C	T	107.75	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45241	chrY	22508684	.	T	C	35.27	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
45242	chrY	22508691	.	A	C	1342.26	my_snp_filter	AC=14;AF=0.212;AN=66;BaseQ
45243	chrY	22508693	.	T	G	295.06	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45244	chrY	22508698	.	G	T	104.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
45245	chrY	22508699	.	G	T	49.85	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
45246	chrY	22508701	.	G	A	49.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45247	chrY	22508703	.	T	G	558.81	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45248	chrY	22508710	.	A	T	169.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45249	chrY	22508717	.	G	C,*	690.38	PASS	AC=2,9;AF=0.029,0.129;AN=70;BaseQ
45250	chrY	22508720	.	T	C	115.18	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45251	chrY	22508730	.	T	A	53.21	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45252	chrY	22508734	.	C	T	146.64	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45253	chrY	22508738	.	G	A,C	316.03	PASS	AC=4,2;AF=0.057,0.029;AN=70;BaseQ
45254	chrY	22508740	.	T	A	320.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
45255	chrY	22508751	.	G	A	124.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45256	chrY	22508752	.	G	T	48.25	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
45257	chrY	22508799	.	C	A	453.42	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45258	chrY	22508801	.	G	A	220.81	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45259	chrY	22508821	.	T	A	486.37	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
45260	chrY	22508823	.	G	T	206.68	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
45261	chrY	22508824	.	T	G	211.34	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
45262	chrY	22508850	.	G	A	315.30	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
45263	chrY	22508956	.	G	A	236.63	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45264	chrY	22508967	.	G	T	888.23	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
45265	chrY	22508982	.	T	C	468.40	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45266	chrY	22508987	.	G	A	109.41	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
45267	chrY	22508988	.	G	T	214.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45268	chrY	22509006	.	G	A,T	2573.38	PASS	AC=15,1;AF=0.214,0.014;AN=70;BaseQ
45269	chrY	22509009	.	C	T	549.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45270	chrY	22509031	.	A	T	408.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
45271	chrY	22509043	.	A	T	176.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45272	chrY	22509044	.	C	G	316.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45273	chrY	22509045	.	C	A	406.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45274	chrY	22509049	.	G	A	556.75	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45275	chrY	22509051	.	G	A	148.54	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45276	chrY	22509056	.	G	A	204.60	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
45277	chrY	22509064	.	G	T	250.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45278	chrY	22509067	.	C	G	598.27	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
45279	chrY	22509072	.	A	T	186.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45280	chrY	22509073	.	G	T	95.62	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45281	chrY	22509074	.	G	T,C	873.06	PASS	AC=6,4;AF=0.086,0.057;AN=70;BaseQ
45282	chrY	22509077	.	T	A	420.24	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45283	chrY	22509080	.	T	A	50.34	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45284	chrY	22509088	.	G	C	87.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45285	chrY	22509089	.	T	A	80.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45286	chrY	22509092	.	T	G	85.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45287	chrY	22509104	.	A	T,G	880.94	PASS	AC=2,8;AF=0.038,0.154;AN=52;BaseQ
45288	chrY	22509109	.	C	T	131.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45289	chrY	22509113	.	G	A	65.98	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
45290	chrY	22509124	.	G	C	1542.42	PASS	AC=8;AF=0.267;AN=30;BaseQRankSum=
45291	chrY	22509140	.	C	G	42.38	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
45292	chrY	22509145	.	T	A	72.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45293	chrY	22509170	.	C	T	58.47	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
45294	chrY	22509179	.	G	T	685.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
45295	chrY	22509198	.	G	A	121.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45296	chrY	22509202	.	T	A	502.92	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

45297	chrY	22509206	.	A	C,G	3995.05	PASS	AC=17,3;AF=0.250,0.044;AN=68;BaseQ
45298	chrY	22509213	.	G	A	657.88	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
45299	chrY	22509228	.	T	A	190.65	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
45300	chrY	22509229	.	G	A	108.03	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45301	chrY	22509272	.	A	C	42.87	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45302	chrY	22509279	.	G	C	41.66	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
45303	chrY	22509319	.	T	A	113.50	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45304	chrY	22509321	.	C	A	608.02	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
45305	chrY	22509329	.	G	A	282.34	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
45306	chrY	22509402	.	C	T	57.67	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45307	chrY	22509424	.	C	A	57.65	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45308	chrY	22509425	.	C	T	199.33	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
45309	chrY	22509479	.	G	A	40.21	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
45310	chrY	22509487	.	T	G	62.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45311	chrY	22509502	.	G	T	39.56	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45312	chrY	22509529	.	G	T	131.49	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
45313	chrY	22509542	.	G	A	156.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45314	chrY	22509546	.	T	A	73.71	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45315	chrY	22509551	.	G	T	46.86	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
45316	chrY	22509552	.	G	T	54.08	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
45317	chrY	22509554	.	G	T	751.83	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
45318	chrY	22509555	.	A	T	699.02	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
45319	chrY	22509559	.	T	A	185.47	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45320	chrY	22509574	.	C	G	499.74	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
45321	chrY	22509587	.	A	T	256.15	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
45322	chrY	22509593	.	T	A	58.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45323	chrY	22509600	.	G	A	1199.70	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
45324	chrY	22509615	.	T	A	32.19	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
45325	chrY	22509674	.	A	C	741.57	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
45326	chrY	22509746	.	T	C	445.43	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
45327	chrY	22509779	.	G	C	158.14	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
45328	chrY	22509795	.	A	C	539.63	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
45329	chrY	22509799	.	C	A	123.04	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
45330	chrY	22509801	.	G	A	80.86	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
45331	chrY	22509808	.	G	T	67.97	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
45332	chrY	22509823	.	T	G,C	2246.76	my_snp_filter	AC=17,1;AF=0.567,0.033;AN
45333	chrY	22509833	.	C	A	52.23	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
45334	chrY	22509842	.	G	T	192.73	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
45335	chrY	22509845	.	C	A	162.54	my_snp_filter	AC=6;AF=0.176;AN=34;DP=39
45336	chrY	22509846	.	C	A	166.91	my_snp_filter	AC=7;AF=0.206;AN=34;BaseQ
45337	chrY	22509847	.	C	T	374.80	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
45338	chrY	22509859	.	C	T	35.63	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
45339	chrY	22509865	.	G	T	51.56	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
45340	chrY	22509871	.	C	T	49.27	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
45341	chrY	22509907	.	T	A	177.31	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
45342	chrY	22509918	.	G	A	924.42	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
45343	chrY	22509927	.	G	T	207.85	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45344	chrY	22509940	.	T	C	1047.54	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
45345	chrY	22509967	.	G	C	666.68	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
45346	chrY	22509970	.	C	T	238	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45347	chrY	22510009	.	C	T	378.84	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
45348	chrY	22510026	.	C	T	1259.41	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
45349	chrY	22510035	.	T	A	9344.30	PASS	AC=15;AF=0.469;AN=32;BaseQRankSum=
45350	chrY	22510036	.	G	C	665.66	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45351	chrY	22510049	.	G	C	1579.65	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
45352	chrY	22510051	.	T	G	8796.01	PASS	AC=11;AF=0.344;AN=32;BaseQRankSum=
45353	chrY	22510052	.	C	G	10714.57	PASS	AC=12;AF=0.400;AN=30;BaseQ
45354	chrY	22510054	.	G	A	1221.70	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
45355	chrY	22510056	.	G	C	1421.79	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45356	chrY	22510061	.	A	T	227.54	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
45357	chrY	22510062	.	T	C,A	9017.43	PASS	AC=8,5;AF=0.286,0.179;AN=28;BaseQ
45358	chrY	22510063	.	A	G	1390.79	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
45359	chrY	22510068	.	T	G	3804.91	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45360	chrY	22510071	.	A	T	1212.47	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45361	chrY	22510079	.	A	G	527.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
45362	chrY	22510080	.	T	G	153.81	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
45363	chrY	22510088	.	G	A	882.12	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
45364	chrY	22510092	.	G	T	1062.98	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
45365	chrY	22510093	.	T	C	1563.18	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
45366	chrY	22510114	.	T	G	88.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45367	chrY	22510127	.	G	A	2127.25	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
45368	chrY	22510131	.	G	A	83.29	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45369	chrY	22510137	.	G	A	1180.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
45370	chrY	22510138	.	G	C	733.38	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
45371	chrY	22510141	.	T	A	44.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45372	chrY	22510148	.	C	A	3541.44	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=

45373	chrY	22510157	.	T	C	251.07	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
45374	chrY	22510171	.	T	A	3078.87	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
45375	chrY	22510199	.	C	T	65.32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45376	chrY	22510208	.	C	G	286.72	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
45377	chrY	22510211	.	G	C	45.19	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45378	chrY	22510212	.	A	C	1363.66	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
45379	chrY	22510217	.	G	T	84	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
45380	chrY	22510223	.	T	C	94.74	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
45381	chrY	22510227	.	G	A	2425.73	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum
45382	chrY	22510229	.	A	G	299.11	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
45383	chrY	22510257	.	T	C	635.62	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum
45384	chrY	22510268	.	C	G	797.90	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum
45385	chrY	22510271	.	C	A	704.38	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum
45386	chrY	22510278	.	T	A	797.55	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum
45387	chrY	22510291	.	C	A	1040.03	my_snp_filter	AC=5;AF=0.109;AN=46;BaseQ
45388	chrY	22510309	.	T	C	58.01	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45389	chrY	22510337	.	A	G	534.08	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum
45390	chrY	22510345	.	T	C	475.49	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum
45391	chrY	22510363	.	G	A	99.09	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
45392	chrY	22510376	.	G	A,T	245.43	my_snp_filter	AC=3,2;AF=0.048,0.032;AN=
45393	chrY	22510419	.	C	A	1329.72	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45394	chrY	22510424	.	C	A	1381.69	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum
45395	chrY	22510426	.	G	A	77.92	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
45396	chrY	22510448	.	G	T	62.66	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45397	chrY	22510449	.	T	G	2389.13	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45398	chrY	22510450	.	T	G	1966.17	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45399	chrY	22510461	.	C	G	838.11	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
45400	chrY	22510463	.	G	T	64.88	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
45401	chrY	22510475	.	G	A	2965.88	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum
45402	chrY	22510476	.	G	T	1814.40	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum
45403	chrY	22510483	.	C	G	50.02	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
45404	chrY	22510486	.	G	T	1748.46	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45405	chrY	22510487	.	A	T	1777.09	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45406	chrY	22510493	.	T	C	1705.03	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
45407	chrY	22510496	.	C	A	51.18	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
45408	chrY	22510502	.	G	A	389.03	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
45409	chrY	22510519	.	C	T	71.01	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
45410	chrY	22510524	.	T	G	64.33	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
45411	chrY	22510527	.	A	G	70.67	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
45412	chrY	22510528	.	C	G	67.51	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
45413	chrY	22510552	.	G	T	43.39	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45414	chrY	22510558	.	G	C	84.49	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
45415	chrY	22510565	.	C	T	92.85	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
45416	chrY	22510576	.	G	A	53.20	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum
45417	chrY	22510581	.	G	A	716.68	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum
45418	chrY	22510592	.	G	T	937.51	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
45419	chrY	22510630	.	T	G	647.07	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum
45420	chrY	22510642	.	T	C	90.38	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45421	chrY	22510666	.	C	A	85.30	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum
45422	chrY	22510674	.	G	A	132.96	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45423	chrY	22510687	.	C	G	3176.49	PASS	AC=31;AF=0.517;AN=60;BaseQRankSum
45424	chrY	22510692	.	C	G	85.57	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
45425	chrY	22510699	.	G	C	86.60	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45426	chrY	22510702	.	T	A	91.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45427	chrY	22510713	.	G	C	340.77	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
45428	chrY	22510717	.	T	G	438.25	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum
45429	chrY	22510729	.	A	G	473.31	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum
45430	chrY	22510745	.	C	A	139.61	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
45431	chrY	22510747	.	T	C	336.48	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum
45432	chrY	22510752	.	G	A	978.82	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum
45433	chrY	22510756	.	A	G	867.85	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum
45434	chrY	22510762	.	G	C	37.45	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45435	chrY	22510763	.	G	A	164.75	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
45436	chrY	22510765	.	C	G	126.38	my_snp_filter	AC=5;AF=0.081;AN=62;BaseQ
45437	chrY	22510768	.	G	T	157.90	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
45438	chrY	22510781	.	A	G	112.95	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum
45439	chrY	22510812	.	A	C	142.49	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum
45440	chrY	22510831	.	A	C,G	270.74	PASS	AC=2,2;AF=0.031,0.031;AN=64;BaseQ
45441	chrY	22510842	.	G	T	98.56	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45442	chrY	22510850	.	G	A	305.47	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum
45443	chrY	22510893	.	A	G	360.97	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
45444	chrY	22510949	.	T	G	9484.40	my_snp_filter	AC=50;AF=0.962;AN=52;BaseQ
45445	chrY	22510967	.	G	T	70.54	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
45446	chrY	22510984	.	C	A	35.83	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
45447	chrY	22510996	.	C	T	46.13	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
45448	chrY	22511005	.	G	C	45.15	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ

45449	chrY	22511007	.	T	G	41.52	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45450	chrY	22511010	.	G	C	50.69	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
45451	chrY	22511012	.	G	A	40.66	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45452	chrY	22511034	.	A	T	77.76	my_snp_filter	AC=3;AF=0.052;AN=58;BaseQ
45453	chrY	22511044	.	C	T	30.41	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
45454	chrY	22511048	.	A	C	724.26	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
45455	chrY	22511050	.	C	T	1276.26	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
45456	chrY	22511063	.	A	G	58.97	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45457	chrY	22511085	.	A	T	47.20	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45458	chrY	22511089	.	G	T	225.32	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
45459	chrY	22511112	.	T	A	60.83	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45460	chrY	22511115	.	T	G	50.75	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45461	chrY	22511221	.	C	A	46.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45462	chrY	22511234	.	C	T	41.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45463	chrY	22511237	.	T	G	44.66	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
45464	chrY	22511238	.	C	G	266.13	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
45465	chrY	22511246	.	C	T	42.26	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
45466	chrY	22511288	.	T	A	261.84	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45467	chrY	22511323	.	A	G	228.47	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
45468	chrY	22511324	.	C	G	69.74	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45469	chrY	22511402	.	T	C	83.45	my_snp_filter	AC=3;AF=0.054;AN=56;BaseQ
45470	chrY	22511427	.	G	A	239.62	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
45471	chrY	22511471	.	T	C	199.45	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
45472	chrY	22511545	.	A	C	31.85	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
45473	chrY	22511582	.	T	C	567.78	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45474	chrY	22511595	.	C	A	507.83	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
45475	chrY	22511596	.	C	A	507.57	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
45476	chrY	22511597	.	C	T	148.78	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
45477	chrY	22511611	.	G	T	70.38	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45478	chrY	22511612	.	A	T	71.61	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45479	chrY	22511690	.	T	C	75.79	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
45480	chrY	22511703	.	T	G	40.84	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45481	chrY	22511720	.	C	T	34.89	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45482	chrY	22511730	.	C	T	34.39	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
45483	chrY	22511740	.	T	A	30.94	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
45484	chrY	22511744	.	T	A	631.69	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
45485	chrY	22511751	.	G	C	553.60	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45486	chrY	22511752	.	G	T	531.61	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
45487	chrY	22511765	.	G	C	478.82	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
45488	chrY	22511769	.	C	G	385.60	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
45489	chrY	22511787	.	C	G	263.74	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
45490	chrY	22511792	.	G	C	254.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45491	chrY	22511793	.	A	G	252.53	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45492	chrY	22511799	.	C	G	218.40	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45493	chrY	22511802	.	G	A	149.11	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45494	chrY	22511963	.	G	A	918.30	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
45495	chrY	22512029	.	G	C	98.26	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
45496	chrY	22512064	.	G	A	89.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
45497	chrY	22512092	.	G	A	98.34	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
45498	chrY	22512104	.	A	G	439.19	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
45499	chrY	22512106	.	G	T	71.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45500	chrY	22512112	.	A	T	111.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45501	chrY	22512115	.	G	T	263.67	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
45502	chrY	22512118	.	T	C	114.30	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
45503	chrY	22512128	.	C	A	80.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45504	chrY	22512132	.	T	A	112.70	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45505	chrY	22512162	.	G	C	214.36	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45506	chrY	22512393	.	G	T	42.02	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
45507	chrY	22512401	.	T	C	40.68	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
45508	chrY	22512519	.	T	C	706.21	PASS	AC=8;AF=0.125;AN=64;BaseQRankSum=
45509	chrY	22512537	.	C	G	89.52	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45510	chrY	22512549	.	G	C	462.88	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
45511	chrY	22512552	.	G	T	35.85	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45512	chrY	22512573	.	G	A	595.34	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45513	chrY	22512574	.	G	C	594.93	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
45514	chrY	22512588	.	G	C	162.66	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
45515	chrY	22512604	.	G	A	138.51	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
45516	chrY	22512606	.	G	T	796.53	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
45517	chrY	22512613	.	A	G	909.01	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
45518	chrY	22512628	.	A	C	414.24	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
45519	chrY	22512634	.	C	A	32.71	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45520	chrY	22512635	.	G	A	33.36	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45521	chrY	22512638	.	G	C	35.78	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45522	chrY	22512739	.	G	T	206.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45523	chrY	22512760	.	C	A	186.66	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
45524	chrY	22512764	.	G	C	200.45	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=

45525	chrY	22512769	.	T	G	75.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45526	chrY	22512770	.	C	T	75.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45527	chrY	22512777	.	C	T	44.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45528	chrY	22512780	.	G	C	102.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45529	chrY	22512947	.	A	T	20506.04	PASS	AC=52;AF=0.743;AN=70;DP=8
45530	chrY	22513463	.	G	A	430.67	PASS	AC=2;AF=0.029;AN=70;DP=364;FS=0.0
45531	chrY	22513464	.	G	C	430.69	PASS	AC=2;AF=0.029;AN=70;DP=366;FS=0.0
45532	chrY	22514013	.	A	T	3391.26	PASS	AC=44;AF=0.710;AN=62;DP=279;FS=0.0
45533	chrY	22514081	.	T	G	7410.09	PASS	AC=58;AF=1.00;AN=58;DP=265;FS=0.0
45534	chrY	22517413	.	A	C	338.24	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
45535	chrY	22520131	.	T	G	40.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45536	chrY	22520132	.	T	C	40.81	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45537	chrY	22523027	.	G	A	1330.21	PASS	AC=6;AF=0.086;AN=70;DP=434;FS=0.0
45538	chrY	22524111	.	A	T	2196.57	PASS	AC=32;AF=0.516;AN=62;DP=212;FS=0.0
45539	chrY	22529438	.	T	C	1913.33	PASS	AC=12;AF=0.316;AN=38;DP=180;FS=0.0
45540	chrY	22530830	.	T	C	2611.86	PASS	AC=18;AF=1.00;AN=18;DP=164;FS=0.0
45541	chrY	22531740	.	C	T	61.24	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45542	chrY	22532827	.	T	G	275.03	PASS	AC=2;AF=0.111;AN=18;DP=162;FS=0.0
45543	chrY	22534494	.	T	C	3732.86	PASS	AC=18;AF=1.00;AN=18;DP=168;FS=0.0
45544	chrY	22534816	.	C	T	1040.74	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
45545	chrY	22535291	.	T	G	3452.45	PASS	AC=17;AF=0.850;AN=20;BaseQRankSum=
45546	chrY	22535399	.	A	G	32.05	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
45547	chrY	22542059	.	T	C	951.63	PASS	AC=6;AF=0.273;AN=22;DP=171;FS=0.0
45548	chrY	22542418	.	C	T	384.02	PASS	AC=2;AF=0.111;AN=18;DP=141;FS=0.0
45549	chrY	22544997	.	A	G	261.56	PASS	AC=4;AF=0.063;AN=64;DP=262;FS=0.0
45550	chrY	22545697	.	C	T	43.29	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
45551	chrY	22545709	.	A	G	31.69	PASS	AC=2;AF=0.100;AN=20;DP=190;FS=0.0
45552	chrY	22555918	.	A	G	624.85	PASS	AC=6;AF=0.086;AN=70;DP=356;FS=0.0
45553	chrY	22559001	.	C	T	1277.18	PASS	AC=6;AF=0.091;AN=66;DP=273;FS=0.0
45554	chrY	22561754	.	T	C	186.04	PASS	AC=2;AF=0.029;AN=68;DP=334;FS=0.0
45555	chrY	22562370	.	T	C	640.32	PASS	AC=6;AF=0.125;AN=48;DP=172;FS=0.0
45556	chrY	22571221	.	C	T	1618.33	PASS	AC=6;AF=0.086;AN=70;DP=568;FS=0.0
45557	chrY	22571892	.	A	G	1080.53	PASS	AC=6;AF=0.086;AN=70;DP=356;FS=0.0
45558	chrY	22575539	.	A	G	3884.64	PASS	AC=46;AF=0.719;AN=64;DP=316;FS=0.0
45559	chrY	22576141	.	T	C	811.40	PASS	AC=6;AF=0.088;AN=68;DP=364;FS=0.0
45560	chrY	22576525	.	T	C	170.53	PASS	AC=6;AF=0.107;AN=56;DP=169;FS=0.0
45561	chrY	22577650	.	G	T	1976.95	PASS	AC=41;AF=0.683;AN=60;BaseQRankSum=
45562	chrY	22582305	.	A	G	566.26	PASS	AC=6;AF=0.086;AN=70;DP=480;FS=0.0
45563	chrY	22584021	.	C	T	1117.09	PASS	AC=6;AF=0.091;AN=66;DP=311;FS=0.0
45564	chrY	22586243	.	A	T	5008.44	PASS	AC=44;AF=0.647;AN=68;DP=321;FS=0.0
45565	chrY	22586506	.	A	G	707.42	PASS	AC=6;AF=0.086;AN=70;DP=300;FS=0.0
45566	chrY	22590593	.	C	T	633.01	PASS	AC=6;AF=0.103;AN=58;DP=222;FS=0.0
45567	chrY	22591468	.	C	T	3141.97	PASS	AC=20;AF=1.00;AN=20;BaseQRankSum=
45568	chrY	22593311	.	A	C	886.75	PASS	AC=6;AF=0.300;AN=20;DP=202;FS=0.0
45569	chrY	22601068	.	C	T	5528.26	PASS	AC=56;AF=1.00;AN=56;DP=212;FS=0.0
45570	chrY	22605460	.	A	T	41.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45571	chrY	22605469	.	A	T	41.48	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45572	chrY	22605604	.	A	T	706.72	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
45573	chrY	22607404	.	G	A	5336.72	PASS	AC=50;AF=0.735;AN=68;DP=342;FS=0.0
45574	chrY	22610139	.	C	A	237.35	PASS	AC=2;AF=0.029;AN=68;DP=338;FS=0.0
45575	chrY	22610289	.	C	T	1256.52	PASS	AC=6;AF=0.086;AN=70;DP=337;FS=0.0
45576	chrY	22613137	.	A	G	477.34	PASS	AC=6;AF=0.086;AN=70;DP=406;FS=0.0
45577	chrY	22615443	.	T	A	831.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45578	chrY	22621843	.	T	G	4521.06	PASS	AC=22;AF=1.00;AN=22;BaseQRankSum=
45579	chrY	22623275	.	C	T	44.69	PASS	AC=2;AF=0.100;AN=20;DP=207;FS=0.0
45580	chrY	22624781	.	G	A	1035.04	PASS	AC=6;AF=0.086;AN=70;DP=469;FS=0.0
45581	chrY	22625398	.	G	A	1263.60	PASS	AC=6;AF=0.088;AN=68;DP=337;FS=0.0
45582	chrY	22629676	.	C	T	412.41	PASS	AC=2;AF=0.030;AN=66;DP=357;FS=0.0
45583	chrY	22631393	.	A	G	1088.17	PASS	AC=6;AF=0.088;AN=68;DP=510;FS=0.0
45584	chrY	22632849	.	C	A	311.54	PASS	AC=2;AF=0.029;AN=70;DP=420;FS=0.0
45585	chrY	22633178	.	G	A	979.43	PASS	AC=6;AF=0.088;AN=68;DP=325;FS=0.0
45586	chrY	22634108	.	G	A	85.03	PASS	AC=2;AF=0.029;AN=68;DP=283;FS=0.0
45587	chrY	22635285	.	G	C	99.66	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
45588	chrY	22635289	.	A	G	100.63	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
45589	chrY	22635291	.	C	T	100.50	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
45590	chrY	22635296	.	T	C	57.45	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
45591	chrY	22635342	.	C	T	41.42	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
45592	chrY	22635526	.	C	T	93.49	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
45593	chrY	22635854	.	C	T	706.78	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
45594	chrY	22636048	.	A	T	31.57	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
45595	chrY	22637056	.	C	T	718.10	my_snp_filter	AC=6;AF=0.333;AN=18;DP=14
45596	chrY	22653363	.	T	C	6803.62	PASS	AC=38;AF=0.559;AN=68;DP=443;FS=0.0
45597	chrY	22663747	.	G	A	701.28	PASS	AC=6;AF=0.086;AN=70;DP=474;FS=0.0
45598	chrY	22665224	.	G	C	5060.39	PASS	AC=44;AF=0.710;AN=62;DP=314;FS=0.0
45599	chrY	22665262	.	A	G	2464.76	PASS	AC=12;AF=0.182;AN=66;DP=424;FS=0.0
45600	chrY	22668273	.	A	G	1386.95	PASS	AC=6;AF=0.300;AN=20;DP=177;FS=0.0

45601	chrY	22669502	.	T	C	3024.41	PASS	AC=38;AF=0.679;AN=56;DP=258;FS=0.0
45602	chrY	22672686	.	C	T	464.27	PASS	AC=2;AF=0.029;AN=70;DP=518;FS=0.0
45603	chrY	22673903	.	G	T	7085.20	PASS	AC=54;AF=0.818;AN=66;DP=337;FS=0.0
45604	chrY	22676997	.	A	T	759.68	PASS	AC=2;AF=0.029;AN=68;DP=499;FS=0.0
45605	chrY	22679601	.	C	G	978.32	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.0
45606	chrY	22680249	.	C	T	451.66	PASS	AC=6;AF=0.088;AN=68;DP=407;FS=0.0
45607	chrY	22686897	.	A	G	6070.42	PASS	AC=40;AF=0.571;AN=70;DP=414;FS=0.0
45608	chrY	22687547	.	T	A	12783.93	PASS	AC=66;AF=1.00;AN=66;BaseQ
45609	chrY	22695953	.	C	G	1292.19	PASS	AC=6;AF=0.333;AN=18;DP=176;FS=0.0
45610	chrY	22701340	.	C	T	252.80	PASS	AC=2;AF=0.029;AN=70;DP=417;FS=0.0
45611	chrY	22707285	.	G	T	262.84	PASS	AC=2;AF=0.029;AN=70;DP=363;FS=0.0
45612	chrY	22707685	.	C	T	1380.76	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
45613	chrY	22711460	.	T	A	7807.08	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
45614	chrY	22711592	.	A	G	3138.65	PASS	AC=40;AF=0.625;AN=64;DP=252;FS=0.0
45615	chrY	22712146	.	T	C	249.21	PASS	AC=2;AF=0.029;AN=70;DP=303;FS=0.0
45616	chrY	22713870	.	T	C	65	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
45617	chrY	22713879	.	C	T	60.01	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
45618	chrY	22713884	.	A	G	58.92	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
45619	chrY	22714457	.	C	T	1036.51	PASS	AC=6;AF=0.094;AN=64;DP=263;FS=0.0
45620	chrY	22714533	.	G	A	11395.58	PASS	AC=47;AF=0.712;AN=66;BaseQ
45621	chrY	22721522	.	T	C	1066.14	PASS	AC=6;AF=0.088;AN=68;DP=520;FS=0.0
45622	chrY	22722580	.	C	T	7484.11	PASS	AC=62;AF=1.00;AN=62;DP=241;FS=0.0
45623	chrY	22724508	.	C	T	5023.30	PASS	AC=42;AF=0.636;AN=66;DP=334;FS=0.0
45624	chrY	22724652	.	G	A	45.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45625	chrY	22726491	.	C	T	3447.57	PASS	AC=46;AF=0.719;AN=64;DP=263;FS=0.0
45626	chrY	22731750	.	C	T	41.52	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45627	chrY	22731751	.	G	T	41.56	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
45628	chrY	22732173	.	A	G	30.72	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45629	chrY	22733000	.	T	G	255.46	PASS	AC=2;AF=0.029;AN=70;DP=539;FS=0.0
45630	chrY	22733758	.	G	C	14925.91	PASS	AC=68;AF=1.00;AN=68;DP=52
45631	chrY	22734966	.	T	C	30.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45632	chrY	22739301	.	A	G	920.21	PASS	AC=6;AF=0.086;AN=70;DP=340;FS=0.0
45633	chrY	22739367	.	C	T	7981.19	PASS	AC=63;AF=0.984;AN=64;BaseQRankSum=
45634	chrY	22746189	.	T	C	468.71	PASS	AC=6;AF=0.088;AN=68;DP=466;FS=0.0
45635	chrY	22750583	.	A	C	7005.01	PASS	AC=64;AF=1.00;AN=64;DP=321;FS=0.0
45636	chrY	22755855	.	G	A	5341.93	PASS	AC=50;AF=0.806;AN=62;DP=247;FS=0.0
45637	chrY	22757027	.	T	A	1618.18	PASS	AC=6;AF=0.333;AN=18;DP=177;FS=0.0
45638	chrY	22760568	.	T	C	40.71	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45639	chrY	22761041	.	C	T	5327.34	PASS	AC=34;AF=0.531;AN=64;DP=397;FS=0.0
45640	chrY	22762746	.	A	G	355.10	PASS	AC=6;AF=0.086;AN=70;DP=278;FS=0.0
45641	chrY	22766040	.	A	C	40.27	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45642	chrY	22766048	.	A	T	40.09	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45643	chrY	22771827	.	C	G	763.45	PASS	AC=4;AF=0.059;AN=68;DP=423;FS=0.0
45644	chrY	22775162	.	C	A	1780.76	PASS	AC=30;AF=0.625;AN=48;DP=181;FS=0.0
45645	chrY	22777196	.	G	A	1178.09	PASS	AC=6;AF=0.250;AN=24;DP=167;FS=0.0
45646	chrY	22790643	.	A	G	310.43	PASS	AC=2;AF=0.100;AN=20;DP=166;FS=0.0
45647	chrY	22795491	.	T	C	310.58	PASS	AC=2;AF=0.029;AN=70;DP=452;FS=0.0
45648	chrY	22796697	.	C	T	13968.94	PASS	AC=68;AF=1.00;AN=68;DP=46
45649	chrY	22801607	.	T	C	925.51	PASS	AC=6;AF=0.086;AN=70;DP=371;FS=0.0
45650	chrY	22802310	.	T	C	247.74	PASS	AC=2;AF=0.029;AN=68;DP=339;FS=0.0
45651	chrY	22803996	.	T	A	273.59	PASS	AC=2;AF=0.100;AN=20;DP=125;FS=0.0
45652	chrY	22804447	.	A	T	504.17	PASS	AC=6;AF=0.097;AN=62;DP=198;FS=0.0
45653	chrY	22808192	.	T	C	407.99	PASS	AC=2;AF=0.029;AN=70;DP=540;FS=0.0
45654	chrY	22808370	.	T	C	13207.89	PASS	AC=65;AF=0.985;AN=66;BaseQ
45655	chrY	22808725	.	G	A	590.84	PASS	AC=6;AF=0.086;AN=70;DP=393;FS=0.0
45656	chrY	22811080	.	C	G	98.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45657	chrY	22811086	.	G	C	95.40	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45658	chrY	22811094	.	A	G	54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45659	chrY	22812328	.	G	A	37.02	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45660	chrY	22812816	.	C	T	508.22	PASS	AC=6;AF=0.086;AN=70;DP=349;FS=0.0
45661	chrY	22813126	.	A	G	30.94	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45662	chrY	22813130	.	T	C	31.19	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45663	chrY	22813138	.	G	T	34.20	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45664	chrY	22813143	.	A	G	34.16	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45665	chrY	22815525	.	T	A	286.71	PASS	AC=4;AF=0.286;AN=14;DP=101;FS=0.0
45666	chrY	22818009	.	G	A	1381.76	PASS	AC=6;AF=0.086;AN=70;DP=646;FS=0.0
45667	chrY	22818257	.	A	G	126.10	PASS	AC=2;AF=0.029;AN=70;DP=469;FS=0.0
45668	chrY	22818334	.	T	C	15520.92	PASS	AC=70;AF=1.00;AN=70;DP=52
45669	chrY	22829376	.	G	A	1606.80	PASS	AC=6;AF=0.091;AN=66;DP=292;FS=0.0
45670	chrY	22832145	.	C	T	153.41	PASS	AC=2;AF=0.029;AN=70;DP=366;FS=0.0
45671	chrY	22840002	.	G	A	97.63	PASS	AC=2;AF=0.029;AN=70;DP=397;FS=0.0
45672	chrY	22840561	.	C	T	492.75	PASS	AC=2;AF=0.100;AN=20;DP=177;FS=0.0
45673	chrY	22843909	.	A	G	954.23	PASS	AC=6;AF=0.125;AN=48;DP=155;FS=0.0
45674	chrY	22847061	.	G	A	5786.26	PASS	AC=44;AF=0.647;AN=68;DP=374;FS=0.0
45675	chrY	22851850	.	T	G	1623.24	PASS	AC=6;AF=0.333;AN=18;DP=155;FS=0.0
45676	chrY	22857384	.	G	A	304.44	PASS	AC=2;AF=0.029;AN=70;DP=603;FS=0.0

45677	chrY	22859357	.	G	T	477.17	PASS	AC=2;AF=0.029;AN=70;DP=643;FS=0.0
45678	chrY	22866703	.	C	G	2352.71	PASS	AC=26;AF=0.684;AN=38;DP=196;FS=0.
45679	chrY	22868272	.	C	G	117.03	PASS	AC=6;AF=0.120;AN=50;DP=101;FS=0.0
45680	chrY	22868386	.	G	A	886.33	PASS	AC=6;AF=0.086;AN=70;DP=379;FS=0.0
45681	chrY	22872115	.	A	G	612.43	PASS	AC=6;AF=0.333;AN=18;DP=149;FS=0.0
45682	chrY	22872345	.	C	T	973.91	PASS	AC=6;AF=0.086;AN=70;DP=406;FS=0.0
45683	chrY	22872584	.	G	A	57.86	PASS	AC=2;AF=0.038;AN=52;DP=189;FS=0.0
45684	chrY	22878613	.	T	C	147.40	PASS	AC=2;AF=0.040;AN=50;DP=205;FS=0.0
45685	chrY	22879633	.	T	G	1187.18	PASS	AC=6;AF=0.091;AN=66;DP=349;FS=0.0
45686	chrY	22879666	.	T	C	433.38	PASS	AC=2;AF=0.030;AN=66;DP=342;FS=0.0
45687	chrY	22880173	.	A	G	863.94	PASS	AC=6;AF=0.086;AN=70;DP=274;FS=0.0
45688	chrY	22881230	.	G	A	432.87	PASS	AC=2;AF=0.063;AN=32;DP=138;FS=0.0
45689	chrY	22889018	.	A	G	14166.01	PASS	AC=68;AF=1.00;AN=68;DP=45
45690	chrY	22896829	.	T	G	698.42	PASS	AC=6;AF=0.088;AN=68;DP=369;FS=0.0
45691	chrY	22898216	.	T	A	2809.76	PASS	AC=12;AF=0.171;AN=70;DP=387;FS=0.
45692	chrY	22899557	.	C	T	1096.35	PASS	AC=6;AF=0.086;AN=70;DP=641;FS=0.0
45693	chrY	22905919	.	C	T	13404.22	PASS	AC=40;AF=0.571;AN=70;DP=6
45694	chrY	22908145	.	A	G	30.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45695	chrY	22908153	.	A	G	30.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45696	chrY	22913918	.	A	G	5959.89	PASS	AC=38;AF=0.559;AN=68;DP=421;FS=0.
45697	chrY	22919926	.	T	C	902.04	PASS	AC=6;AF=0.088;AN=68;DP=381;FS=0.0
45698	chrY	22920347	.	T	C	392.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45699	chrY	22921768	.	G	A	907.14	PASS	AC=6;AF=0.086;AN=70;DP=614;FS=0.0
45700	chrY	22922653	.	C	T	176.59	PASS	AC=2;AF=0.030;AN=66;DP=304;FS=0.0
45701	chrY	22922771	.	T	G	128.01	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
45702	chrY	22923622	.	G	A	10893.84	PASS	AC=52;AF=0.743;AN=70;DP=4
45703	chrY	22932680	.	C	A	358.13	PASS	AC=2;AF=0.029;AN=70;DP=662;FS=0.0
45704	chrY	22934109	.	G	A	4338.16	PASS	AC=26;AF=1.00;AN=26;DP=173;FS=0.0
45705	chrY	22937380	.	C	A	4194.54	PASS	AC=42;AF=0.700;AN=60;DP=291;FS=0.
45706	chrY	22961662	.	G	T	40.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45707	chrY	22961805	.	T	A	39.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45708	chrY	22961809	.	T	A	37.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45709	chrY	22961834	.	T	A	33.80	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45710	chrY	22961844	.	T	A	33.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45711	chrY	22961902	.	G	A	339.73	PASS	AC=4;AF=0.059;AN=68;DP=363;FS=0.0
45712	chrY	22962800	.	A	G	478.64	PASS	AC=6;AF=0.091;AN=66;DP=235;FS=0.0
45713	chrY	22963137	.	G	T	1273.01	PASS	AC=6;AF=0.086;AN=70;DP=599;FS=0.0
45714	chrY	22965855	.	A	G	36.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45715	chrY	22965856	.	T	C	36.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45716	chrY	22968083	.	C	T	1274.47	PASS	AC=6;AF=0.103;AN=58;DP=206;FS=0.0
45717	chrY	22969002	.	G	A	1728.99	PASS	AC=6;AF=0.130;AN=46;DP=212;FS=0.0
45718	chrY	22969654	.	C	T	1162.92	PASS	AC=6;AF=0.086;AN=70;DP=575;FS=0.0
45719	chrY	22971697	.	A	T	1337.20	PASS	AC=6;AF=0.333;AN=18;DP=187;FS=0.0
45720	chrY	22972047	.	A	T	81.32	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
45721	chrY	22972057	.	G	C	78.35	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45722	chrY	22972064	.	A	G	81.31	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
45723	chrY	22972112	.	T	A	51.33	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45724	chrY	22972117	.	C	T	51.37	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45725	chrY	22972428	.	T	C	311.56	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
45726	chrY	22972724	.	A	G	284.49	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
45727	chrY	22972726	.	C	T	284.45	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
45728	chrY	22972738	.	C	G	116.41	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
45729	chrY	22976194	.	C	T	1158.14	PASS	AC=6;AF=0.086;AN=70;DP=525;FS=0.0
45730	chrY	22978346	.	T	G	2125.13	PASS	AC=38;AF=0.679;AN=56;DP=223;FS=0.
45731	chrY	22978713	.	C	T	1996.35	PASS	AC=26;AF=0.684;AN=38;DP=192;FS=0.0
45732	chrY	22980532	.	G	A	361.60	PASS	AC=2;AF=0.029;AN=68;DP=527;FS=0.0
45733	chrY	22984334	.	C	T	3032.79	PASS	AC=12;AF=0.545;AN=22;DP=189;FS=0.
45734	chrY	22986822	.	C	G	3951.86	PASS	AC=18;AF=1.00;AN=18;DP=155;FS=0.0
45735	chrY	23002348	.	G	A	521.38	PASS	AC=6;AF=0.100;AN=60;DP=134;FS=0.0
45736	chrY	23004857	.	G	T	365.76	PASS	AC=2;AF=0.063;AN=32;DP=189;FS=0.0
45737	chrY	23017569	.	G	A	40.12	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
45738	chrY	23018063	.	C	T	31.22	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
45739	chrY	23018071	.	G	C	65.46	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45740	chrY	23018861	.	G	C	1035.79	PASS	AC=6;AF=0.091;AN=66;DP=247;FS=0.0
45741	chrY	23020085	.	A	T	12463.92	PASS	AC=50;AF=0.735;AN=68;DP=5
45742	chrY	23022822	.	C	T	47.46	PASS	AC=2;AF=0.029;AN=70;DP=273;FS=0.0
45743	chrY	23022826	.	T	A	47.11	PASS	AC=2;AF=0.030;AN=66;DP=265;FS=0.0
45744	chrY	23025804	.	G	A	1567.40	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.0
45745	chrY	23031841	.	G	A	12337.75	PASS	AC=48;AF=0.727;AN=66;DP=5
45746	chrY	23033704	.	C	T	4571.15	PASS	AC=40;AF=0.690;AN=58;BaseQRankSum=
45747	chrY	23035132	.	A	G	7782.19	PASS	AC=66;AF=1.00;AN=66;DP=272;FS=0.0
45748	chrY	23037631	.	T	C	198.99	PASS	AC=2;AF=0.029;AN=70;DP=329;FS=0.0
45749	chrY	23039152	.	G	A	714.04	PASS	AC=6;AF=0.188;AN=32;BaseQRankSum=
45750	chrY	23039883	.	C	T	96.93	PASS	AC=2;AF=0.029;AN=70;DP=389;FS=0.0
45751	chrY	23039960	.	G	A	386.18	PASS	AC=2;AF=0.029;AN=70;DP=629;FS=0.0
45752	chrY	23040647	.	G	T	9835.17	PASS	AC=56;AF=0.824;AN=68;DP=412;FS=0.

45753	chrY	23040950	.	C	G	541.47	PASS	AC=6;AF=0.107;AN=56;DP=167;FS=0.0
45754	chrY	23048169	.	G	A	512.44	PASS	AC=2;AF=0.029;AN=68;DP=524;FS=0.0
45755	chrY	23048289	.	C	T	158.01	PASS	AC=4;AF=0.074;AN=54;DP=195;FS=0.0
45756	chrY	23048312	.	C	T	1084.65	PASS	AC=6;AF=0.143;AN=42;DP=181;FS=0.0
45757	chrY	23050063	.	C	T	1730.67	PASS	AC=6;AF=0.086;AN=70;DP=648;FS=0.0
45758	chrY	23050456	.	G	A	1230.18	PASS	AC=6;AF=0.333;AN=18;DP=165;FS=0.0
45759	chrY	23053201	.	C	T	31.40	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45760	chrY	23059222	.	C	T	1257.12	PASS	AC=6;AF=0.086;AN=70;DP=564;FS=0.0
45761	chrY	23060037	.	G	C	43.64	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45762	chrY	23060043	.	T	C	43.43	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45763	chrY	23060044	.	G	A	43.42	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45764	chrY	23063131	.	C	T	869.29	PASS	AC=6;AF=0.086;AN=70;DP=338;FS=0.0
45765	chrY	23065012	.	G	C	42.73	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
45766	chrY	23065013	.	A	G	42.73	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
45767	chrY	23067165	.	C	G	508.20	PASS	AC=2;AF=0.029;AN=70;DP=531;FS=0.0
45768	chrY	23067494	.	C	T	891.06	PASS	AC=6;AF=0.100;AN=60;DP=223;FS=0.0
45769	chrY	23067770	.	A	G	8198.87	PASS	AC=50;AF=0.735;AN=68;DP=404;FS=0.0
45770	chrY	23069732	.	T	A	1115.24	PASS	AC=6;AF=0.086;AN=70;DP=257;FS=0.0
45771	chrY	23070802	.	G	T	64.72	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
45772	chrY	23070804	.	A	T	63.02	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
45773	chrY	23070852	.	C	T	611	PASS	AC=6;AF=0.100;AN=60;DP=150;FS=0.0
45774	chrY	23074232	.	G	A	376.40	PASS	AC=2;AF=0.029;AN=70;DP=463;FS=0.0
45775	chrY	23076279	.	T	C	1439.99	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
45776	chrY	23076374	.	A	C	62.49	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
45777	chrY	23076481	.	T	C	102.51	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
45778	chrY	23076597	.	C	A	299.22	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
45779	chrY	23076600	.	T	C	300.04	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
45780	chrY	23076634	.	A	G	207.30	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45781	chrY	23076638	.	C	T	208.52	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45782	chrY	23076653	.	T	C	207.77	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45783	chrY	23076655	.	T	G	213.07	PASS	AC=2;AF=0.100;AN=20;BaseQRankSum=
45784	chrY	23080679	.	C	T	8653.84	PASS	AC=48;AF=0.727;AN=66;DP=386;FS=0.0
45785	chrY	23081795	.	T	A	127.05	PASS	AC=2;AF=0.029;AN=68;DP=309;FS=0.0
45786	chrY	23083518	.	G	T	444.02	PASS	AC=2;AF=0.111;AN=18;DP=171;FS=0.0
45787	chrY	23084724	.	G	T	130.94	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
45788	chrY	23084726	.	C	T	42.78	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
45789	chrY	23084728	.	C	T	43.06	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
45790	chrY	23084730	.	A	T	104.82	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
45791	chrY	23084734	.	C	T	127.43	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
45792	chrY	23085361	.	T	G	1168.21	PASS	AC=6;AF=0.333;AN=18;DP=140;FS=0.0
45793	chrY	23085375	.	G	C	3480.87	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum=
45794	chrY	23093654	.	C	A	497.75	PASS	AC=2;AF=0.100;AN=20;DP=181;FS=0.0
45795	chrY	23094357	.	G	A	516.27	PASS	AC=2;AF=0.032;AN=62;DP=224;FS=0.0
45796	chrY	23095826	.	T	A	294.76	PASS	AC=2;AF=0.100;AN=20;DP=157;FS=0.0
45797	chrY	23096006	.	C	A	1123.50	PASS	AC=6;AF=0.300;AN=20;DP=162;FS=0.0
45798	chrY	23099672	.	T	G	90.43	PASS	AC=2;AF=0.030;AN=66;DP=230;FS=0.0
45799	chrY	23099744	.	A	C	2552.97	PASS	AC=20;AF=1.00;AN=20;DP=137;FS=0.0
45800	chrY	23100153	.	T	C	832.18	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
45801	chrY	23100301	.	C	T	51.64	PASS	AC=2;AF=0.091;AN=22;DP=158;FS=0.0
45802	chrY	23100309	.	G	A	51.67	PASS	AC=2;AF=0.091;AN=22;DP=154;FS=0.0
45803	chrY	23101591	.	G	A	1427.18	PASS	AC=6;AF=0.333;AN=18;DP=167;FS=0.0
45804	chrY	23104079	.	C	T	4601.97	PASS	AC=20;AF=1.00;AN=20;BaseQRankSum=
45805	chrY	23104376	.	T	C	79.31	PASS	AC=2;AF=0.029;AN=70;DP=299;FS=0.0
45806	chrY	23105677	.	G	T	640.96	PASS	AC=6;AF=0.088;AN=68;DP=372;FS=0.0
45807	chrY	23108694	.	A	C	4377.86	PASS	AC=18;AF=1.00;AN=18;DP=173;FS=0.0
45808	chrY	23109543	.	T	C	652.54	PASS	AC=6;AF=0.300;AN=20;DP=151;FS=0.0
45809	chrY	23111098	.	C	G	1040.75	PASS	AC=6;AF=0.300;AN=20;DP=151;FS=0.0
45810	chrY	23112844	.	G	A	1141.27	PASS	AC=6;AF=0.086;AN=70;DP=556;FS=0.0
45811	chrY	23115653	.	G	A	1855.11	PASS	AC=6;AF=0.086;AN=70;DP=514;FS=0.0
45812	chrY	23119372	.	T	C	1287.97	PASS	AC=6;AF=0.086;AN=70;DP=318;FS=0.0
45813	chrY	23122114	.	G	T	1350.57	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
45814	chrY	23123286	.	T	C	40.57	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45815	chrY	23123295	.	A	G	37.44	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45816	chrY	23123316	.	G	A	34.54	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45817	chrY	23123319	.	G	T	31.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45818	chrY	23123320	.	T	C	31.68	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45819	chrY	23123327	.	T	C	32.07	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45820	chrY	23123333	.	T	C	31.79	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
45821	chrY	23124367	.	T	G	15873.95	PASS	AC=66;AF=1.00;AN=66;DP=52
45822	chrY	23124396	.	A	G	11536.84	PASS	AC=48;AF=0.727;AN=66;BaseQ
45823	chrY	23124403	.	T	C	43.01	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45824	chrY	23127578	.	A	T	2250.76	PASS	AC=34;AF=0.739;AN=46;DP=162;FS=0.0
45825	chrY	23134510	.	G	A	939.32	PASS	AC=6;AF=0.086;AN=70;DP=553;FS=0.0
45826	chrY	23134896	.	T	C	16394.90	PASS	AC=70;AF=1.00;AN=70;BaseQ
45827	chrY	23135044	.	C	G	727.18	PASS	AC=6;AF=0.086;AN=70;DP=480;FS=0.0
45828	chrY	23135484	.	G	A	829.77	PASS	AC=6;AF=0.086;AN=70;DP=295;FS=0.0

45829	chrY	23137792	.	C	G	1021.79	PASS	AC=6;AF=0.086;AN=70;DP=302;FS=0.0
45830	chrY	23139617	.	G	T	2478.20	PASS	AC=6;AF=0.086;AN=70;DP=450;FS=0.0
45831	chrY	23139618	.	G	T	2478.67	PASS	AC=6;AF=0.088;AN=68;DP=443;FS=0.0
45832	chrY	23140567	.	C	T	254	PASS	AC=2;AF=0.029;AN=68;DP=324;FS=0.0
45833	chrY	23144558	.	T	A	8050.06	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum
45834	chrY	23145908	.	A	C	1638.58	PASS	AC=6;AF=0.086;AN=70;DP=387;FS=0.0
45835	chrY	23148259	.	G	T	5388.29	PASS	AC=42;AF=0.636;AN=66;DP=354;FS=0.0
45836	chrY	23150167	.	A	G	10962.76	PASS	AC=50;AF=0.735;AN=68;DP=5
45837	chrY	23153798	.	A	G	1061.62	PASS	AC=6;AF=0.088;AN=68;DP=286;FS=0.0
45838	chrY	23154209	.	A	G	2888.66	PASS	AC=12;AF=0.171;AN=70;DP=360;FS=0.0
45839	chrY	23154882	.	A	G	31.04	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
45840	chrY	23158264	.	C	G	14381.26	PASS	AC=52;AF=0.743;AN=70;DP=6
45841	chrY	23158619	.	T	C	905.83	PASS	AC=6;AF=0.086;AN=70;DP=493;FS=0.0
45842	chrY	23158930	.	C	T	1280.71	PASS	AC=6;AF=0.091;AN=66;DP=344;FS=0.0
45843	chrY	23159113	.	T	C	1251.89	PASS	AC=6;AF=0.086;AN=70;DP=316;FS=0.0
45844	chrY	23162853	.	C	A	752.53	PASS	AC=2;AF=0.029;AN=70;DP=589;FS=0.0
45845	chrY	23163723	.	A	G	1324.88	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
45846	chrY	23165423	.	C	A	1182.01	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
45847	chrY	23168047	.	G	A	829.66	PASS	AC=6;AF=0.300;AN=20;DP=134;FS=0.0
45848	chrY	23170963	.	C	T	1163.07	my_snp_filter	AC=6;AF=0.333;AN=18;DP=17
45849	chrY	23172091	.	A	G	2038.07	my_snp_filter	AC=16;AF=0.889;AN=18;Base
45850	chrY	23185557	.	T	C	30.60	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
45851	chrY	23185632	.	A	G	18483.73	PASS	AC=52;AF=0.743;AN=70;DP=7
45852	chrY	23185774	.	G	A	1311.35	PASS	AC=6;AF=0.086;AN=70;DP=384;FS=0.0
45853	chrY	23186892	.	T	C	1193.69	PASS	AC=6;AF=0.086;AN=70;DP=543;FS=0.0
45854	chrY	23188390	.	C	G	1291.34	PASS	AC=6;AF=0.086;AN=70;DP=352;FS=0.0
45855	chrY	23189290	.	C	T	1147.80	PASS	AC=6;AF=0.086;AN=70;DP=659;FS=0.0
45856	chrY	23190007	.	G	C	2792.72	PASS	AC=30;AF=0.500;AN=60;DP=304;FS=0.0
45857	chrY	23190611	.	C	A	2108.98	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
45858	chrY	23192199	.	G	T	275.23	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum
45859	chrY	23192205	.	T	C	269.23	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum
45860	chrY	23192208	.	G	A	274.90	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum
45861	chrY	23195635	.	G	T	339.41	PASS	AC=4;AF=0.063;AN=64;DP=220;FS=0.0
45862	chrY	23196355	.	T	C	1663.04	PASS	AC=12;AF=0.188;AN=64;DP=177;FS=0.0
45863	chrY	23200606	.	G	A	1639.17	PASS	AC=6;AF=0.086;AN=70;DP=475;FS=0.0
45864	chrY	23202551	.	G	C	3977.97	PASS	AC=20;AF=1.00;AN=20;DP=171;FS=0.0
45865	chrY	23204221	.	G	A	13333.77	PASS	AC=46;AF=0.657;AN=70;DP=6
45866	chrY	23206909	.	C	G	650.46	PASS	AC=2;AF=0.029;AN=68;DP=331;FS=0.0
45867	chrY	23206915	.	A	G	650.61	PASS	AC=2;AF=0.029;AN=68;DP=302;FS=0.0
45868	chrY	23208284	.	G	A	1561.45	PASS	AC=12;AF=0.214;AN=56;DP=149;FS=0.0
45869	chrY	23211770	.	T	G	4342.86	PASS	AC=18;AF=1.00;AN=18;BaseQRankSum
45870	chrY	23212043	.	T	G	2622.18	PASS	AC=6;AF=0.333;AN=18;DP=171;FS=0.0
45871	chrY	23212048	.	C	G	2712.21	PASS	AC=6;AF=0.333;AN=18;DP=174;FS=0.0
45872	chrY	23212049	.	T	G	2712.21	PASS	AC=6;AF=0.333;AN=18;DP=175;FS=0.0
45873	chrY	23225335	.	T	C	309.17	PASS	AC=2;AF=0.029;AN=70;DP=741;FS=0.0
45874	chrY	23228218	.	C	A	972.94	my_snp_filter	AC=6;AF=0.300;AN=20;DP=11
45875	chrY	23229198	.	G	A	1225.10	PASS	AC=6;AF=0.250;AN=24;DP=148;FS=0.0
45876	chrY	23230053	.	C	G	629.19	PASS	AC=6;AF=0.333;AN=18;DP=158;FS=0.0
45877	chrY	23230641	.	G	C	1152.18	PASS	AC=6;AF=0.333;AN=18;DP=164;FS=0.0
45878	chrY	23231258	.	G	A	601.05	PASS	AC=2;AF=0.111;AN=18;DP=165;FS=0.0
45879	chrY	23233272	.	A	T	819.47	PASS	AC=6;AF=0.088;AN=68;DP=355;FS=0.0
45880	chrY	23237055	.	T	C	996.36	PASS	AC=4;AF=0.057;AN=70;DP=700;FS=0.0
45881	chrY	23238985	.	C	G	13129.08	PASS	AC=58;AF=0.829;AN=70;DP=5
45882	chrY	23239861	.	C	G	907.32	PASS	AC=6;AF=0.086;AN=70;DP=671;FS=0.0
45883	chrY	23242935	.	C	G	17949.88	PASS	AC=70;AF=1.00;AN=70;DP=61
45884	chrY	23249196	.	A	G	913.96	PASS	AC=6;AF=0.086;AN=70;DP=468;FS=0.0
45885	chrY	23254299	.	C	T	1550.76	PASS	AC=6;AF=0.086;AN=70;DP=696;FS=0.0
45886	chrY	23254960	.	G	A	1318.38	PASS	AC=6;AF=0.088;AN=68;DP=522;FS=0.0
45887	chrY	23257819	.	T	G	6070.24	PASS	AC=56;AF=1.00;AN=56;BaseQRankSum
45888	chrY	23258051	.	G	T	57.54	PASS	AC=4;AF=0.061;AN=66;DP=233;FS=0.0
45889	chrY	23258160	.	A	T	1695.39	PASS	AC=6;AF=0.091;AN=66;DP=214;FS=0.0
45890	chrY	23265651	.	G	T	668.69	PASS	AC=6;AF=0.097;AN=62;DP=225;FS=0.0
45891	chrY	23268915	.	A	G	1124.01	PASS	AC=6;AF=0.086;AN=70;DP=327;FS=0.0
45892	chrY	23283239	.	G	A	36.98	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
45893	chrY	23286394	.	T	C	732.18	PASS	AC=6;AF=0.333;AN=18;DP=149;FS=0.0
45894	chrY	23292231	.	C	T	493.11	PASS	AC=6;AF=0.088;AN=68;DP=339;FS=0.0
45895	chrY	23294247	.	G	C	5255.13	PASS	AC=44;AF=0.786;AN=56;DP=295;FS=0.0
45896	chrY	23294948	.	T	C	11497.91	PASS	AC=52;AF=0.743;AN=70;DP=5
45897	chrY	23295435	.	A	G	7176.15	PASS	AC=50;AF=0.806;AN=62;DP=322;FS=0.0
45898	chrY	23299538	.	C	T	101.26	PASS	AC=4;AF=0.286;AN=14;DP=195;FS=0.0
45899	chrY	23299542	.	T	A	99.47	PASS	AC=4;AF=0.118;AN=34;DP=194;FS=0.0
45900	chrY	23299545	.	C	T	52.85	PASS	AC=4;AF=0.105;AN=38;DP=191;FS=0.0
45901	chrY	23299547	.	C	G	52.21	PASS	AC=4;AF=0.111;AN=36;DP=187;FS=0.0
45902	chrY	23299549	.	C	T	49.19	PASS	AC=4;AF=0.118;AN=34;DP=183;FS=0.0
45903	chrY	23301174	.	C	T	1111.60	PASS	AC=6;AF=0.086;AN=70;DP=517;FS=0.0
45904	chrY	23311265	.	T	C	97.16	PASS	AC=2;AF=0.143;AN=14;DP=62;FS=0.0

45905	chrY	23314471	.	C	A	1333.40	PASS	AC=6;AF=0.086;AN=70;DP=383;FS=0.0
45906	chrY	23315961	.	C	T	323.84	PASS	AC=4;AF=0.222;AN=18;DP=76;FS=0.00
45907	chrY	23319226	.	A	G	663.01	PASS	AC=4;AF=0.222;AN=18;DP=166;FS=0.0
45908	chrY	23328431	.	A	G	1079.37	PASS	AC=6;AF=0.086;AN=70;DP=714;FS=0.0
45909	chrY	23336162	.	T	A	265.36	PASS	AC=2;AF=0.029;AN=70;DP=515;FS=0.0
45910	chrY	23342709	.	A	C	12608.91	PASS	AC=66;AF=1.00;AN=66;DP=41
45911	chrY	23354909	.	A	C	12486.43	PASS	AC=69;AF=0.986;AN=70;Base
45912	chrY	23357626	.	A	G	308.11	PASS	AC=2;AF=0.029;AN=70;DP=672;FS=0.0
45913	chrY	23379254	.	A	G	19358.97	PASS	AC=68;AF=1.00;AN=68;DP=64
45914	chrY	23381961	.	G	C	1160.83	PASS	AC=6;AF=0.158;AN=38;DP=195;FS=0.0
45915	chrY	23382337	.	A	C	1109.75	PASS	AC=6;AF=0.115;AN=52;DP=180;FS=0.0
45916	chrY	23388830	.	T	A	10210.46	PASS	AC=48;AF=0.727;AN=66;DP=5
45917	chrY	23389596	.	C	T	71.17	PASS	AC=2;AF=0.045;AN=44;DP=135;FS=0.0
45918	chrY	23398533	.	A	G	788.71	PASS	AC=6;AF=0.167;AN=36;DP=168;FS=0.0
45919	chrY	23403749	.	A	G	12715.93	PASS	AC=70;AF=1.00;AN=70;BaseQ
45920	chrY	23406293	.	C	A	768.89	PASS	AC=6;AF=0.086;AN=70;DP=470;FS=0.0
45921	chrY	23412275	.	T	C	156.16	PASS	AC=2;AF=0.029;AN=68;DP=402;FS=0.0
45922	chrY	23423267	.	C	T	1071.37	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.0
45923	chrY	23428833	.	G	T	449.96	PASS	AC=4;AF=0.059;AN=68;DP=528;FS=0.0
45924	chrY	23430285	.	C	T	7157.49	PASS	AC=52;AF=0.813;AN=64;DP=339;FS=0.0
45925	chrY	23431541	.	G	A	4081.33	PASS	AC=32;AF=1.00;AN=32;DP=159;FS=0.0
45926	chrY	23445426	.	C	T	1208.23	PASS	AC=26;AF=0.591;AN=44;DP=170;FS=0.0
45927	chrY	23452965	.	C	T	5663.21	PASS	AC=54;AF=1.00;AN=54;BaseQRankSum=
45928	chrY	23459693	.	G	C	66.22	PASS	AC=2;AF=0.031;AN=64;DP=214;FS=0.0
45929	chrY	23461630	.	A	T	591.67	PASS	AC=4;AF=0.059;AN=68;DP=342;FS=0.0
45930	chrY	23462665	.	T	C	15344.72	PASS	AC=52;AF=0.743;AN=70;DP=6
45931	chrY	23463736	.	G	T	31.28	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45932	chrY	23464235	.	A	G	295.62	PASS	AC=2;AF=0.029;AN=70;DP=377;FS=0.0
45933	chrY	23467316	.	G	T	505.25	PASS	AC=2;AF=0.029;AN=70;DP=643;FS=0.0
45934	chrY	23468987	.	T	C	3780.66	PASS	AC=26;AF=0.371;AN=70;DP=426;FS=0.0
45935	chrY	23476015	.	T	G	161.87	PASS	AC=6;AF=0.111;AN=54;DP=195;FS=0.0
45936	chrY	23476034	.	T	G	97.79	PASS	AC=2;AF=0.048;AN=42;BaseQRankSum=
45937	chrY	23476936	.	T	G,A	22161.96	PASS	AC=62,6;AF=0.912,0.088;AN
45938	chrY	23477687	.	C	T	320.81	PASS	AC=4;AF=0.061;AN=66;DP=301;FS=0.0
45939	chrY	23478898	.	C	T	151.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45940	chrY	23479535	.	T	C	747.83	PASS	AC=6;AF=0.086;AN=70;DP=498;FS=0.0
45941	chrY	23481449	.	C	T	4474.84	PASS	AC=36;AF=0.545;AN=66;DP=361;FS=0.0
45942	chrY	23488146	.	A	G	41.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45943	chrY	23488169	.	T	C	41.22	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
45944	chrY	23489203	.	T	C	25840.90	PASS	AC=70;AF=1.00;AN=70;BaseQ
45945	chrY	23490290	.	C	T	1354.82	PASS	AC=6;AF=0.088;AN=68;DP=607;FS=0.0
45946	chrY	23494307	.	G	A	1314.84	PASS	AC=6;AF=0.086;AN=70;DP=416;FS=0.0
45947	chrY	23497113	.	T	C	115.51	PASS	AC=2;AF=0.029;AN=70;DP=565;FS=0.0
45948	chrY	23497646	.	A	C	823.49	PASS	AC=6;AF=0.088;AN=68;DP=422;FS=0.0
45949	chrY	23501736	.	C	T	182.20	PASS	AC=2;AF=0.029;AN=70;DP=843;FS=0.0
45950	chrY	23511453	.	A	G	34.01	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
45951	chrY	23512530	.	C	T	142.34	PASS	AC=8;AF=0.308;AN=26;DP=148;FS=0.0
45952	chrY	23514275	.	G	C	1536.87	PASS	AC=6;AF=0.107;AN=56;DP=213;FS=0.0
45953	chrY	23514526	.	T	A	1057.03	PASS	AC=6;AF=0.086;AN=70;DP=483;FS=0.0
45954	chrY	23515071	.	A	G	3573.60	PASS	AC=42;AF=0.636;AN=66;DP=278;FS=0.0
45955	chrY	23516532	.	C	G	53.90	PASS	AC=2;AF=0.067;AN=30;DP=179;FS=0.0
45956	chrY	23516548	.	G	C	50.67	PASS	AC=2;AF=0.059;AN=34;DP=187;FS=0.0
45957	chrY	23520037	.	G	C	356.87	PASS	AC=7;AF=0.350;AN=20;BaseQRankSum=
45958	chrY	23520057	.	C	A	153.98	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
45959	chrY	23521336	.	A	G	1522.18	PASS	AC=6;AF=0.333;AN=18;DP=191;FS=0.0
45960	chrY	23530416	.	T	C	201.49	PASS	AC=4;AF=0.063;AN=64;DP=226;FS=0.0
45961	chrY	23533739	.	C	A	352.82	PASS	AC=2;AF=0.029;AN=70;DP=303;FS=0.0
45962	chrY	23545476	.	T	G	8466.53	PASS	AC=31;AF=0.500;AN=62;BaseQRankSum=
45963	chrY	23545477	.	A	G	8759.80	PASS	AC=31;AF=0.500;AN=62;BaseQRankSum=
45964	chrY	23547020	.	G	A	410.66	PASS	AC=2;AF=0.029;AN=70;DP=661;FS=0.0
45965	chrY	23550924	.	C	A	7843.95	PASS	AC=54;AF=0.818;AN=66;BaseQRankSum=
45966	chrY	23552740	.	A	C	889.69	PASS	AC=19;AF=0.500;AN=38;BaseQRankSum=
45967	chrY	23553006	.	C	T	28666.22	PASS	AC=52;AF=0.743;AN=70;DP=1
45968	chrY	23554711	.	C	T	3588.78	PASS	AC=42;AF=0.700;AN=60;DP=266;FS=0.0
45969	chrY	23560169	.	G	C	8166.77	PASS	AC=46;AF=0.657;AN=70;DP=419;FS=0.0
45970	chrY	23566654	.	G	T	839.83	PASS	AC=6;AF=0.088;AN=68;DP=393;FS=0.0
45971	chrY	23566954	.	T	C	1121.18	PASS	AC=6;AF=0.086;AN=70;DP=552;FS=0.0
45972	chrY	23568995	.	A	G	3982.37	PASS	AC=34;AF=1.00;AN=34;DP=148;FS=0.0
45973	chrY	23570975	.	C	T	1713.96	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45974	chrY	23570978	.	G	C	1714.03	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
45975	chrY	23573825	.	G	C	1451.10	PASS	AC=6;AF=0.086;AN=70;DP=512;FS=0.0
45976	chrY	23581979	.	A	T	37.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45977	chrY	23581987	.	G	A	37.22	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45978	chrY	23581991	.	T	G	37.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
45979	chrY	23582264	.	T	G	163.38	PASS	AC=2;AF=0.029;AN=70;DP=429;FS=0.0
45980	chrY	23582451	.	T	C	394.77	PASS	AC=2;AF=0.029;AN=68;DP=377;FS=0.0

45981	chrY	23584070	.	A	G	30.52	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
45982	chrY	23590198	.	G	A	403.33	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
45983	chrY	23591456	.	T	A	2275.45	PASS	AC=12;AF=0.171;AN=70;DP=599;FS=0.
45984	chrY	23594099	.	G	C	361.73	PASS	AC=2;AF=0.029;AN=70;DP=510;FS=0.0
45985	chrY	23595017	.	C	G	848.42	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
45986	chrY	23596923	.	T	G	874.31	PASS	AC=6;AF=0.167;AN=36;DP=163;FS=0.0
45987	chrY	23600700	.	T	C	1225.28	PASS	AC=10;AF=0.455;AN=22;DP=138;FS=0.
45988	chrY	23605622	.	C	T	1145.64	PASS	AC=6;AF=0.086;AN=70;DP=510;FS=0.0
45989	chrY	23608341	.	G	C	326.24	PASS	AC=2;AF=0.029;AN=70;DP=432;FS=0.0
45990	chrY	23617006	.	G	A	2668.55	PASS	AC=12;AF=0.171;AN=70;DP=662;FS=0
45991	chrY	23617893	.	T	G	1039.55	PASS	AC=6;AF=0.086;AN=70;DP=516;FS=0.0
45992	chrY	23621548	.	C	T	818.46	PASS	AC=6;AF=0.086;AN=70;DP=437;FS=0.0
45993	chrY	23627363	.	G	A	1420.11	PASS	AC=6;AF=0.086;AN=70;DP=706;FS=0.0
45994	chrY	23627949	.	T	C	900.44	PASS	AC=6;AF=0.086;AN=70;DP=393;FS=0.0
45995	chrY	23629298	.	G	A	957.73	PASS	AC=6;AF=0.094;AN=64;DP=286;FS=0.0
45996	chrY	23631629	.	A	C	25589.89	PASS	AC=70;AF=1.00;AN=70;BaseQ
45997	chrY	23634362	.	G	A	1532.49	PASS	AC=6;AF=0.086;AN=70;DP=591;FS=0.0
45998	chrY	23636750	.	C	T	13997.07	PASS	AC=52;AF=0.743;AN=70;DP=5
45999	chrY	23637491	.	G	A	12014.31	PASS	AC=46;AF=0.657;AN=70;DP=5
46000	chrY	23639224	.	G	A	1202.06	my_snp_filter	AC=6;AF=0.120;AN=50;DP=18
46001	chrY	23648856	.	C	T	780.54	PASS	AC=6;AF=0.088;AN=68;DP=348;FS=0.0
46002	chrY	23650701	.	A	C	1118.06	PASS	AC=6;AF=0.088;AN=68;DP=292;FS=0.0
46003	chrY	23655112	.	A	G	15133.90	PASS	AC=70;AF=1.00;AN=70;DP=47
46004	chrY	23655813	.	G	C	791.91	my_snp_filter	AC=14;AF=0.538;AN=26;DP=7
46005	chrY	23672302	.	A	C	153.94	my_snp_filter	AC=4;AF=0.400;AN=10;BaseQ
46006	chrY	23672310	.	G	C	240.56	my_snp_filter	AC=1;AF=0.125;AN=8;BaseQR
46007	chrY	23702825	.	A	G	415.78	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
46008	chrY	23710001	.	G	A	45.28	my_snp_filter	AC=2;AF=0.056;AN=36;DP=11
46009	chrY	23729951	.	T	C	16448.70	PASS	AC=58;AF=0.829;AN=70;DP=6
46010	chrY	23732148	.	G	A	184.82	PASS	AC=2;AF=0.029;AN=70;DP=583;FS=0.0
46011	chrY	23736615	.	A	T	1282.87	PASS	AC=6;AF=0.086;AN=70;DP=378;FS=0.0
46012	chrY	23740943	.	C	T	1292.80	PASS	AC=6;AF=0.086;AN=70;DP=716;FS=0.0
46013	chrY	23741141	.	A	T	1688.01	PASS	AC=6;AF=0.086;AN=70;DP=668;FS=0.0
46014	chrY	23749005	.	C	T	763	PASS	AC=6;AF=0.086;AN=70;DP=821;FS=0.0
46015	chrY	23754859	.	C	T	779.36	PASS	AC=2;AF=0.029;AN=68;DP=736;FS=0.0
46016	chrY	23755132	.	G	A	1408.91	PASS	AC=6;AF=0.086;AN=70;DP=760;FS=0.0
46017	chrY	23761675	.	A	C	6629.76	PASS	AC=20;AF=0.400;AN=50;DP=576;FS=0.
46018	chrY	23764923	.	C	A	1471.29	PASS	AC=6;AF=0.086;AN=70;DP=709;FS=0.0
46019	chrY	23765556	.	A	G	2436.96	PASS	AC=12;AF=0.171;AN=70;DP=783;FS=0.
46020	chrY	23767955	.	G	A	1669.23	PASS	AC=6;AF=0.086;AN=70;DP=634;FS=0.0
46021	chrY	23768077	.	G	T	2311.92	PASS	AC=6;AF=0.086;AN=70;DP=758;FS=0.0
46022	chrY	23768635	.	G	T	20255.18	PASS	AC=46;AF=0.657;AN=70;Base
46023	chrY	23769373	.	A	G	15728.01	PASS	AC=50;AF=0.735;AN=68;Base
46024	chrY	23778216	.	A	G	50.91	PASS	AC=2;AF=0.063;AN=32;DP=148;FS=0.0
46025	chrY	23785261	.	C	G	3399.83	PASS	AC=38;AF=0.559;AN=68;DP=307;FS=0.
46026	chrY	23791459	.	T	C	623.44	PASS	AC=6;AF=0.086;AN=70;DP=438;FS=0.0
46027	chrY	23791591	.	A	G	31.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46028	chrY	23791592	.	T	G	31.66	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46029	chrY	23791596	.	C	T	31.86	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46030	chrY	23791602	.	A	G	31.75	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46031	chrY	23791604	.	G	C	31.75	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46032	chrY	23791605	.	C	A	32.03	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46033	chrY	23791628	.	T	G	43.67	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46034	chrY	23791631	.	C	T	40.92	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46035	chrY	23791645	.	T	C	43.63	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46036	chrY	23791649	.	C	T	46.91	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46037	chrY	23791655	.	G	T	49.85	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46038	chrY	23791658	.	T	C	49.95	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46039	chrY	23791674	.	G	A	49.91	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46040	chrY	23791682	.	G	A	46.68	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46041	chrY	23791690	.	G	C	40.66	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46042	chrY	23791698	.	C	G	37.46	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
46043	chrY	23792820	.	A	T	316.67	PASS	AC=2;AF=0.029;AN=70;DP=405;FS=0.0
46044	chrY	23793562	.	T	A	3619.34	PASS	AC=36;AF=0.545;AN=66;DP=316;FS=6.
46045	chrY	23793568	.	C	T	30.52	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46046	chrY	23793571	.	G	A	30.18	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46047	chrY	23793612	.	C	T	111.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
46048	chrY	23793620	.	A	G	117.94	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
46049	chrY	23793653	.	A	G	114.08	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46050	chrY	23793654	.	C	G	112.25	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46051	chrY	23793655	.	A	G	112.36	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46052	chrY	23793657	.	T	G	113.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46053	chrY	23793658	.	C	T	114.77	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46054	chrY	23793667	.	A	G	114.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46055	chrY	23793669	.	T	G	115.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46056	chrY	23793682	.	G	T	115.40	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ

46057	chrY	23793688	.	A	G	112.95	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
46058	chrY	23793696	.	C	A	101.44	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
46059	chrY	23793697	.	T	A	104.59	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
46060	chrY	23793701	.	C	T	100.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
46061	chrY	23793716	.	C	A	54.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46062	chrY	23793718	.	C	T	54.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46063	chrY	23793749	.	A	C	97.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46064	chrY	23793757	.	C	T	52.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46065	chrY	23793848	.	T	C	36.07	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46066	chrY	23793862	.	G	A	49.23	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46067	chrY	23793873	.	G	C	143.19	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46068	chrY	23793876	.	T	C	134.66	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46069	chrY	23793898	.	C	A	341.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46070	chrY	23793906	.	T	G	367.14	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46071	chrY	23793910	.	T	C	408.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
46072	chrY	23793919	.	C	T	61.52	my_snp_filter	AC=2;AF=0.029;AN=70;DP=47
46073	chrY	23800808	.	A	G	8898.36	PASS	AC=48;AF=0.727;AN=66;DP=490;FS=0.
46074	chrY	23804795	.	C	T	420.86	PASS	AC=6;AF=0.097;AN=62;DP=217;FS=0.0
46075	chrY	23808440	.	G	A	298.36	PASS	AC=2;AF=0.029;AN=70;DP=574;FS=0.0
46076	chrY	23811761	.	G	T	14460.37	PASS	AC=69;AF=0.986;AN=70;BaseQ
46077	chrY	23813856	.	A	G	12404.02	my_snp_filter	AC=70;AF=1.00;AN=
46078	chrY	23813973	.	C	T	487.11	PASS	AC=2;AF=0.029;AN=70;DP=601;FS=0.0
46079	chrY	23818600	.	T	C	737.32	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
46080	chrY	23821790	.	C	T	11722.50	PASS	AC=56;AF=0.824;AN=68;DP=5
46081	chrY	23824207	.	T	A	921.63	PASS	AC=6;AF=0.120;AN=50;DP=165;FS=0.0
46082	chrY	23826024	.	A	T	89.42	PASS	AC=2;AF=0.029;AN=70;DP=610;FS=0.0
46083	chrY	23830627	.	G	T	8698.18	PASS	AC=46;AF=0.657;AN=70;DP=446;FS=0.
46084	chrY	23832815	.	T	C	477.15	PASS	AC=8;AF=0.667;AN=12;DP=34;FS=0.00
46085	chrY	23832820	.	T	C	322.61	PASS	AC=6;AF=0.375;AN=16;DP=29;FS=0.00
46086	chrY	23832825	.	T	C	105.91	PASS	AC=2;AF=0.167;AN=12;DP=24;FS=0.00
46087	chrY	23835014	.	T	A	7699.13	PASS	AC=56;AF=0.824;AN=68;DP=365;FS=0.
46088	chrY	23842109	.	C	T	1402.12	PASS	AC=26;AF=0.591;AN=44;DP=214;FS=0.
46089	chrY	23845409	.	C	T	13967.92	PASS	AC=68;AF=1.00;AN=68;DP=45
46090	chrY	23850545	.	C	G	214.27	PASS	AC=2;AF=0.029;AN=70;DP=519;FS=0.0
46091	chrY	23856842	.	G	A	2973.51	PASS	AC=36;AF=0.600;AN=60;DP=235;FS=0.
46092	chrY	23857504	.	T	C	534.67	PASS	AC=6;AF=0.086;AN=70;DP=415;FS=0.0
46093	chrY	23858398	.	C	T	1985.59	PASS	AC=6;AF=0.086;AN=70;DP=690;FS=0.0
46094	chrY	23860481	.	T	A	91.97	PASS	AC=2;AF=0.042;AN=48;DP=173;FS=0.0
46095	chrY	23867279	.	A	G	7183.61	PASS	AC=46;AF=0.657;AN=70;DP=445;FS=0.
46096	chrY	23870139	.	C	G	23981.75	PASS	AC=58;AF=0.829;AN=70;BaseQ
46097	chrY	23872560	.	A	G	8678.07	PASS	AC=44;AF=0.647;AN=68;DP=485;FS=0.
46098	chrY	23876105	.	C	G	1258.25	PASS	AC=6;AF=0.086;AN=70;DP=416;FS=0.0
46099	chrY	23881784	.	G	A	921.30	PASS	AC=6;AF=0.091;AN=66;DP=272;FS=0.0
46100	chrY	23888931	.	C	T	1813.54	PASS	AC=26;AF=0.591;AN=44;DP=202;FS=0.
46101	chrY	23889060	.	G	A	1261.81	PASS	AC=6;AF=0.097;AN=62;DP=221;FS=0.0
46102	chrY	23889996	.	G	T	1262.90	PASS	AC=6;AF=0.086;AN=70;DP=396;FS=0.0
46103	chrY	23890429	.	A	T	884.56	PASS	AC=6;AF=0.086;AN=70;DP=535;FS=0.0
46104	chrY	23893846	.	T	A	10047.53	my_snp_filter	AC=50;AF=0.735;AN=
46105	chrY	23896971	.	T	C	211.47	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
46106	chrY	23897027	.	G	A	3671.78	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
46107	chrY	23897031	.	G	T	3722.08	PASS	AC=14;AF=0.259;AN=54;BaseQRankSum=
46108	chrY	23897087	.	C	T	4604.07	PASS	AC=27;AF=0.409;AN=66;BaseQRankSum=
46109	chrY	23897175	.	G	C	9640.28	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
46110	chrY	23897195	.	G	A	10467.63	PASS	AC=30;AF=0.429;AN=70;BaseQ
46111	chrY	23897203	.	T	A	10402.78	PASS	AC=30;AF=0.429;AN=70;BaseQ
46112	chrY	23897221	.	G	C	9374.77	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
46113	chrY	23897261	.	T	C	7433.47	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
46114	chrY	23897294	.	T	C	54.85	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
46115	chrY	23897295	.	A	G	52.86	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
46116	chrY	23897320	.	G	A	5408.56	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46117	chrY	23897322	.	T	A	5414.19	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46118	chrY	23897324	.	G	A	5461.81	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46119	chrY	23897358	.	C	A	4629.44	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
46120	chrY	23897407	.	G	A	13396.77	PASS	AC=32;AF=0.457;AN=70;BaseQ
46121	chrY	23897458	.	A	G	16784.81	PASS	AC=32;AF=0.471;AN=68;BaseQ
46122	chrY	23897501	.	G	A	286.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46123	chrY	23897532	.	G	T	11484.79	PASS	AC=33;AF=0.485;AN=68;BaseQ
46124	chrY	23897553	.	C	G	10418.38	PASS	AC=33;AF=0.471;AN=70;BaseQ
46125	chrY	23897564	.	T	C	11848.49	PASS	AC=29;AF=0.414;AN=70;BaseQ
46126	chrY	23897567	.	A	G	11947.20	PASS	AC=29;AF=0.414;AN=70;BaseQ
46127	chrY	23897572	.	C	T	11928.15	PASS	AC=29;AF=0.414;AN=70;BaseQ
46128	chrY	23897597	.	G	C	9198.69	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46129	chrY	23897611	.	C	A	8844.59	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46130	chrY	23897633	.	T	G	9875.40	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
46131	chrY	23897634	.	T	A	9911.88	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
46132	chrY	23897635	.	T	C	9813.88	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=

46133	chrY	23897659	.	C	A	8659.81	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
46134	chrY	23897668	.	G	A	8884.88	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
46135	chrY	23897670	.	G	A	8886.88	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
46136	chrY	23897672	.	T	C	8733.72	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
46137	chrY	23897698	.	C	T	9298.59	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
46138	chrY	23897700	.	G	A	9591.40	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
46139	chrY	23897701	.	T	C	9588.59	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
46140	chrY	23897703	.	A	G	9529.66	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
46141	chrY	23897724	.	A	C	9530.10	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46142	chrY	23897728	.	T	G	9687.10	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46143	chrY	23897729	.	C	T	9711.10	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46144	chrY	23897738	.	T	G	10130.59	PASS	PASS AC=31;AF=0.443;AN=70;BaseQRankSum
46145	chrY	23897750	.	C	T	9127.61	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
46146	chrY	23897770	.	C	T	9048.32	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46147	chrY	23897819	.	C	T	5506.55	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
46148	chrY	23897840	.	A	G	67.05	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
46149	chrY	23897872	.	C	G	6293.05	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
46150	chrY	23897880	.	G	T	6337.95	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
46151	chrY	23897885	.	A	T	6293.64	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
46152	chrY	23897901	.	G	C	5767.83	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
46153	chrY	23897903	.	A	C	5807.04	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
46154	chrY	23897924	.	A	C	5016.35	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
46155	chrY	23897941	.	C	T	5454.39	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
46156	chrY	23897953	.	T	G	5988.85	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
46157	chrY	23897965	.	G	A	5906.45	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
46158	chrY	23898004	.	T	A	709.79	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum
46159	chrY	23898108	.	A	G	8959.22	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46160	chrY	23898115	.	C	A	8982.60	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46161	chrY	23898129	.	C	T	7560.91	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum
46162	chrY	23898172	.	A	G	7561.53	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
46163	chrY	23898183	.	G	C	7490.31	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
46164	chrY	23898199	.	C	A	8527.68	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
46165	chrY	23898233	.	A	G	8877.06	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum
46166	chrY	23898256	.	C	T	8796.30	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
46167	chrY	23898258	.	G	A	8778.90	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
46168	chrY	23898259	.	T	C	8682.54	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
46169	chrY	23898285	.	G	C	9500.87	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
46170	chrY	23898294	.	A	C	9999.57	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
46171	chrY	23898298	.	A	C	9942.14	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
46172	chrY	23898302	.	G	C	9928.69	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
46173	chrY	23898319	.	T	C	9263.52	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
46174	chrY	23898395	.	A	G	9523.68	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
46175	chrY	23898402	.	A	T	8953.67	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum
46176	chrY	23898427	.	T	C	7354.02	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum
46177	chrY	23898428	.	T	G	7367.02	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum
46178	chrY	23898438	.	A	G	6993.83	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
46179	chrY	23898441	.	C	T	6609.62	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
46180	chrY	23898479	.	C	T	2841.32	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
46181	chrY	23898498	.	T	C	4281.37	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
46182	chrY	23898506	.	C	T	4155.22	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
46183	chrY	23898510	.	G	A	4062.77	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
46184	chrY	23898535	.	G	A	1920.45	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
46185	chrY	23898559	.	C	A	1201.05	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
46186	chrY	23898566	.	T	C	1200.88	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum
46187	chrY	23898599	.	C	T	199.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
46188	chrY	23898611	.	T	A	114.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
46189	chrY	23898612	.	C	T	114.09	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
46190	chrY	23898785	.	G	A	1845.51	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
46191	chrY	23898787	.	G	C	2043.28	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
46192	chrY	23898798	.	C	A	2103.32	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
46193	chrY	23898814	.	G	A	2199.13	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum
46194	chrY	23898854	.	G	A	2998.96	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum
46195	chrY	23898868	.	T	C	3274.80	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
46196	chrY	23898870	.	C	G	3390.40	PASS	AC=18;AF=0.273;AN=66;BaseQRankSum
46197	chrY	23898875	.	A	G	3393.15	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum
46198	chrY	23898898	.	C	A	3504.38	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum
46199	chrY	23898941	.	T	G	4554.62	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum
46200	chrY	23899004	.	G	T	5844.39	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
46201	chrY	23899014	.	G	C	6281.21	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
46202	chrY	23899026	.	A	G	57.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
46203	chrY	23899033	.	G	T	7093.07	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
46204	chrY	23899034	.	A	G	7099.07	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
46205	chrY	23899102	.	T	C	9725.59	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum
46206	chrY	23899125	.	C	T	10689.30	PASS	PASS AC=31;AF=0.443;AN=70;BaseQRankSum
46207	chrY	23899143	.	G	T	10636.23	PASS	PASS AC=28;AF=0.412;AN=68;BaseQRankSum
46208	chrY	23899170	.	C	T	10736.06	PASS	PASS AC=26;AF=0.382;AN=68;BaseQRankSum

46209	chrY	23899184	.	C	T	10267.79	PASS	AC=26;AF=0.419;AN=62;BaseQRankSum=
46210	chrY	23899208	.	A	G	10771.14	PASS	AC=26;AF=0.419;AN=62;BaseQRankSum=
46211	chrY	23899216	.	A	G	10840.54	PASS	AC=26;AF=0.419;AN=62;BaseQRankSum=
46212	chrY	23899234	.	C	T	10500.25	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum=
46213	chrY	23899235	.	C	T	10485.25	PASS	AC=26;AF=0.406;AN=64;BaseQRankSum=
46214	chrY	23899260	.	A	G	11833.85	PASS	AC=25;AF=0.417;AN=60;BaseQRankSum=
46215	chrY	23899266	.	A	C	12223.87	PASS	AC=25;AF=0.403;AN=62;BaseQRankSum=
46216	chrY	23899283	.	A	G	12975.29	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
46217	chrY	23899286	.	T	C	13158.42	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
46218	chrY	23899296	.	G	T	12247.29	PASS	AC=25;AF=0.391;AN=64;BaseQRankSum=
46219	chrY	23899386	.	A	G	3209.92	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
46220	chrY	23899388	.	T	C	3209.92	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
46221	chrY	23899395	.	T	C	2749.73	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
46222	chrY	23899396	.	G	A	2668.75	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
46223	chrY	23899402	.	G	T,*	2316.66	PASS	AC=10,4;AF=0.200,0.080;AN=50;BaseQRankSum=
46224	chrY	23899414	.	G	C	1830.67	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
46225	chrY	23899416	.	G	T	1599.92	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
46226	chrY	23899469	.	C	T	562.46	PASS	AC=6;AF=0.130;AN=46;BaseQRankSum=
46227	chrY	23899485	.	A	C	209.23	PASS	AC=6;AF=0.136;AN=44;BaseQRankSum=
46228	chrY	23899488	.	G	A	125.36	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
46229	chrY	23899624	.	A	G	255.31	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
46230	chrY	23899631	.	C	A	256.03	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
46231	chrY	23899636	.	T	C	276.43	PASS	AC=4;AF=0.095;AN=42;BaseQRankSum=
46232	chrY	23899665	.	A	T	6349.22	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum=
46233	chrY	23899683	.	T	C	6282.98	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
46234	chrY	23899694	.	T	A	6250.20	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
46235	chrY	23899733	.	T	C	5875.98	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
46236	chrY	23899738	.	G	A	6022.85	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
46237	chrY	23899752	.	T	G	6374.67	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
46238	chrY	23899764	.	A	T	5881.74	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
46239	chrY	23899769	.	G	A	5834.46	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=
46240	chrY	23899780	.	A	C	5975.49	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
46241	chrY	23899799	.	T	A	5973.28	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
46242	chrY	23899801	.	C	A	5932.45	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
46243	chrY	23899806	.	A	C	5880.46	PASS	AC=9;AF=0.155;AN=58;BaseQRankSum=
46244	chrY	23899807	.	G	A	5891.28	PASS	AC=9;AF=0.161;AN=56;BaseQRankSum=
46245	chrY	23899812	.	A	G	5926.86	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
46246	chrY	23899819	.	T	A	6059.57	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
46247	chrY	23899838	.	A	C	6320.18	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
46248	chrY	23899866	.	C	T	6492.87	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
46249	chrY	23899893	.	A	T	7283.72	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
46250	chrY	23899906	.	A	T	7707.53	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
46251	chrY	23899961	.	T	C	7577.01	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
46252	chrY	23899975	.	A	G	7244.13	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
46253	chrY	23899988	.	C	T	7401.39	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
46254	chrY	23900003	.	G	A	6311.60	PASS	AC=24;AF=0.375;AN=64;BaseQRankSum=
46255	chrY	23900035	.	T	G	5132.58	PASS	AC=27;AF=0.397;AN=68;BaseQRankSum=
46256	chrY	23900125	.	T	C	6910.64	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
46257	chrY	23900126	.	G	A	6895.64	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
46258	chrY	23900170	.	A	G	5232.59	PASS	AC=17;AF=0.293;AN=58;BaseQRankSum=
46259	chrY	23900178	.	T	C	5064.56	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum=
46260	chrY	23900185	.	C	T	4980.89	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
46261	chrY	23900195	.	A	T	5091.83	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
46262	chrY	23900199	.	T	A	5036.70	PASS	AC=15;AF=0.250;AN=60;BaseQRankSum=
46263	chrY	23900254	.	A	G	6529.55	PASS	AC=22;AF=0.333;AN=66;BaseQRankSum=
46264	chrY	23900267	.	G	A	7086.53	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
46265	chrY	23900279	.	T	C	7564.28	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
46266	chrY	23900298	.	C	T	7352.89	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
46267	chrY	23900360	.	A	G	7464.20	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46268	chrY	23900383	.	T	C	8936.51	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
46269	chrY	23900390	.	C	G	8606.64	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
46270	chrY	23900433	.	T	C	8345.80	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=
46271	chrY	23900460	.	T	C	8768.71	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
46272	chrY	23900464	.	A	C	8849.99	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
46273	chrY	23900467	.	C	G	8858.63	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum=
46274	chrY	23900474	.	T	C	8178.84	PASS	AC=29;AF=0.468;AN=62;BaseQRankSum=
46275	chrY	23900565	.	A	G	8240.54	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46276	chrY	23900579	.	G	C	8049.38	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
46277	chrY	23900594	.	T	C	7013.80	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
46278	chrY	23900645	.	A	G	5651.51	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
46279	chrY	23900676	.	T	A	5338.65	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
46280	chrY	23900680	.	T	A	5270.60	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
46281	chrY	23900714	.	T	C	4962.61	PASS	AC=15;AF=0.288;AN=52;BaseQRankSum=
46282	chrY	23900736	.	T	C	5314.05	PASS	AC=14;AF=0.304;AN=46;BaseQRankSum=
46283	chrY	23900760	.	C	A	5391.14	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
46284	chrY	23900763	.	C	T	5444.68	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=

46285	chrY	23900768	.	A	G	5520.12	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum
46286	chrY	23900772	.	T	A	5614.90	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum
46287	chrY	23900796	.	T	C	5504.71	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum
46288	chrY	23900813	.	T	C	4943.77	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum
46289	chrY	23900831	.	T	C	4874.17	PASS	AC=9;AF=0.196;AN=46;BaseQRankSum
46290	chrY	23900860	.	A	T	4965.18	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum
46291	chrY	23900874	.	T	A	4989.90	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum
46292	chrY	23900881	.	T	C	5000.03	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum
46293	chrY	23900886	.	T	C	4920.31	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum
46294	chrY	23900888	.	A	G	4906.26	PASS	AC=9;AF=0.205;AN=44;BaseQRankSum
46295	chrY	23900900	.	G	C	4895.20	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum
46296	chrY	23900901	.	C	T	4924.20	PASS	AC=9;AF=0.214;AN=42;BaseQRankSum
46297	chrY	23900918	.	T	A	4648.56	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum
46298	chrY	23900952	.	A	T	2495.51	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum
46299	chrY	23900993	.	T	C	5073.25	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum
46300	chrY	23901041	.	T	C	5108	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum
46301	chrY	23901044	.	T	C	5151.69	PASS	AC=11;AF=0.190;AN=58;BaseQRankSum
46302	chrY	23901052	.	A	G	5075.79	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum
46303	chrY	23901106	.	T	C	5626.92	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
46304	chrY	23901110	.	C	A	5682.58	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
46305	chrY	23901117	.	C	A	5766.91	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum
46306	chrY	23901132	.	C	T	5566.18	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
46307	chrY	23901133	.	A	G	5646.99	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
46308	chrY	23901140	.	T	C	5406.30	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum
46309	chrY	23901158	.	C	T	3699	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
46310	chrY	23901186	.	A	T	4266.27	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
46311	chrY	23901206	.	G	A	6298.07	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
46312	chrY	23901210	.	G	T	6499.89	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
46313	chrY	23901217	.	A	T	6470.96	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
46314	chrY	23901226	.	C	T	6413.18	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
46315	chrY	23901231	.	T	G	6371.01	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
46316	chrY	23901239	.	A	G	6237.82	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
46317	chrY	23901241	.	A	C	6163.30	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
46318	chrY	23901284	.	A	T	110.96	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum
46319	chrY	23952135	.	C	A	656.13	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum
46320	chrY	23954861	.	A	G	14580.69	PASS	AC=58;AF=0.829;AN=70;DP=6
46321	chrY	23955255	.	C	T	1324.03	PASS	AC=6;AF=0.088;AN=68;DP=346;FS=0.0
46322	chrY	23961979	.	G	A	86.64	PASS	AC=2;AF=0.071;AN=28;DP=44;FS=0.00
46323	chrY	23963405	.	C	T	1053.22	PASS	AC=6;AF=0.086;AN=70;DP=725;FS=0.0
46324	chrY	23966519	.	T	C	975.68	PASS	AC=6;AF=0.086;AN=70;DP=589;FS=0.0
46325	chrY	23967699	.	C	T	1143.91	PASS	AC=6;AF=0.086;AN=70;DP=790;FS=0.0
46326	chrY	23971687	.	A	C	20856.44	PASS	AC=52;AF=0.743;AN=70;DP=7
46327	chrY	23973594	.	G	T	20171.97	PASS	AC=68;AF=1.00;AN=68;DP=66
46328	chrY	23974800	.	A	G	20087.85	PASS	AC=58;AF=0.829;AN=70;DP=7
46329	chrY	23975319	.	C	A	1648.24	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
46330	chrY	23978653	.	C	G	1407.11	PASS	AC=6;AF=0.086;AN=70;DP=747;FS=0.0
46331	chrY	23979899	.	T	C	30660.90	PASS	AC=70;AF=1.00;AN=70;BaseQ
46332	chrY	23979920	.	G	A	39.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46333	chrY	23979922	.	T	A	39.57	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46334	chrY	23982331	.	C	A	1703.47	PASS	AC=4;AF=0.057;AN=70;DP=623;FS=0.0
46335	chrY	23984056	.	A	G	20269.87	PASS	AC=70;AF=1.00;AN=70;DP=62
46336	chrY	23984749	.	G	A	201.25	PASS	AC=2;AF=0.029;AN=70;DP=591;FS=0.0
46337	chrY	23987793	.	G	A	1366.83	PASS	AC=6;AF=0.086;AN=70;DP=695;FS=0.0
46338	chrY	23990058	.	A	C	2171.01	PASS	AC=6;AF=0.086;AN=70;DP=731;FS=0.0
46339	chrY	23990069	.	T	G	2306.95	PASS	AC=6;AF=0.086;AN=70;DP=767;FS=0.0
46340	chrY	23990072	.	T	A	2370.90	PASS	AC=6;AF=0.086;AN=70;DP=774;FS=0.0
46341	chrY	23990078	.	C	T	2370.90	PASS	AC=6;AF=0.086;AN=70;DP=783;FS=0.0
46342	chrY	23990199	.	A	G	565.31	PASS	AC=2;AF=0.029;AN=70;DP=852;FS=0.0
46343	chrY	23990205	.	A	G	558.43	PASS	AC=2;AF=0.029;AN=68;DP=850;FS=0.0
46344	chrY	23992762	.	A	C	9670.99	PASS	AC=64;AF=1.00;AN=64;DP=333;FS=0.0
46345	chrY	23993156	.	C	A	17404.88	PASS	AC=70;AF=1.00;AN=70;DP=56
46346	chrY	23993901	.	G	A	1299.88	PASS	AC=6;AF=0.086;AN=70;DP=909;FS=0.0
46347	chrY	23998442	.	C	T	505.32	PASS	AC=2;AF=0.029;AN=70;DP=533;FS=0.0
46348	chrY	23998943	.	C	A	162.23	PASS	AC=2;AF=0.029;AN=70;DP=670;FS=0.0
46349	chrY	24001146	.	G	A	1963.03	PASS	AC=6;AF=0.086;AN=70;DP=746;FS=0.0
46350	chrY	24001207	.	G	A	1121.90	PASS	AC=6;AF=0.086;AN=70;DP=772;FS=0.0
46351	chrY	24002578	.	C	T	1416.56	PASS	AC=6;AF=0.086;AN=70;DP=535;FS=0.0
46352	chrY	24007354	.	C	T	1315.43	PASS	AC=6;AF=0.086;AN=70;DP=642;FS=0.0
46353	chrY	24047582	.	A	G	477.76	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
46354	chrY	24052303	.	C	T	826	my_snp_filter	AC=14;AF=0.778;AN=18;DP=4
46355	chrY	24052771	.	C	G	615.33	my_snp_filter	AC=14;AF=1.00;AN=14;DP=26
46356	chrY	24070105	.	G	T	303.72	my_snp_filter	AC=8;AF=0.308;AN=26;DP=16
46357	chrY	24070231	.	T	C	3385.78	my_snp_filter	AC=45;AF=0.804;AN=56;Base
46358	chrY	24078788	.	G	T	416.31	my_snp_filter	AC=6;AF=0.333;AN=18;DP=60
46359	chrY	24107682	.	G	A	100.17	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum
46360	chrY	24107685	.	T	A	90.50	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum

46361	chrY	24109132	.	G	A	1668.54	my_snp_filter	AC=34;AF=1.00;AN=34;DP=73
46362	chrY	24109486	.	A	C	829.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
46363	chrY	24126768	.	G	T	157.46	my_snp_filter	AC=4;AF=0.095;AN=42;DP=65
46364	chrY	24127253	.	C	A	270.96	my_snp_filter	AC=2;AF=0.083;AN=24;DP=70
46365	chrY	24225411	.	C	A	366.87	my_snp_filter	AC=7;AF=0.194;AN=36;BaseQ
46366	chrY	24225417	.	A	G	369.77	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
46367	chrY	24225420	.	A	G	328.15	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
46368	chrY	24225437	.	C	T	349.88	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
46369	chrY	24225438	.	A	G	349.88	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
46370	chrY	24225447	.	G	A	177.82	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
46371	chrY	24225451	.	G	A	182.18	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
46372	chrY	24225457	.	T	G	172.72	my_snp_filter	AC=1;AF=0.031;AN=32;BaseQ
46373	chrY	24225461	.	C	T	123.15	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
46374	chrY	24253461	.	G	A	4061.88	my_snp_filter	AC=23;AF=0.348;AN=66;BaseQ
46375	chrY	24278171	.	C	T	57.38	my_snp_filter	AC=2;AF=0.033;AN=60;DP=20
46376	chrY	24290751	.	A	G	171.65	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
46377	chrY	24312012	.	C	A	66.98	my_snp_filter	AC=4;AF=1.00;AN=4;DP=10;FS=0.0
46378	chrY	24339651	.	G	A	598.26	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
46379	chrY	24355494	.	G	A	398.60	PASS	AC=6;AF=0.088;AN=68;DP=238;FS=0.0
46380	chrY	24357953	.	G	C	887.84	PASS	AC=6;AF=0.086;AN=70;DP=282;FS=0.0
46381	chrY	24359931	.	C	T	9628.96	PASS	AC=58;AF=0.829;AN=70;DP=392;FS=0.0
46382	chrY	24360964	.	A	G	13605.90	PASS	AC=70;AF=1.00;AN=70;DP=51
46383	chrY	24364899	.	G	C	1118.07	PASS	AC=6;AF=0.086;AN=70;DP=667;FS=0.0
46384	chrY	24367224	.	G	T	263.47	PASS	AC=4;AF=0.061;AN=66;DP=362;FS=0.0
46385	chrY	24368527	.	T	C	399.44	PASS	AC=2;AF=0.029;AN=70;DP=473;FS=0.0
46386	chrY	24370605	.	G	A	13830.93	PASS	AC=70;AF=1.00;AN=70;BaseQ
46387	chrY	24373422	.	T	C	870.19	PASS	AC=6;AF=0.333;AN=18;DP=149;FS=0.0
46388	chrY	24383087	.	T	C	5892.09	PASS	AC=46;AF=0.657;AN=70;DP=348;FS=0.0
46389	chrY	24383184	.	C	T	159.30	PASS	AC=2;AF=0.029;AN=70;DP=390;FS=0.0
46390	chrY	24383525	.	C	A	35.61	PASS	AC=1;AF=0.028;AN=36;BaseQRankSum=
46391	chrY	24390651	.	G	C	633.37	PASS	AC=6;AF=0.086;AN=70;DP=670;FS=0.0
46392	chrY	24391891	.	A	T	1291.71	PASS	AC=6;AF=0.091;AN=66;DP=240;FS=0.0
46393	chrY	24392082	.	T	C	3247.63	PASS	AC=42;AF=0.778;AN=54;DP=203;FS=0.0
46394	chrY	24392653	.	C	G	1021.77	PASS	AC=6;AF=0.088;AN=68;DP=378;FS=0.0
46395	chrY	24393811	.	G	T	6829.08	PASS	AC=36;AF=0.545;AN=66;DP=448;FS=0.0
46396	chrY	24393984	.	A	T	1441.06	PASS	AC=6;AF=0.086;AN=70;DP=604;FS=0.0
46397	chrY	24394612	.	A	G	13233.97	PASS	AC=68;AF=1.00;AN=68;DP=44
46398	chrY	24396667	.	T	C	8804.10	PASS	AC=50;AF=0.735;AN=68;DP=454;FS=0.0
46399	chrY	24397413	.	C	T	109.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46400	chrY	24397418	.	G	A	109.10	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46401	chrY	24397428	.	C	G	106.10	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
46402	chrY	24397435	.	A	T	109.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
46403	chrY	24401768	.	C	T	1303.88	PASS	AC=6;AF=0.086;AN=70;DP=700;FS=0.0
46404	chrY	24405862	.	T	C	17644.91	PASS	AC=68;AF=1.00;AN=68;DP=66
46405	chrY	24406606	.	G	A	11114.07	PASS	AC=70;AF=1.00;AN=70;DP=36
46406	chrY	24418076	.	C	T	9021.44	PASS	AC=46;AF=0.657;AN=70;DP=495;FS=0.0
46407	chrY	24420336	.	A	G	311.20	PASS	AC=2;AF=0.029;AN=70;DP=416;FS=0.0
46408	chrY	24420879	.	A	T	452.15	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum=
46409	chrY	24422830	.	C	T	1453.13	PASS	AC=6;AF=0.086;AN=70;DP=517;FS=0.0
46410	chrY	24435392	.	T	C	59.29	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
46411	chrY	24435424	.	C	G	54.51	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
46412	chrY	24435448	.	G	T	38.26	PASS	AC=1;AF=0.071;AN=14;BaseQRankSum=
46413	chrY	24435624	.	T	G	326.85	PASS	AC=10;AF=0.357;AN=28;DP=126;FS=0.0
46414	chrY	24443836	.	T	G	16733.95	PASS	AC=68;AF=1.00;AN=68;DP=55
46415	chrY	24444622	.	T	C	19489.91	PASS	AC=70;AF=1.00;AN=70;BaseQ
46416	chrY	24445181	.	G	T	2058.39	PASS	AC=6;AF=0.086;AN=70;DP=742;FS=0.0
46417	chrY	24447989	.	A	C	11958.94	PASS	AC=68;AF=1.00;AN=68;DP=42
46418	chrY	24451187	.	A	G	563.54	PASS	AC=6;AF=0.086;AN=70;DP=504;FS=0.0
46419	chrY	24453507	.	C	T	18581.27	PASS	AC=52;AF=0.743;AN=70;DP=7
46420	chrY	24453842	.	G	T	12689.94	PASS	AC=60;AF=1.00;AN=60;BaseQ
46421	chrY	24453952	.	T	G	1298.07	PASS	AC=4;AF=0.059;AN=68;DP=591;FS=0.0
46422	chrY	24456796	.	C	T	1254.14	PASS	AC=6;AF=0.086;AN=70;DP=320;FS=0.0
46423	chrY	24457860	.	A	G	113.79	PASS	AC=2;AF=0.030;AN=66;DP=231;FS=0.0
46424	chrY	24461802	.	C	T	1210.42	PASS	AC=6;AF=0.273;AN=22;DP=135;FS=0.0
46425	chrY	24465309	.	T	G	21177.70	PASS	AC=46;AF=0.657;AN=70;BaseQ
46426	chrY	24466715	.	G	A	873.84	PASS	AC=6;AF=0.086;AN=70;DP=486;FS=0.0
46427	chrY	24468533	.	C	T	826.56	PASS	AC=6;AF=0.086;AN=70;DP=403;FS=0.0
46428	chrY	24480245	.	G	A	439.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46429	chrY	24480987	.	A	C	259.58	PASS	AC=2;AF=0.031;AN=64;DP=204;FS=0.0
46430	chrY	24485562	.	A	G	8276.99	PASS	AC=62;AF=1.00;AN=62;DP=271;FS=0.0
46431	chrY	24485659	.	A	G	85.85	PASS	AC=4;AF=0.069;AN=58;DP=146;FS=0.0
46432	chrY	24488835	.	G	A	574.52	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
46433	chrY	24490535	.	C	T	535.40	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
46434	chrY	24490553	.	G	A	538.45	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
46435	chrY	24490594	.	G	A	391.57	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
46436	chrY	24490654	.	T	A	191.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=

46437	chrY	24490657	.	T	C	191.25	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
46438	chrY	24490710	.	A	G	67.07	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
46439	chrY	24490720	.	G	A	460.71	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
46440	chrY	24490723	.	G	C	60.49	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
46441	chrY	24490731	.	T	G	60.59	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
46442	chrY	24490741	.	G	T	2078.15	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
46443	chrY	24490762	.	G	C	1862.88	my_snp_filter	AC=8;AF=0.444;AN=18;BaseQ
46444	chrY	24490780	.	C	T	2084.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
46445	chrY	24490816	.	G	A	1169.15	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
46446	chrY	24490839	.	C	T	895.09	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
46447	chrY	24490845	.	G	T	580.91	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
46448	chrY	24490980	.	A	T	3828.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
46449	chrY	24490992	.	C	A	3801.09	my_snp_filter	AC=9;AF=0.500;AN=18;BaseQ
46450	chrY	24491041	.	G	A	2280.82	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
46451	chrY	24491043	.	C	A	2280.82	my_snp_filter	AC=7;AF=0.389;AN=18;BaseQ
46452	chrY	24491076	.	C	T	432.55	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
46453	chrY	24491077	.	A	G	462.31	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
46454	chrY	24491633	.	G	A	51.31	PASS	AC=2;AF=0.077;AN=26;DP=154;FS=0.0
46455	chrY	24491636	.	C	A	51.26	PASS	AC=2;AF=0.071;AN=28;DP=152;FS=0.0
46456	chrY	24495962	.	C	A	1152.29	PASS	AC=6;AF=0.086;AN=70;DP=555;FS=0.0
46457	chrY	24498879	.	A	G	930.50	PASS	AC=6;AF=0.086;AN=70;DP=394;FS=0.0
46458	chrY	24502231	.	C	T	1684.69	PASS	AC=6;AF=0.250;AN=24;DP=182;FS=0.0
46459	chrY	24505364	.	C	T	518.23	PASS	AC=2;AF=0.029;AN=70;DP=440;FS=0.0
46460	chrY	24511620	.	G	A	9626.40	PASS	AC=52;AF=0.743;AN=70;DP=471;FS=0.
46461	chrY	24515239	.	A	G	47.44	PASS	AC=2;AF=0.033;AN=60;DP=229;FS=0.0
46462	chrY	24515245	.	A	G	47.37	PASS	AC=2;AF=0.032;AN=62;DP=242;FS=0.0
46463	chrY	24517335	.	T	A	308.55	PASS	AC=2;AF=0.030;AN=66;DP=235;FS=0.0
46464	chrY	24535247	.	A	C	93.22	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
46465	chrY	24535250	.	T	C	91.56	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
46466	chrY	24553539	.	C	G	192.30	PASS	AC=6;AF=0.188;AN=32;DP=329;FS=0.0
46467	chrY	24553995	.	T	C	64.98	my_snp_filter	AC=4;AF=0.286;AN=14;DP=26
46468	chrY	24563277	.	T	G	154.11	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
46469	chrY	24573237	.	C	T	1155.59	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
46470	chrY	24587965	.	T	C	86.11	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
46471	chrY	24587968	.	G	A	996.28	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
46472	chrY	24651221	.	G	T	936.31	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
46473	chrY	24651293	.	C	G	566.97	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
46474	chrY	24653314	.	A	C	146.08	my_snp_filter	AC=6;AF=0.500;AN=12;DP=14
46475	chrY	24665571	.	A	T	660.23	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
46476	chrY	24667846	.	T	C	90.60	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
46477	chrY	24706319	.	C	A	78.38	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
46478	chrY	24706329	.	G	A	39.21	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
46479	chrY	24707739	.	A	G	507.02	my_snp_filter	AC=9;AF=0.900;AN=10;BaseQ
46480	chrY	24751436	.	G	T	52.15	my_snp_filter	AC=2;AF=0.029;AN=68;DP=38
46481	chrY	24751525	.	C	T	7385.96	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQ
46482	chrY	24751922	.	C	A	53.11	my_snp_filter	AC=2;AF=0.143;AN=14;BaseQ
46483	chrY	24759095	.	T	C	11142.06	my_snp_filter	AC=23;AF=0.338;AN
46484	chrY	24782986	.	G	T	605.92	my_snp_filter	AC=6;AF=0.600;AN=10;DP=26
46485	chrY	24874308	.	A	T	4261.65	PASS	AC=42;AF=0.700;AN=60;DP=263;FS=0.
46486	chrY	24874676	.	T	G	651.01	PASS	AC=4;AF=0.065;AN=62;DP=260;FS=0.0
46487	chrY	24874813	.	A	T	8674.16	PASS	AC=50;AF=0.806;AN=62;BaseQRankSum
46488	chrY	24879137	.	A	T	1761.53	PASS	AC=6;AF=0.094;AN=64;DP=571;FS=0.0
46489	chrY	24880134	.	C	G	907.71	PASS	AC=6;AF=0.094;AN=64;DP=234;FS=0.0
46490	chrY	24882657	.	G	T	47.69	my_snp_filter	AC=2;AF=0.032;AN=62;DP=29
46491	chrY	24885995	.	T	G	9732.02	PASS	AC=34;AF=0.586;AN=58;DP=429;FS=0.
46492	chrY	24886659	.	C	T	354.42	PASS	AC=6;AF=0.107;AN=56;DP=107;FS=0.0
46493	chrY	24886797	.	A	G	919.05	PASS	AC=6;AF=0.097;AN=62;DP=255;FS=0.0
46494	chrY	24926001	.	G	A	1183.64	my_snp_filter	AC=6;AF=0.600;AN=10;DP=88
46495	chrY	24926385	.	C	G	430.88	my_snp_filter	AC=4;AF=0.400;AN=10;DP=52
46496	chrY	24931679	.	C	A	97.17	my_snp_filter	AC=4;AF=0.077;AN=52;DP=16
46497	chrY	24961157	.	T	A	2875.63	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
46498	chrY	24966336	.	A	G	202.66	my_snp_filter	AC=2;AF=0.200;AN=10;BaseQ
46499	chrY	25001836	.	G	A	300.54	my_snp_filter	AC=2;AF=0.333;AN=6;DP=28;
46500	chrY	25020605	.	T	A	61.86	my_snp_filter	AC=1;AF=0.500;AN=2;BaseQR
46501	chrY	25024783	.	T	C	282.17	my_snp_filter	AC=6;AF=0.750;AN=8;DP=16;
46502	chrY	25027102	.	T	C	185.79	my_snp_filter	AC=4;AF=0.400;AN=10;BaseQ
46503	chrY	25029969	.	T	G	167.29	my_snp_filter	AC=4;AF=0.667;AN=6;DP=10;
46504	chrY	25030039	.	G	A	369.58	my_snp_filter	AC=10;AF=1.00;AN=10;DP=20
46505	chrY	25145064	.	T	C	745.04	my_snp_filter	AC=4;AF=0.100;AN=40;DP=87
46506	chrY	25333965	.	G	A	32.29	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
46507	chrY	25333967	.	A	G	32.29	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
46508	chrY	25511257	.	C	G	935.23	my_snp_filter	AC=13;AF=0.361;AN=36;BaseQ
46509	chrY	25592902	.	A	C	312.32	PASS	AC=4;AF=0.182;AN=22;DP=46;FS=0.00
46510	chrY	25592904	.	A	C	305.47	PASS	AC=4;AF=0.182;AN=22;DP=38;FS=0.00
46511	chrY	25592906	.	A	C	54.46	my_snp_filter	AC=2;AF=0.100;AN=20;DP=25
46512	chrY	25617879	.	A	C	94.91	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ

46513	chrY	25866607	.	C	T	295.96	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
46514	chrY	25928622	.	T	C	7823.65	my_snp_filter	AC=23;AF=0.442;AN=52;Base
46515	chrY	25974224	.	C	G	356.82	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
46516	chrY	25995033	.	A	C	321.47	my_snp_filter	AC=6;AF=0.600;AN=10;DP=63
46517	chrY	25995035	.	A	C	306.31	my_snp_filter	AC=6;AF=0.300;AN=20;DP=52
46518	chrY	26134809	.	T	G	1105.18	my_snp_filter	AC=22;AF=0.917;AN=24;DP=4
46519	chrY	26248184	.	C	A	42	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
46520	chrY	26400695	.	C	G	30.91	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
46521	chrY	26400702	.	C	T	43.17	PASS	AC=2;AF=0.043;AN=46;BaseQRankSum=
46522	chrY	26467198	.	G	C	589.22	my_snp_filter	AC=10;AF=0.455;AN=22;DP=
46523	chrY	26498621	.	A	G	1302.31	my_snp_filter	AC=12;AF=0.231;AN=52;Base
46524	chrY	26498663	.	G	A	47.71	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
46525	chrY	26498769	.	T	G	114.26	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
46526	chrY	26500451	.	A	C	470.49	my_snp_filter	AC=5;AF=0.167;AN=30;BaseQ
46527	chrY	26501077	.	G	A	120.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46528	chrY	26563185	.	T	C	205.18	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
46529	chrY	26593138	.	T	G	2693.51	my_snp_filter	AC=27;AF=0.964;AN=28;Base
46530	chrY	26834796	.	T	G	75.12	my_snp_filter	AC=3;AF=0.068;AN=44;BaseQ
46531	chrY	26922013	.	A	T	323.17	my_snp_filter	AC=4;AF=1.00;AN=4;DP=8;FS
46532	chrY	27087630	.	T	G	5294.10	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
46533	chrY	27445257	.	A	G	67.16	my_snp_filter	AC=3;AF=0.058;AN=52;BaseQ
46534	chrY	27445392	.	T	C	67.73	my_snp_filter	AC=4;AF=0.077;AN=52;BaseQ
46535	chrY	27495329	.	A	G	996.11	my_snp_filter	AC=12;AF=1.00;AN=12;DP=36
46536	chrY	27535821	.	T	C	23523.91	PASS	AC=52;AF=1.00;AN=52;DP=82
46537	chrY	27535995	.	C	T	114.27	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
46538	chrY	27546746	.	T	C	690.31	PASS	AC=12;AF=0.353;AN=34;BaseQRankSum=
46539	chrY	27548398	.	G	T	42.53	PASS	AC=2;AF=0.200;AN=10;DP=16;FS=0.00
46540	chrY	27590928	.	A	T	115	my_snp_filter	AC=2;AF=1.00;AN=2;DP=5;FS
46541	chrY	27603461	.	A	G	35.59	my_snp_filter	AC=2;AF=0.063;AN=32;DP=41
46542	chrY	27607746	.	G	A	332.31	my_snp_filter	AC=6;AF=0.158;AN=38;DP=10
46543	chrY	27607813	.	A	G	8565.95	my_snp_filter	AC=38;AF=0.950;AN=40;DP=3
46544	chrY	27608000	.	G	A	53.14	my_snp_filter	AC=2;AF=0.333;AN=6;DP=12;
46545	chrY	27653848	.	C	T	123.59	my_snp_filter	AC=2;AF=0.067;AN=30;DP=34
46546	chrY	27653926	.	G	A	1725.77	my_snp_filter	AC=17;AF=0.340;AN=50;Base
46547	chrY	27714248	.	G	T	54.33	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
46548	chrY	27810636	.	C	T	96.69	my_snp_filter	AC=4;AF=1.00;AN=4;DP=6;FS
46549	chrY	27822391	.	A	G	50.18	my_snp_filter	AC=2;AF=0.083;AN=24;DP=25
46550	chrY	27823594	.	A	G	51.49	my_snp_filter	AC=2;AF=0.143;AN=14;DP=11
46551	chrY	28030685	.	G	A	62.12	PASS	AC=2;AF=0.500;AN=4;DP=7;FS=0.000;
46552	chrY	28030783	.	C	T	361.81	PASS	AC=4;AF=0.400;AN=10;DP=20;FS=0.00
46553	chrY	28030787	.	C	T	356.72	PASS	AC=4;AF=0.400;AN=10;DP=22;FS=0.00
46554	chrY	28030823	.	T	C	63.14	PASS	AC=1;AF=0.100;AN=10;BaseQRankSum=
46555	chrY	28189849	.	C	A	111.54	my_snp_filter	AC=4;AF=1.00;AN=4;DP=6;FS
46556	chrY	28316056	.	G	T	68.13	my_snp_filter	AC=4;AF=0.250;AN=16;DP=25
46557	chrY	28374233	.	A	G	449.16	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
46558	chrY	28375656	.	A	T	307.20	my_snp_filter	AC=6;AF=0.300;AN=20;DP=50
46559	chrY	28402366	.	C	T	665.20	my_snp_filter	AC=8;AF=1.00;AN=8;DP=26;F
46560	chrY	28432531	.	G	A	61.47	my_snp_filter	AC=4;AF=0.133;AN=30;DP=13
46561	chrY	28454551	.	A	G	530.60	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
46562	chrY	28457607	.	G	A	543.94	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
46563	chrY	28459738	.	G	A	8984.79	PASS	AC=54;AF=0.818;AN=66;DP=395;FS=0.
46564	chrY	28462000	.	G	A	31.73	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46565	chrY	28462002	.	C	T	31.57	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46566	chrY	28468167	.	C	T	83	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46567	chrY	28468257	.	T	C	47.83	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
46568	chrY	28470600	.	A	C,*	4097.06	PASS	AC=43,10;AF=0.768,0.179;AN=56;Bas
46569	chrY	28470602	.	A	C,*	1583.71	PASS	AC=22,10;AF=0.379,0.172;AN=58;DP=
46570	chrY	28472208	.	G	A	61.86	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
46571	chrY	28473327	.	C	A	59.30	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46572	chrY	28473333	.	C	T	56.43	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46573	chrY	28473334	.	A	G	56.44	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
46574	chrY	28473352	.	A	C	66.43	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
46575	chrY	28473356	.	C	T	66.42	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
46576	chrY	28473359	.	A	G	66.78	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
46577	chrY	28474319	.	C	T	98.15	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
46578	chrY	28474321	.	G	A	97.96	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
46579	chrY	28474332	.	C	T	56.81	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
46580	chrY	28480076	.	G	A	3634.89	PASS	AC=26;AF=0.371;AN=70;DP=339;FS=0.
46581	chrY	28482610	.	T	C	81.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
46582	chrY	28482687	.	T	C	421.92	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
46583	chrY	28483033	.	C	T	746.58	PASS	AC=6;AF=0.167;AN=36;BaseQRankSum=
46584	chrY	28488091	.	C	A	1160.18	PASS	AC=6;AF=0.333;AN=18;DP=168;FS=0.0
46585	chrY	28491229	.	G	A	498.38	PASS	AC=6;AF=0.333;AN=18;DP=66;FS=0.00
46586	chrY	28492107	.	G	A	1280.52	PASS	AC=12;AF=0.500;AN=24;DP=156;FS=0.
46587	chrY	28501032	.	C	T	221.23	PASS	AC=2;AF=0.038;AN=52;DP=136;FS=0.0
46588	chrY	28506397	.	T	C	510.97	PASS	AC=6;AF=0.086;AN=70;DP=566;FS=0.0

46589	chrY	28507625	.	C	A	1019.77	PASS	AC=6;AF=0.300;AN=20;DP=144;FS=0.0
46590	chrY	28508556	.	T	G	1421.79	PASS	AC=6;AF=0.086;AN=70;DP=414;FS=0.0
46591	chrY	28508874	.	C	A	576.78	PASS	AC=2;AF=0.029;AN=68;DP=431;FS=0.0
46592	chrY	28509077	.	A	G	7223.41	PASS	AC=44;AF=0.629;AN=70;BaseQRankSum=
46593	chrY	28512755	.	A	G	185.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
46594	chrY	28513604	.	C	T	498.96	PASS	AC=6;AF=0.088;AN=68;DP=355;FS=0.0
46595	chrY	28518030	.	A	G	205.14	PASS	AC=2;AF=0.111;AN=18;DP=117;FS=0.0
46596	chrY	28518620	.	C	T	466.01	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
46597	chrY	28523022	.	G	A	940.59	PASS	AC=6;AF=0.333;AN=18;DP=135;FS=0.0
46598	chrY	28525833	.	G	A	821.31	PASS	AC=6;AF=0.086;AN=70;DP=548;FS=0.0
46599	chrY	28526057	.	A	G	813.25	PASS	AC=6;AF=0.088;AN=68;DP=450;FS=0.0
46600	chrY	28530489	.	A	C	338.25	PASS	AC=2;AF=0.029;AN=70;DP=414;FS=0.0
46601	chrY	28532077	.	C	T	1321.30	PASS	AC=6;AF=0.086;AN=70;DP=352;FS=0.0
46602	chrY	28535846	.	G	A	462.10	PASS	AC=4;AF=0.057;AN=70;DP=567;FS=0.0
46603	chrY	28543558	.	T	C	546.69	PASS	AC=6;AF=0.088;AN=68;DP=235;FS=0.0
46604	chrY	28549172	.	C	G	137.79	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46605	chrY	28549179	.	G	A	140.58	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
46606	chrY	28549230	.	C	G	1437.44	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
46607	chrY	28549246	.	T	C	2189.13	my_snp_filter	AC=11;AF=0.172;AN=64;BaseQ
46608	chrY	28549247	.	G	A	2165.13	my_snp_filter	AC=11;AF=0.177;AN=62;BaseQ
46609	chrY	28549346	.	C	A,*	10620.27	PASS	AC=4,23;AF=0.065,0.371;AN=
46610	chrY	28549364	.	G	T	11255.45	PASS	AC=27;AF=0.435;AN=62;BaseQ
46611	chrY	28549443	.	T	C	11387.29	PASS	AC=29;AF=0.580;AN=50;BaseQ
46612	chrY	28549459	.	C	A	1666.21	PASS	AC=6;AF=0.107;AN=56;BaseQRankSum=
46613	chrY	28549469	.	G	T	1646.37	PASS	AC=6;AF=0.125;AN=48;BaseQRankSum=
46614	chrY	28549471	.	C	A	10362.45	PASS	AC=21;AF=0.525;AN=40;BaseQ
46615	chrY	28549475	.	A	T	10011.08	PASS	AC=21;AF=0.500;AN=42;BaseQ
46616	chrY	28549568	.	T	G	4402.68	PASS	AC=13;AF=0.342;AN=38;BaseQRankSum=
46617	chrY	28549622	.	C	A	113.48	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
46618	chrY	28549652	.	T	C	2526.38	PASS	AC=19;AF=0.452;AN=42;BaseQRankSum=
46619	chrY	28549778	.	G	A	4160.88	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
46620	chrY	28549779	.	C	G	85.15	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
46621	chrY	28549786	.	C	T	4070.96	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
46622	chrY	28549787	.	G	A	84.84	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
46623	chrY	28549819	.	G	A	1510.43	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
46624	chrY	28549821	.	C	A	2690.46	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
46625	chrY	28549852	.	G	A	538.01	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
46626	chrY	28549853	.	G	T	1482.03	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
46627	chrY	28550029	.	C	A	39.86	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
46628	chrY	28550045	.	T	G	38.93	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
46629	chrY	28550174	.	A	G	187.07	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
46630	chrY	28550189	.	G	A	186.95	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
46631	chrY	28550212	.	G	T	51.70	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
46632	chrY	28550218	.	T	C	49.53	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
46633	chrY	28550219	.	G	A	48.64	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
46634	chrY	28550572	.	G	A	194.41	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
46635	chrY	28550616	.	G	A	69.61	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
46636	chrY	28552035	.	G	A	385.83	PASS	AC=2;AF=0.029;AN=68;DP=506;FS=0.0
46637	chrY	28556500	.	G	T	410.33	PASS	AC=6;AF=0.115;AN=52;DP=136;FS=0.0
46638	chrY	28557630	.	A	G	905.39	PASS	AC=6;AF=0.115;AN=52;DP=175;FS=0.0
46639	chrY	28558619	.	A	T	953.51	PASS	AC=6;AF=0.176;AN=34;BaseQRankSum=
46640	chrY	28561527	.	G	A	129.60	PASS	AC=2;AF=0.029;AN=70;DP=389;FS=0.0
46641	chrY	28565153	.	G	A	983.27	PASS	AC=6;AF=0.088;AN=68;DP=297;FS=0.0
46642	chrY	28565726	.	A	G	520.49	PASS	AC=10;AF=1.00;AN=10;DP=15;FS=0.00
46643	chrY	28567636	.	T	C	1017.06	PASS	AC=6;AF=0.086;AN=70;DP=362;FS=0.0
46644	chrY	28569918	.	C	T	6077.09	PASS	AC=62;AF=1.00;AN=62;DP=220;FS=0.0
46645	chrY	28572675	.	A	G	580.26	PASS	AC=6;AF=0.086;AN=70;DP=446;FS=0.0
46646	chrY	28572884	.	C	T	128.99	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
46647	chrY	28573108	.	A	T	256.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46648	chrY	28573166	.	A	G	96.08	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
46649	chrY	28573586	.	G	A	930.17	PASS	AC=6;AF=0.094;AN=64;DP=217;FS=0.0
46650	chrY	28574263	.	A	G	286.98	PASS	AC=2;AF=0.029;AN=68;DP=348;FS=0.0
46651	chrY	28577664	.	C	T	321.92	PASS	AC=3;AF=0.094;AN=32;BaseQRankSum=
46652	chrY	28577682	.	G	A	324.81	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
46653	chrY	28577695	.	C	T	324.63	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
46654	chrY	28577801	.	T	C	164.80	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
46655	chrY	28577805	.	C	G	161.48	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
46656	chrY	28577821	.	G	T	93.69	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
46657	chrY	28577923	.	A	G	390.39	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
46658	chrY	28577979	.	A	G	214.28	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
46659	chrY	28577990	.	G	A	358.26	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
46660	chrY	28578931	.	C	T	31.69	my_snp_filter	AC=2;AF=0.100;AN=20;DP=17
46661	chrY	28579946	.	C	T	39.94	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
46662	chrY	28579969	.	A	T	437.77	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
46663	chrY	28579995	.	G	A	433.65	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
46664	chrY	28580001	.	G	T	79.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

46665	chrY	28580027	.	T	A	537.45	PASS	AC=12;AF=0.207;AN=58;BaseQRankSum=
46666	chrY	28580052	.	A	G	173.34	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
46667	chrY	28580057	.	G	A	210.50	PASS	AC=5;AF=0.096;AN=52;BaseQRankSum=
46668	chrY	28580126	.	C	T	591.32	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
46669	chrY	28580131	.	A	C	569.44	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
46670	chrY	28580667	.	T	A	38.31	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46671	chrY	28580683	.	A	G	2062.66	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
46672	chrY	28580684	.	A	T	2064.54	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
46673	chrY	28580721	.	A	C	655.79	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46674	chrY	28580722	.	G	C	905.31	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
46675	chrY	28580779	.	G	T	5675.90	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
46676	chrY	28580784	.	T	C	5135.05	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
46677	chrY	28580806	.	G	A	457.19	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46678	chrY	28581875	.	A	G	35.89	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46679	chrY	28582274	.	A	G	264.86	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
46680	chrY	28582275	.	G	T	55.73	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
46681	chrY	28582279	.	C	T	262.45	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
46682	chrY	28582280	.	T	C	263.66	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
46683	chrY	28582303	.	T	C	346.14	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
46684	chrY	28582359	.	G	A	721.47	my_snp_filter	AC=10;AF=0.161;AN=62;BaseQ
46685	chrY	28582377	.	A	G	546.67	my_snp_filter	AC=8;AF=0.129;AN=62;BaseQ
46686	chrY	28582398	.	G	T	262.78	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
46687	chrY	28582403	.	T	C	654.16	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
46688	chrY	28582413	.	G	T	1001.08	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
46689	chrY	28582481	.	T	A	9325	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
46690	chrY	28582492	.	A	G	925.42	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
46691	chrY	28582495	.	G	A	12403.50	PASS	AC=27;AF=0.386;AN=70;BaseQ
46692	chrY	28582510	.	G	C	2079.78	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
46693	chrY	28582517	.	C	G	8660.23	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
46694	chrY	28582527	.	A	G	1735.68	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46695	chrY	28582545	.	T	C	17066.64	my_snp_filter	AC=16;AF=0.235;AN=70;BaseQ
46696	chrY	28582547	.	A	G	985.27	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
46697	chrY	28582566	.	C	G	19503.09	PASS	AC=27;AF=0.397;AN=68;BaseQ
46698	chrY	28582605	.	T	A,C	17638.78	PASS	AC=3,33;AF=0.043,0.471;AN=70;BaseQ
46699	chrY	28582612	.	G	A	1132.12	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
46700	chrY	28582622	.	G	A	26284.87	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
46701	chrY	28582676	.	G	A	35483.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46702	chrY	28582685	.	C	A	34337.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46703	chrY	28582716	.	A	G	31663.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46704	chrY	28582721	.	T	C	32796.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46705	chrY	28582781	.	A	C	307.33	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
46706	chrY	28582863	.	A	G	54410.76	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46707	chrY	28582865	.	A	G	54410.76	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46708	chrY	28582921	.	A	G	23468.54	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46709	chrY	28582932	.	G	A	22589.44	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46710	chrY	28582941	.	T	C	19936.88	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46711	chrY	28582945	.	G	T	51.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
46712	chrY	28582963	.	A	T	71.41	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46713	chrY	28582980	.	G	A	73.13	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
46714	chrY	28583015	.	G	T	4726.09	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
46715	chrY	28583047	.	T	C	1592.84	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
46716	chrY	28583050	.	T	C	18669.97	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46717	chrY	28583128	.	T	C	378.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
46718	chrY	28583130	.	T	G	3136.83	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46719	chrY	28583137	.	G	A	21408.06	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
46720	chrY	28583163	.	T	C	15946.19	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
46721	chrY	28583212	.	T	C	20789.08	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46722	chrY	28583229	.	T	C	18101.83	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46723	chrY	28583263	.	A	C	12145.13	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
46724	chrY	28583270	.	G	A	10923.68	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
46725	chrY	28583286	.	A	T	8575.88	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQRankSum=
46726	chrY	28583310	.	C	T	6388.01	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQRankSum=
46727	chrY	28583314	.	A	G	6177.28	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQRankSum=
46728	chrY	28583335	.	T	C	3521.44	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum=
46729	chrY	28583382	.	G	C	2810.84	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
46730	chrY	28583394	.	T	C	2483.91	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
46731	chrY	28583410	.	C	G	2772.64	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46732	chrY	28583415	.	T	C	3073.24	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46733	chrY	28583431	.	A	T	5570.60	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
46734	chrY	28583432	.	A	G	5567.11	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
46735	chrY	28583454	.	T	A	4794.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
46736	chrY	28583487	.	C	T	6995.04	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
46737	chrY	28583500	.	C	T	8218.76	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
46738	chrY	28583523	.	C	T	147.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
46739	chrY	28583527	.	T	C	161.56	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
46740	chrY	28583590	.	A	C	15894.84	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=

46741	chrY	28583599	.	G	C	6203.95	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
46742	chrY	28583601	.	G	A	14073.93		PASS AC=28;AF=0.400;AN=70;Base
46743	chrY	28583617	.	A	G	9573.54	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum=
46744	chrY	28583630	.	G	A	630.75	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
46745	chrY	28583640	.	G	C	6897.25	my_snp_filter	AC=12;AF=0.176;AN=68;Base
46746	chrY	28583682	.	G	C	557.12	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
46747	chrY	28583687	.	T	C	825.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
46748	chrY	28583689	.	G	A	109.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46749	chrY	28583694	.	C	G	320.07	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46750	chrY	28583727	.	G	A	12011.54		PASS AC=22;AF=0.314;AN=70;Base
46751	chrY	28583736	.	C	A	13381.58		PASS AC=22;AF=0.314;AN=70;Base
46752	chrY	28583822	.	T	C	30.70	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
46753	chrY	28583843	.	A	G	5796.03	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
46754	chrY	28583844	.	A	G	5787.04	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
46755	chrY	28583850	.	G	A	29441.82		PASS AC=36;AF=0.514;AN=70;Base
46756	chrY	28583879	.	G	A	3978.54	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
46757	chrY	28583892	.	T	C	31397.72		PASS AC=35;AF=0.500;AN=70;Base
46758	chrY	28583903	.	G	A	44691.86		PASS AC=35;AF=0.500;AN=70;Base
46759	chrY	28583946	.	A	G	1419.05	my_snp_filter	AC=20;AF=0.286;AN=70;Base
46760	chrY	28583948	.	G	C	47377.65		PASS AC=37;AF=0.529;AN=70;Base
46761	chrY	28583970	.	A	G	535.71	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46762	chrY	28584003	.	T	C	47717.80		PASS AC=40;AF=0.571;AN=70;Base
46763	chrY	28584050	.	C	A	219.06	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46764	chrY	28584081	.	T	C	12440.06		PASS AC=35;AF=0.515;AN=68;Base
46765	chrY	28584105	.	G	A	15225.57		PASS AC=25;AF=0.357;AN=70;Base
46766	chrY	28584119	.	T	A	290.11	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
46767	chrY	28584134	.	C	T	6193.03	my_snp_filter	AC=12;AF=0.171;AN=70;Base
46768	chrY	28584202	.	T	C	10614.90	my_snp_filter	AC=14;AF=0.200;AN=
46769	chrY	28584208	.	C	T	10767.29	my_snp_filter	AC=14;AF=0.206;AN=
46770	chrY	28584231	.	A	C	11386.08	my_snp_filter	AC=13;AF=0.186;AN=
46771	chrY	28584235	.	T	A	11697.97	my_snp_filter	AC=13;AF=0.186;AN=
46772	chrY	28584244	.	T	G	872.99	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
46773	chrY	28584250	.	G	T	1934.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
46774	chrY	28584300	.	A	G	2539.16	my_snp_filter	AC=9;AF=0.141;AN=64;BaseQ
46775	chrY	28584338	.	T	A	3088.41	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
46776	chrY	28584340	.	A	G	395.04	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
46777	chrY	28584348	.	T	C	2870.89	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
46778	chrY	28584370	.	A	T	130.26	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
46779	chrY	28584385	.	A	G	134.72	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46780	chrY	28584393	.	T	A	44.02	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46781	chrY	28585140	.	G	A	43.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46782	chrY	28585143	.	C	T	90.40	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46783	chrY	28585182	.	A	T	3096.82	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
46784	chrY	28585183	.	C	T	98.98	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
46785	chrY	28585184	.	A	T	3102.34	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
46786	chrY	28585213	.	T	C	3582.17	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
46787	chrY	28585246	.	A	T	9155.10	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
46788	chrY	28585248	.	A	T	9155.43	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
46789	chrY	28585305	.	C	A	5019.11	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
46790	chrY	28585326	.	C	G	5073.88	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
46791	chrY	28585353	.	C	T	215.07	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
46792	chrY	28585356	.	G	A	5053.01	my_snp_filter	AC=10;AF=0.147;AN=68;Base
46793	chrY	28585381	.	T	C	8761.95	my_snp_filter	AC=15;AF=0.214;AN=70;Base
46794	chrY	28585388	.	G	A	403.05	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46795	chrY	28585391	.	A	G	8923.12	my_snp_filter	AC=15;AF=0.221;AN=68;Base
46796	chrY	28585427	.	T	G	14125.23	my_snp_filter	AC=34;AF=0.486;AN=
46797	chrY	28585441	.	C	T	1009.79	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
46798	chrY	28585444	.	G	C	17274.68		my_snp_filter AC=34;AF=0.500;AN=
46799	chrY	28585456	.	C	A	21583.47		my_snp_filter AC=36;AF=0.514;AN=
46800	chrY	28585528	.	A	G	27791.68		PASS AC=37;AF=0.529;AN=70;Base
46801	chrY	28585558	.	C	T	42129.68		PASS AC=37;AF=0.529;AN=70;Base
46802	chrY	28585563	.	T	G	42004.14		PASS AC=37;AF=0.529;AN=70;Base
46803	chrY	28585573	.	C	T	3000.72	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
46804	chrY	28585594	.	T	C	28424.19		PASS AC=39;AF=0.557;AN=70;Base
46805	chrY	28585607	.	G	T	1639.16	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
46806	chrY	28585640	.	G	T	2159.18	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
46807	chrY	28585667	.	C	G	29034.58		my_snp_filter AC=31;AF=0.456;AN=
46808	chrY	28585669	.	G	A	29020.31		my_snp_filter AC=31;AF=0.456;AN=
46809	chrY	28585694	.	T	G	21621.03		my_snp_filter AC=26;AF=0.371;AN=
46810	chrY	28585703	.	G	A	20147.78		my_snp_filter AC=24;AF=0.343;AN=
46811	chrY	28585720	.	G	A	12415.65		my_snp_filter AC=17;AF=0.243;AN=
46812	chrY	28585743	.	C	T	1016.90	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
46813	chrY	28585750	.	G	A	7826.99	my_snp_filter	AC=21;AF=0.300;AN=70;Base
46814	chrY	28585761	.	G	A	143.23	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46815	chrY	28585762	.	C	G	6959.17	my_snp_filter	AC=21;AF=0.300;AN=70;Base
46816	chrY	28585775	.	T	C	5571.22	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=

46817	chrY	28585826	.	A	G	228.66	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46818	chrY	28585827	.	T	C	228.59	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46819	chrY	28585828	.	A	G	121.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
46820	chrY	28585872	.	G	A	509.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46821	chrY	28585927	.	T	G	2150.05	my_snp_filter	AC=15;AF=0.227;AN=66;Base
46822	chrY	28585957	.	C	A	1031.82	my_snp_filter	AC=10;AF=0.167;AN=60;Base
46823	chrY	28586000	.	A	G	43.07	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
46824	chrY	28586006	.	T	A	36.18	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
46825	chrY	28586023	.	G	A	99.69	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
46826	chrY	28586037	.	T	G	1019.38	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
46827	chrY	28586067	.	T	C	30.53	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
46828	chrY	28586130	.	T	A	637.06	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
46829	chrY	28586221	.	A	G	6891.32	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46830	chrY	28586283	.	C	A	86.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46831	chrY	28586285	.	T	G	696.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46832	chrY	28586287	.	G	T	622.50	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46833	chrY	28586353	.	A	T	51.37	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
46834	chrY	28586366	.	T	C	163.14	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
46835	chrY	28586376	.	A	T	32.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46836	chrY	28586399	.	C	T	1595.65	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
46837	chrY	28586411	.	G	C	1174.47	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
46838	chrY	28586429	.	T	C	2707.25	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
46839	chrY	28586459	.	A	G,T	6007.52	PASS	AC=7,6;AF=0.100,0.086;AN=70;BaseQ
46840	chrY	28586464	.	T	C	6867.58	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
46841	chrY	28586490	.	G	T	5821.86	my_snp_filter	AC=10;AF=0.147;AN=68;Base
46842	chrY	28586503	.	C	T	6214.14	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
46843	chrY	28586524	.	T	A	7038.73	my_snp_filter	AC=10;AF=0.152;AN=66;Base
46844	chrY	28586585	.	C	A,G	2644.29	my_snp_filter	AC=10,8;AF=0.217,0.174;AN=
46845	chrY	28586616	.	G	A	5787.30	my_snp_filter	AC=19;AF=0.500;AN=38;Base
46846	chrY	28586633	.	T	G	1954.25	my_snp_filter	AC=14;AF=0.318;AN=44;Base
46847	chrY	28586686	.	T	G	11157.96	my_snp_filter	AC=26;AF=0.565;AN=
46848	chrY	28586694	.	T	C	15045.37	my_snp_filter	AC=25;AF=0.543;AN=
46849	chrY	28586704	.	T	C,*	2618.92	PASS	AC=4,3;AF=0.222,0.167;AN=18;BaseQ
46850	chrY	28586711	.	T	A	14331.53	PASS	AC=18;AF=0.450;AN=40;Base
46851	chrY	28586714	.	T	A	5549.17	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
46852	chrY	28586722	.	A	G	27132.09	PASS	AC=26;AF=0.591;AN=44;Base
46853	chrY	28586729	.	A	T,*	9428.26	PASS	AC=1,16;AF=0.019,0.296;AN=54;Base
46854	chrY	28586775	.	C	T	89345.09	PASS	AC=40;AF=0.571;AN=70;Base
46855	chrY	28586776	.	A	G	89654.05	PASS	AC=40;AF=0.571;AN=70;Base
46856	chrY	28586782	.	G	A	89628.99	PASS	AC=41;AF=0.586;AN=70;Base
46857	chrY	28586795	.	T	C	4477.15	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
46858	chrY	28586874	.	G	A	29314.94	PASS	AC=45;AF=0.643;AN=70;Base
46859	chrY	28586890	.	A	T	3005.18	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
46860	chrY	28586903	.	T	A	22381.18	PASS	AC=44;AF=0.629;AN=70;Base
46861	chrY	28586959	.	T	C	16974.85	PASS	AC=28;AF=0.483;AN=58;Base
46862	chrY	28586986	.	T	A	486.16	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
46863	chrY	28587016	.	C	T	2981.05	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
46864	chrY	28587017	.	A	G	36254.26	PASS	AC=32;AF=0.457;AN=70;Base
46865	chrY	28587021	.	A	G	32963.26	PASS	AC=29;AF=0.414;AN=70;Base
46866	chrY	28587029	.	A	C	32627.97	PASS	AC=30;AF=0.429;AN=70;Base
46867	chrY	28587061	.	T	C	5951.36	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
46868	chrY	28587079	.	A	G	4414.03	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
46869	chrY	28587083	.	C	T	7192	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
46870	chrY	28587091	.	C	T	6492.85	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
46871	chrY	28587124	.	C	T	21432.95	PASS	AC=16;AF=0.229;AN=70;Base
46872	chrY	28587125	.	A	G	527.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46873	chrY	28587134	.	G	A	14773.39	PASS	AC=31;AF=0.443;AN=70;Base
46874	chrY	28587192	.	C	T	11798.87	PASS	AC=32;AF=0.457;AN=70;Base
46875	chrY	28587197	.	C	T	179.06	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
46876	chrY	28587230	.	A	T	128.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46877	chrY	28587232	.	T	C	29325.97	PASS	AC=38;AF=0.543;AN=70;Base
46878	chrY	28587258	.	T	C	8657.24	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46879	chrY	28587273	.	G	A	1348.74	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
46880	chrY	28587279	.	A	G	9273.60	PASS	AC=19;AF=0.306;AN=62;BaseQRankSum=
46881	chrY	28587282	.	G	T	8647.48	PASS	AC=18;AF=0.281;AN=64;BaseQRankSum=
46882	chrY	28587284	.	G	A	8140.21	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
46883	chrY	28587285	.	C	T	7819.49	PASS	AC=16;AF=0.258;AN=62;BaseQRankSum=
46884	chrY	28587290	.	G	A	2745.23	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
46885	chrY	28587295	.	G	A	62.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
46886	chrY	28587298	.	G	T	3392.02	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
46887	chrY	28587314	.	T	C	2729.31	my_snp_filter	AC=15;AF=0.214;AN=70;Base
46888	chrY	28587355	.	A	G	14945.59	PASS	AC=28;AF=0.400;AN=70;Base
46889	chrY	28587358	.	T	C	15267.26	PASS	AC=28;AF=0.400;AN=70;Base
46890	chrY	28587367	.	C	T	248.13	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
46891	chrY	28587409	.	A	T	359.56	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
46892	chrY	28587418	.	A	C	29773.15	PASS	AC=32;AF=0.457;AN=70;Base

46893	chrY	28587420	.	C	T	29936.15	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46894	chrY	28587459	.	T	C	38837.94	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46895	chrY	28587483	.	A	C	44812.71	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
46896	chrY	28587495	.	C	T	53050.14	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46897	chrY	28587496	.	A	G	29659.42	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
46898	chrY	28587511	.	C	T	48026.98	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46899	chrY	28587530	.	C	T	54285.44	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
46900	chrY	28587531	.	G	A	54510.08	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46901	chrY	28587559	.	T	G	33307.47	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
46902	chrY	28587588	.	G	A	1364.16	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
46903	chrY	28587640	.	C	G	59334.59	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46904	chrY	28587646	.	T	A	60453.52	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
46905	chrY	28587666	.	A	C	58093.25	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
46906	chrY	28587685	.	A	C	57919.26	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
46907	chrY	28587697	.	C	T	59024.01	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
46908	chrY	28587716	.	C	G	11593.48	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
46909	chrY	28587738	.	G	C	66304.24	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
46910	chrY	28587749	.	G	T	66454.66	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46911	chrY	28587793	.	T	A	790.93	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
46912	chrY	28587798	.	G	A	10613.29	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
46913	chrY	28587799	.	T	G	3312.73	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
46914	chrY	28587804	.	G	A	297.04	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
46915	chrY	28587818	.	T	C	77725.54	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46916	chrY	28587820	.	T	C	78468.54	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46917	chrY	28587827	.	C	T	79129.01	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
46918	chrY	28587830	.	T	A	78191.01	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
46919	chrY	28587859	.	G	C	50584.37	PASS	AC=44;AF=0.629;AN=70;BaseQRankSum=
46920	chrY	28587895	.	C	T	59719.06	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum=
46921	chrY	28587897	.	C	T	1001.08	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQRankSum=
46922	chrY	28587948	.	G	A	112.46	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
46923	chrY	28587971	.	G	A	37549.47	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46924	chrY	28587999	.	G	T	341.94	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46925	chrY	28588004	.	G	A	76.12	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
46926	chrY	28588005	.	A	G	299.58	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
46927	chrY	28588019	.	G	C	53054.95	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46928	chrY	28588026	.	A	T	52666.93	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
46929	chrY	28588044	.	C	G	151.21	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
46930	chrY	28588068	.	T	C	44395.97	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
46931	chrY	28588100	.	A	G	714.07	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
46932	chrY	28588105	.	A	T	1152.17	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQRankSum=
46933	chrY	28588116	.	G	A	7100.86	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
46934	chrY	28588128	.	G	A	34.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46935	chrY	28588137	.	T	A	106.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
46936	chrY	28588173	.	C	G	32356.12	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
46937	chrY	28588206	.	T	C	41100.35	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46938	chrY	28588215	.	G	C	5298.16	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
46939	chrY	28588218	.	A	G	39843.86	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
46940	chrY	28588244	.	T	C	28498.05	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
46941	chrY	28588249	.	A	T,G	22721.85	PASS	AC=22,10;AF=0.324,0.147;AN=68;BaseQRankSum=
46942	chrY	28588259	.	A	T	25180.21	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
46943	chrY	28588261	.	G	A	24395.54	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum=
46944	chrY	28588269	.	G	T	4522.26	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
46945	chrY	28588291	.	A	T	653.78	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46946	chrY	28588296	.	A	G	11026.83	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQRankSum=
46947	chrY	28588302	.	T	C	10465.51	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
46948	chrY	28588304	.	A	G	10339.73	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
46949	chrY	28588314	.	A	G,*	6100.47	PASS	AC=9,1;AF=0.129,0.014;AN=70;BaseQRankSum=
46950	chrY	28588320	.	A	G,*	6028.13	PASS	AC=11,1;AF=0.157,0.014;AN=70;BaseQRankSum=
46951	chrY	28588326	.	T	A	30.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
46952	chrY	28588346	.	G	A	14725.40	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
46953	chrY	28588355	.	A	T	15017.76	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
46954	chrY	28588365	.	C	A	258.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46955	chrY	28588446	.	G	T	8126.46	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQRankSum=
46956	chrY	28588453	.	T	C	7761.23	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQRankSum=
46957	chrY	28588477	.	G	A	4670.74	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
46958	chrY	28588479	.	T	C	4670.32	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQRankSum=
46959	chrY	28588503	.	A	G	487.07	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46960	chrY	28588504	.	G	C	486.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
46961	chrY	28588644	.	T	C	343.27	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
46962	chrY	28588645	.	G	A	343.96	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
46963	chrY	28588657	.	A	G	40.56	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
46964	chrY	28588722	.	T	C	72.47	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46965	chrY	28588986	.	G	T	5873.88	PASS	AC=50;AF=0.735;AN=68;DP=323;FS=0.0
46966	chrY	28588991	.	T	G	816.28	PASS	AC=6;AF=0.086;AN=70;DP=291;FS=0.0
46967	chrY	28590278	.	A	G	11159.94	PASS	AC=68;AF=1.00;AN=68;BaseQRankSum=
46968	chrY	28590899	.	A	T	938	PASS	AC=6;AF=0.086;AN=70;DP=524;FS=0.0

46969	chrY	28593083	.	A	G	225.27	PASS	AC=2;AF=0.032;AN=62;DP=291;FS=0.0
46970	chrY	28596691	.	G	A	593.96	PASS	AC=6;AF=0.333;AN=18;DP=119;FS=0.0
46971	chrY	28597630	.	C	T	149.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
46972	chrY	28598170	.	A	C	628.71	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
46973	chrY	28598191	.	G	A	2876.39	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
46974	chrY	28598245	.	A	G	201.78	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
46975	chrY	28601602	.	T	C	67.90	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
46976	chrY	28601975	.	A	G	2741.86	PASS	AC=18;AF=1.00;AN=18;DP=123;FS=0.0
46977	chrY	28604414	.	A	T	145.23	PASS	AC=8;AF=0.148;AN=54;BaseQRankSum=
46978	chrY	28604634	.	G	T	377.80	PASS	AC=2;AF=0.031;AN=64;DP=217;FS=0.0
46979	chrY	28606269	.	C	T	3568.86	PASS	AC=18;AF=1.00;AN=18;DP=143;FS=0.0
46980	chrY	28609194	.	C	T	1763.50	PASS	AC=30;AF=1.00;AN=30;DP=102;FS=0.0
46981	chrY	28611239	.	C	G	462.60	PASS	AC=6;AF=0.115;AN=52;DP=149;FS=0.0
46982	chrY	28612323	.	G	A	9876.94	PASS	AC=64;AF=1.00;AN=64;DP=343;FS=0.0
46983	chrY	28613785	.	T	G	30.24	PASS	AC=2;AF=0.053;AN=38;DP=130;FS=0.0
46984	chrY	28628982	.	G	C	879.40	PASS	AC=6;AF=0.088;AN=68;DP=363;FS=0.0
46985	chrY	28629677	.	C	T	493.76	PASS	AC=6;AF=0.088;AN=68;DP=355;FS=0.0
46986	chrY	28630057	.	T	C	702.35	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
46987	chrY	28638522	.	G	A	2070.33	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
46988	chrY	28638611	.	T	C	52.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
46989	chrY	28638614	.	T	C	689.30	PASS	AC=6;AF=0.086;AN=70;DP=469;FS=0.0
46990	chrY	28638648	.	A	C	1107.33	PASS	AC=6;AF=0.086;AN=70;DP=484;FS=0.0
46991	chrY	28638816	.	T	C	7217.09	PASS	AC=64;AF=1.00;AN=64;DP=265;FS=0.0
46992	chrY	28641658	.	G	C	12033	PASS	AC=68;AF=1.00;AN=68;DP=398;FS=0.0
46993	chrY	28647622	.	A	G	4194.13	PASS	AC=46;AF=0.719;AN=64;DP=282;FS=0.0
46994	chrY	28648101	.	C	A	471.07	PASS	AC=6;AF=0.086;AN=70;DP=423;FS=0.0
46995	chrY	28650343	.	G	C	16135.69	PASS	AC=58;AF=0.829;AN=70;DP=6
46996	chrY	28651317	.	T	C	640.14	PASS	AC=6;AF=0.086;AN=70;DP=508;FS=0.0
46997	chrY	28653225	.	C	T	866.06	PASS	AC=6;AF=0.214;AN=28;DP=134;FS=0.0
46998	chrY	28653544	.	A	G	142.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
46999	chrY	28655471	.	C	A	7486.05	PASS	AC=56;AF=1.00;AN=56;DP=253;FS=0.0
47000	chrY	28656610	.	A	G	9448.16	PASS	AC=46;AF=0.657;AN=70;DP=515;FS=0.0
47001	chrY	28657436	.	C	T	1164.61	PASS	AC=6;AF=0.086;AN=70;DP=607;FS=0.0
47002	chrY	28661198	.	A	G	9523.11	PASS	AC=58;AF=0.829;AN=70;DP=458;FS=0.0
47003	chrY	28661676	.	T	C	891.42	PASS	AC=6;AF=0.086;AN=70;DP=430;FS=0.0
47004	chrY	28664607	.	T	C	2798.30	PASS	AC=38;AF=0.760;AN=50;DP=186;FS=0.0
47005	chrY	28669130	.	C	T	3023.11	PASS	AC=38;AF=0.613;AN=62;DP=294;FS=0.0
47006	chrY	28670117	.	T	C	6163.26	PASS	AC=56;AF=1.00;AN=56;DP=236;FS=0.0
47007	chrY	28673059	.	G	A	656.03	PASS	AC=6;AF=0.088;AN=68;DP=386;FS=0.0
47008	chrY	28674360	.	G	C	260.30	PASS	AC=2;AF=0.029;AN=70;DP=671;FS=0.0
47009	chrY	28677364	.	A	G	744.75	PASS	AC=6;AF=0.086;AN=70;DP=561;FS=0.0
47010	chrY	28678641	.	T	C	6630.17	PASS	AC=64;AF=1.00;AN=64;DP=273;FS=0.0
47011	chrY	28679492	.	A	C	3986.32	PASS	AC=48;AF=0.727;AN=66;DP=241;FS=0.0
47012	chrY	28693346	.	C	T	945.83	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
47013	chrY	28693795	.	A	G	987.89	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
47014	chrY	28693850	.	A	G	721.76	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
47015	chrY	28693905	.	A	G	193.03	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47016	chrY	28695788	.	C	G	778.42	PASS	AC=6;AF=0.086;AN=70;DP=412;FS=0.0
47017	chrY	28697493	.	C	G	1067.71	PASS	AC=6;AF=0.088;AN=68;DP=318;FS=0.0
47018	chrY	28698742	.	G	A	33.87	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47019	chrY	28698745	.	T	C	34.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47020	chrY	28698750	.	C	T	36.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47021	chrY	28699018	.	G	A	5700.63	PASS	AC=52;AF=0.813;AN=64;DP=273;FS=0.0
47022	chrY	28708402	.	G	A	541.25	PASS	AC=2;AF=0.029;AN=70;DP=709;FS=0.0
47023	chrY	28708424	.	G	A	97.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47024	chrY	28708573	.	T	C	36.66	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47025	chrY	28709160	.	T	C	32.66	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
47026	chrY	28709228	.	A	C	5458.76	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
47027	chrY	28709245	.	G	T	787.64	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
47028	chrY	28709251	.	C	T	8039.55	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
47029	chrY	28709252	.	C	A	8039.55	PASS	AC=33;AF=0.485;AN=68;BaseQRankSum=
47030	chrY	28709271	.	C	A	7351.76	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
47031	chrY	28709273	.	C	T	45.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47032	chrY	28709275	.	G	C	7807.87	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
47033	chrY	28709316	.	A	T	10868.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
47034	chrY	28709338	.	G	A	1806.48	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
47035	chrY	28709343	.	A	G	12603.81	PASS	AC=35;AF=0.500;AN=70;BaseQ
47036	chrY	28709442	.	C	T	4437.77	my_snp_filter	AC=29;AF=0.426;AN=68;BaseQ
47037	chrY	28709481	.	A	G	279.84	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47038	chrY	28709494	.	G	A	82.96	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47039	chrY	28709497	.	C	T	162.90	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47040	chrY	28709570	.	T	C	133.96	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47041	chrY	28709643	.	A	G	153.20	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47042	chrY	28715939	.	A	G	1365.81	PASS	AC=6;AF=0.091;AN=66;DP=265;FS=0.0
47043	chrY	28716516	.	T	C	30.81	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47044	chrY	28720137	.	T	C	779.47	PASS	AC=14;AF=0.350;AN=40;BaseQRankSum=

47045	chrY	28720907	.	A	G	1177.01	PASS	AC=6;AF=0.091;AN=66;DP=311;FS=0.0
47046	chrY	28721750	.	C	T	50.56	PASS	AC=2;AF=0.059;AN=34;DP=128;FS=0.0
47047	chrY	28722371	.	A	G	621.10	PASS	AC=6;AF=0.231;AN=26;DP=141;FS=0.0
47048	chrY	28724176	.	T	G	34.22	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
47049	chrY	28726414	.	A	C	1049.30	PASS	AC=6;AF=0.086;AN=70;DP=417;FS=0.0
47050	chrY	28728433	.	C	A	1068.65	PASS	AC=6;AF=0.086;AN=70;DP=686;FS=0.0
47051	chrY	28731080	.	C	T	1051.69	PASS	AC=6;AF=0.094;AN=64;DP=286;FS=0.0
47052	chrY	28731210	.	G	T	8251.93	PASS	AC=52;AF=0.743;AN=70;DP=436;FS=0.
47053	chrY	28731917	.	C	A	22529.91	PASS	AC=70;AF=1.00;AN=70;DP=75
47054	chrY	28733101	.	G	C	16180.93	PASS	AC=70;AF=1.00;AN=70;DP=55
47055	chrY	28733706	.	G	A	3142.22	PASS	AC=48;AF=0.706;AN=68;DP=241;FS=0.
47056	chrY	28739098	.	A	G	9046.19	PASS	AC=52;AF=0.743;AN=70;DP=500;FS=0.
47057	chrY	28749379	.	C	T	1628.18	PASS	AC=6;AF=0.333;AN=18;DP=182;FS=0.0
47058	chrY	28750085	.	T	C	1117.19	PASS	AC=6;AF=0.333;AN=18;DP=158;FS=0.0
47059	chrY	28752346	.	C	T	1287.63	PASS	AC=6;AF=0.273;AN=22;DP=173;FS=0.0
47060	chrY	28755129	.	A	G	51.39	PASS	AC=2;AF=0.063;AN=32;DP=186;FS=0.0
47061	chrY	28755137	.	A	G	50.46	PASS	AC=2;AF=0.045;AN=44;DP=187;FS=0.0
47062	chrY	28757495	.	A	G	40.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47063	chrY	28757564	.	G	T	180.60	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47064	chrY	28757590	.	A	G	576.41	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
47065	chrY	28757608	.	G	A	713.80	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
47066	chrY	28757611	.	T	G	709.98	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
47067	chrY	28757649	.	A	G	119.94	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47068	chrY	28757651	.	G	T	118.37	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47069	chrY	28758082	.	A	G	486.45	PASS	AC=4;AF=0.059;AN=68;DP=251;FS=0.0
47070	chrY	28758193	.	A	G	7502.12	PASS	AC=62;AF=1.00;AN=62;DP=262;FS=0.0
47071	chrY	28760064	.	A	T	1158.74	PASS	AC=6;AF=0.086;AN=70;DP=515;FS=0.0
47072	chrY	28760827	.	C	T	147.92	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47073	chrY	28765030	.	G	A	1105.26	PASS	AC=6;AF=0.086;AN=70;DP=450;FS=0.0
47074	chrY	28765730	.	C	A	551.92	PASS	AC=6;AF=0.086;AN=70;DP=348;FS=0.0
47075	chrY	28765856	.	G	A	1015.76	PASS	AC=6;AF=0.086;AN=70;DP=490;FS=0.0
47076	chrY	28766196	.	G	A	118.09	PASS	AC=4;AF=0.067;AN=60;DP=218;FS=0.0
47077	chrY	28767811	.	A	G	33.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47078	chrY	28771116	.	G	C	16663.96	PASS	AC=68;AF=1.00;AN=68;DP=55
47079	chrY	28773169	.	G	A	956.22	PASS	AC=6;AF=0.086;AN=70;DP=450;FS=0.0
47080	chrY	28773328	.	G	T	268.33	PASS	AC=2;AF=0.029;AN=70;DP=318;FS=0.0
47081	chrY	28776352	.	A	G	92.90	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47082	chrY	28776391	.	G	A	3346	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
47083	chrY	28776400	.	T	C	3565.90	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
47084	chrY	28776493	.	G	A	862.92	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
47085	chrY	28776879	.	T	G	1091.85	PASS	AC=6;AF=0.088;AN=68;DP=305;FS=0.0
47086	chrY	28779301	.	G	C	19119.44	PASS	AC=46;AF=0.657;AN=70;DP=8
47087	chrY	28779832	.	G	A	46.90	PASS	AC=2;AF=0.037;AN=54;DP=189;FS=0.0
47088	chrY	28780141	.	G	C	921.43	PASS	AC=6;AF=0.176;AN=34;DP=148;FS=0.0
47089	chrY	28780459	.	A	T	1140.67	PASS	AC=6;AF=0.086;AN=70;DP=677;FS=0.0
47090	chrY	28780719	.	G	A	224.69	PASS	AC=2;AF=0.029;AN=70;DP=451;FS=0.0
47091	chrY	28780767	.	A	C	692.66	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
47092	chrY	28780823	.	T	A	1404.22	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
47093	chrY	28780856	.	T	A	1465.77	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
47094	chrY	28780870	.	C	A	1277.64	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
47095	chrY	28780883	.	G	A	892.86	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
47096	chrY	28782419	.	A	G	1342	PASS	AC=6;AF=0.086;AN=70;DP=337;FS=0.0
47097	chrY	28782777	.	C	T	884.90	PASS	AC=4;AF=0.057;AN=70;DP=417;FS=0.0
47098	chrY	28784195	.	A	G	271.98	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum=
47099	chrY	28784251	.	G	T	97.99	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
47100	chrY	28784393	.	G	A	44.74	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47101	chrY	28784406	.	T	C	271.09	PASS	AC=3;AF=0.136;AN=22;BaseQRankSum=
47102	chrY	28784408	.	G	A	190.70	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
47103	chrY	28784418	.	A	G	106.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47104	chrY	28784423	.	A	T	127.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47105	chrY	28784428	.	T	A	338.83	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
47106	chrY	28784448	.	G	T	161.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47107	chrY	28784660	.	G	A	103.49	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47108	chrY	28784770	.	G	A	71.60	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47109	chrY	28784773	.	T	C	74.31	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47110	chrY	28784837	.	G	C	72.28	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47111	chrY	28784838	.	T	A	58.20	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47112	chrY	28784840	.	G	C	60.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47113	chrY	28784842	.	A	G	61.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47114	chrY	28784860	.	G	T	60.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47115	chrY	28784877	.	C	T	75.55	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
47116	chrY	28784882	.	A	C	38.16	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47117	chrY	28784958	.	A	T	79.76	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
47118	chrY	28784959	.	T	C	78.30	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
47119	chrY	28784963	.	C	A	75.19	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
47120	chrY	28784969	.	A	C	45.21	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=

47121	chrY	28785127	.	C	A	246.95	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
47122	chrY	28785132	.	A	T	211.72	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
47123	chrY	28785133	.	G	C	215.06	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
47124	chrY	28785146	.	G	A	211.45	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
47125	chrY	28785148	.	A	G	213.44	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
47126	chrY	28785166	.	A	G	42.03	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47127	chrY	28785463	.	G	T	215.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47128	chrY	28785476	.	T	A	89.13	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47129	chrY	28785480	.	T	A	87.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47130	chrY	28785563	.	A	G	136.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47131	chrY	28785589	.	G	A	100.98	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47132	chrY	28785741	.	G	T	35.80	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47133	chrY	28785742	.	G	A	36.15	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47134	chrY	28785745	.	T	A	31.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47135	chrY	28785750	.	T	A	102.69	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47136	chrY	28785752	.	G	A	37.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47137	chrY	28785774	.	G	C	126.05	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47138	chrY	28785981	.	G	C	287.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47139	chrY	28785991	.	G	C	124.67	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47140	chrY	28785993	.	A	G,T	543.70	PASS	AC=5,5;AF=0.104,0.104;AN=48;BaseQ
47141	chrY	28786368	.	T	A	252	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
47142	chrY	28786382	.	A	G	209.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
47143	chrY	28786400	.	G	T	38.32	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47144	chrY	28786684	.	G	C	72.08	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47145	chrY	28786686	.	A	G	173.85	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47146	chrY	28786688	.	G	C	276.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47147	chrY	28786691	.	A	T	71.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47148	chrY	28786694	.	G	C	37.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47149	chrY	28786696	.	A	G	72.78	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47150	chrY	28786716	.	A	T	114.61	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
47151	chrY	28786718	.	T	G	319.93	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
47152	chrY	28786721	.	A	G	199.01	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47153	chrY	28786726	.	G	A	68.26	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47154	chrY	28786736	.	A	G	41.45	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
47155	chrY	28787017	.	G	T	65.35	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47156	chrY	28787094	.	G	A	14540.03	PASS	AC=58;AF=1.00;AN=58;DP=34
47157	chrY	28787127	.	G	A	16223.03	PASS	AC=64;AF=1.00;AN=64;DP=38
47158	chrY	28787141	.	C	G	15243	PASS	AC=62;AF=1.00;AN=62;DP=359;FS=0.0
47159	chrY	28787261	.	A	C	44.24	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47160	chrY	28787265	.	A	C	37.70	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47161	chrY	28787274	.	C	G	179.27	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
47162	chrY	28787315	.	C	A	413.60	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
47163	chrY	28787324	.	G	A	112.13	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47164	chrY	28787326	.	T	A	226.27	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
47165	chrY	28787329	.	G	C	110.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47166	chrY	28787336	.	A	G	57.85	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47167	chrY	28787341	.	G	A	36.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47168	chrY	28787566	.	A	T,*	952.36	PASS	AC=6,5;AF=0.136,0.114;AN=44;BaseQ
47169	chrY	28787585	.	C	A,*	479.19	PASS	AC=2,2;AF=0.043,0.043;AN=46;BaseQ
47170	chrY	28787590	.	G	A,*	356.20	PASS	AC=2,5;AF=0.029,0.071;AN=70;BaseQ
47171	chrY	28787600	.	T	G	178.24	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47172	chrY	28787611	.	T	A	102.15	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47173	chrY	28787902	.	G	A	1231.87	PASS	AC=6;AF=0.091;AN=66;DP=1013;FS=0.
47174	chrY	28788011	.	T	A	43.46	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47175	chrY	28788013	.	G	A	69.66	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47176	chrY	28788018	.	A	G	256.23	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47177	chrY	28788037	.	G	T	68.11	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47178	chrY	28788043	.	C	G	40.30	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
47179	chrY	28788050	.	A	G	96.36	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47180	chrY	28788067	.	A	G	101.77	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
47181	chrY	28788306	.	T	A	360.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47182	chrY	28788315	.	G	T	42.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47183	chrY	28788316	.	A	T	42.74	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47184	chrY	28788317	.	G	A	41.79	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47185	chrY	28788326	.	T	A	47.50	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47186	chrY	28788333	.	T	G	147.12	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47187	chrY	28788491	.	C	T	2427.90	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
47188	chrY	28788495	.	A	T	2883.56	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
47189	chrY	28788501	.	C	T	3066.47	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
47190	chrY	28788507	.	G	A	3549.09	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
47191	chrY	28788521	.	A	G	3629.08	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
47192	chrY	28788526	.	A	T	3647.04	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
47193	chrY	28788556	.	G	T	370.66	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
47194	chrY	28788643	.	G	T	23557.95	PASS	AC=66;AF=1.00;AN=66;BaseQ
47195	chrY	28788695	.	T	A	18565.17	PASS	AC=63;AF=0.900;AN=70;BaseQ
47196	chrY	28788766	.	G	C	301.30	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=

47197	chrY	28788767	.	G	A	315.20	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
47198	chrY	28788771	.	G	C	511.03	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
47199	chrY	28788774	.	A	G	62.04	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
47200	chrY	28788776	.	G	T	41.66	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
47201	chrY	28788777	.	C	G	285.01	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
47202	chrY	28788785	.	T	A	221.65	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
47203	chrY	28788965	.	T	G	32.21	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47204	chrY	28788967	.	G	T	34.97	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47205	chrY	28788981	.	G	T	661.79	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
47206	chrY	28788984	.	T	A	649.43	PASS	AC=8;AF=0.190;AN=42;BaseQRankSum=
47207	chrY	28788990	.	T	A	626.75	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
47208	chrY	28788997	.	G	A	42.72	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
47209	chrY	28789000	.	T	C	619.67	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
47210	chrY	28789001	.	G	A	639.80	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
47211	chrY	28789004	.	G	A	731.35	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
47212	chrY	28789011	.	T	G	567.53	PASS	AC=7;AF=0.292;AN=24;BaseQRankSum=
47213	chrY	28789029	.	G	T	396.54	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
47214	chrY	28789478	.	G	A	1329.98	PASS	AC=4;AF=0.057;AN=70;DP=3135;FS=0.
47215	chrY	28789498	.	G	A	537.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47216	chrY	28789693	.	T	C	112.97	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47217	chrY	28789765	.	G	A	528.87	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47218	chrY	28789771	.	A	T	517.47	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47219	chrY	28789778	.	T	C	348.02	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47220	chrY	28789874	.	A	T	69.01	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47221	chrY	28789918	.	G	A	31.19	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
47222	chrY	28790316	.	G	C	765.11	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
47223	chrY	28790328	.	A	G	468.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47224	chrY	28790337	.	A	C	250.82	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47225	chrY	28790346	.	C	G	2142.24	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
47226	chrY	28790395	.	G	C	3257.70	my_snp_filter	AC=20;AF=0.286;AN=70;Base
47227	chrY	28790409	.	A	T	13729.53	my_snp_filter	AC=34;AF=0.486;AN=
47228	chrY	28790435	.	G	T	3198.46	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
47229	chrY	28790452	.	A	G	3134.62	my_snp_filter	AC=21;AF=0.300;AN=70;Base
47230	chrY	28790545	.	G	A	720.69	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47231	chrY	28790546	.	A	G	2169.80	my_snp_filter	AC=15;AF=0.214;AN=70;Base
47232	chrY	28790552	.	A	G	216.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47233	chrY	28790555	.	G	A	104.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47234	chrY	28790573	.	G	C	81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47235	chrY	28790576	.	G	A	232.47	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47236	chrY	28790577	.	A	T	199.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47237	chrY	28790579	.	T	A	82.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47238	chrY	28790604	.	C	T	5349.87	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
47239	chrY	28790621	.	G	T	3175.02	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
47240	chrY	28790628	.	A	T	70.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47241	chrY	28790652	.	T	C	3270.92	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
47242	chrY	28790697	.	A	G	4902.64	my_snp_filter	AC=30;AF=0.500;AN=60;Base
47243	chrY	28790705	.	C	A	4325.32	my_snp_filter	AC=28;AF=0.483;AN=58;Base
47244	chrY	28790750	.	G	A	1066.66	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47245	chrY	28790754	.	T	G	918	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
47246	chrY	28790782	.	G	A	239.09	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
47247	chrY	28790812	.	T	C	346.41	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47248	chrY	28790816	.	C	T	343.65	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
47249	chrY	28790849	.	C	G	259.41	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
47250	chrY	28790857	.	T	A	89.58	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47251	chrY	28790866	.	A	G	94.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47252	chrY	28790874	.	T	G	95.46	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
47253	chrY	28790878	.	A	G	137.35	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47254	chrY	28790884	.	T	G	216.34	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
47255	chrY	28790899	.	G	C	236.80	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47256	chrY	28790904	.	C	A	246.13	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
47257	chrY	28790905	.	C	T,A	4979.26	my_snp_filter	AC=17,4;AF=0.258,0.061;AN=
47258	chrY	28790907	.	G	C	294.84	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47259	chrY	28790914	.	C	A	290.45	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47260	chrY	28790919	.	A	C	297.43	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47261	chrY	28790931	.	T	A	306.89	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
47262	chrY	28790954	.	G	T	285.62	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47263	chrY	28790962	.	C	T	266.37	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
47264	chrY	28790987	.	C	T	69.83	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
47265	chrY	28791017	.	A	T	305.94	my_snp_filter	AC=7;AF=0.121;AN=58;BaseQ
47266	chrY	28791061	.	G	T	1214.64	my_snp_filter	AC=18,3;AF=0.333,0.054;Base
47267	chrY	28791093	.	G	C,A	2764.84	my_snp_filter	AC=27,3;AF=0.450,0.050;AN=
47268	chrY	28791131	.	T	A	4397.43	my_snp_filter	AC=46;AF=0.742;AN=62;Base
47269	chrY	28791141	.	T	C	590.30	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
47270	chrY	28791216	.	T	A	4882.10	my_snp_filter	AC=26;AF=0.406;AN=64;Base
47271	chrY	28791221	.	T	A	4751.34	my_snp_filter	AC=25;AF=0.417;AN=60;Base
47272	chrY	28791231	.	A	T	4193.88	my_snp_filter	AC=20;AF=0.370;AN=54;Base

47273	chrY	28791241	.	T	A	4121.46	my_snp_filter	AC=19;AF=0.339;AN=56;BaseQ
47274	chrY	28791252	.	A	G	4314.85	PASS	AC=17;AF=0.340;AN=50;BaseQRankSum=
47275	chrY	28791271	.	T	A	5271.60	PASS	AC=23;AF=0.479;AN=48;BaseQRankSum=
47276	chrY	28791300	.	G	A	4600.79	PASS	AC=31;AF=0.534;AN=58;BaseQRankSum=
47277	chrY	28791400	.	A	T	54.90	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
47278	chrY	28791407	.	G	C	161.24	my_snp_filter	AC=4;AF=0.080;AN=50;BaseQ
47279	chrY	28791411	.	T	C	1693.75	my_snp_filter	AC=6;AF=0.120;AN=50;BaseQ
47280	chrY	28791436	.	G	T	1313.63	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
47281	chrY	28791483	.	G	A	771.43	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47282	chrY	28791520	.	A	G	332.26	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47283	chrY	28791555	.	T	A	102.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47284	chrY	28791556	.	T	G	90.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47285	chrY	28791685	.	G	A	710	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
47286	chrY	28791691	.	T	G	1580.34	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47287	chrY	28791702	.	C	A	1622.05	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47288	chrY	28791719	.	T	A	303.15	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47289	chrY	28791725	.	A	G	992.64	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
47290	chrY	28791735	.	G	T	928.25	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
47291	chrY	28791736	.	G	T	793.55	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47292	chrY	28791753	.	C	T	5498.42	PASS	AC=47;AF=0.734;AN=64;BaseQRankSum=
47293	chrY	28791760	.	G	C	488.10	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
47294	chrY	28791769	.	C	T	1483.27	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47295	chrY	28791776	.	G	T,C	1764.81	my_snp_filter	AC=2,6;AF=0.030,0.091;AN=
47296	chrY	28791783	.	A	C,T	5360.71	my_snp_filter	AC=13,6;AF=0.241,0.111;AN=
47297	chrY	28791784	.	T	A	83.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47298	chrY	28791791	.	C	G	815.83	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47299	chrY	28791793	.	A	G	5724.75	my_snp_filter	AC=20;AF=0.400;AN=50;BaseQ
47300	chrY	28791816	.	C	G	107.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47301	chrY	28791850	.	G	C	5236.85	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
47302	chrY	28791875	.	G	C	255.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47303	chrY	28791876	.	T	G	341	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47304	chrY	28791903	.	G	A	34.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47305	chrY	28792030	.	T	G	89.67	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47306	chrY	28792042	.	G	A	154.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47307	chrY	28792057	.	G	T	640.35	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47308	chrY	28792064	.	G	A	308.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47309	chrY	28792110	.	C	G	28188.64	PASS	AC=31;AF=0.443;AN=70;BaseQ
47310	chrY	28792215	.	G	C	1865.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47311	chrY	28792220	.	A	G	194.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47312	chrY	28792265	.	C	G	3920.61	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
47313	chrY	28792268	.	T	C	30348.30	my_snp_filter	AC=37;AF=0.529;AN=
47314	chrY	28792269	.	G	T	151.51	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47315	chrY	28792284	.	C	G	106.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47316	chrY	28792289	.	C	G	56.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47317	chrY	28792308	.	T	C	36.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47318	chrY	28792319	.	C	G,*	1388.89	PASS	AC=7,4;AF=0.100,0.057;AN=70;BaseQ
47319	chrY	28792344	.	C	G	469.70	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
47320	chrY	28792406	.	C	G	3334.16	my_snp_filter	AC=10;AF=0.147;AN=68;BaseQ
47321	chrY	28792466	.	T	C	284.43	my_snp_filter	AC=4;AF=0.222;AN=18;BaseQ
47322	chrY	28792482	.	T	G	19477.47	my_snp_filter	AC=49;AF=0.766;AN=
47323	chrY	28792487	.	C	G	19758.33	my_snp_filter	AC=50;AF=0.758;AN=
47324	chrY	28792501	.	A	T	477.35	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47325	chrY	28792507	.	G	C	598.34	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47326	chrY	28792624	.	C	G	22792.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
47327	chrY	28792675	.	G	A	826.39	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47328	chrY	28792697	.	T	C	499.05	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47329	chrY	28792729	.	T	A	53251.64	PASS	AC=34;AF=0.486;AN=70;BaseQ
47330	chrY	28792735	.	T	C	40986.72	PASS	AC=33;AF=0.471;AN=70;BaseQ
47331	chrY	28792745	.	T	A	77229.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
47332	chrY	28792747	.	C	T	9237.24	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
47333	chrY	28792777	.	A	G	49606.72	my_snp_filter	AC=35;AF=0.500;AN=
47334	chrY	28792783	.	C	G	177.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47335	chrY	28792786	.	C	A	218.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47336	chrY	28792807	.	T	C	207.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47337	chrY	28792815	.	T	G	143.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47338	chrY	28792816	.	G	T	131.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47339	chrY	28792820	.	T	G	133.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47340	chrY	28792829	.	A	C	143.09	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47341	chrY	28792830	.	C	T	22307.97	PASS	AC=19;AF=0.271;AN=70;BaseQ
47342	chrY	28792838	.	A	G	18084.93	PASS	AC=17;AF=0.243;AN=70;BaseQ
47343	chrY	28792863	.	G	A,*	3780.30	PASS	AC=13,1;AF=0.186,0.014;AN=70;BaseQ
47344	chrY	28792866	.	C	A,G,*	20728.72	PASS	AC=26,8,1;AF=0.371,0.114,0.014;AN=70;BaseQ
47345	chrY	28792869	.	T	G	5175.93	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
47346	chrY	28792874	.	G	A	157.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47347	chrY	28792879	.	C	G	45.95	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47348	chrY	28792891	.	A	G	10107.50	PASS	AC=28;AF=0.400;AN=70;BaseQ

47349	chrY	28792915	.	T	C	138.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47350	chrY	28792932	.	T	C	33953.78	my_snp_filter	AC=35;AF=0.500;AN=
47351	chrY	28792971	.	G	A	6296.39	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
47352	chrY	28792982	.	A	C	507.96	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
47353	chrY	28793003	.	C	A	12004.79	PASS	AC=16;AF=0.229;AN=70;BaseQ
47354	chrY	28793005	.	T	G	3977.40	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
47355	chrY	28793019	.	T	A	6514.94	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
47356	chrY	28793020	.	C	G	43.09	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47357	chrY	28793021	.	G	A	3686.49	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
47358	chrY	28793022	.	G	C	6273.39	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
47359	chrY	28793027	.	A	T	42.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47360	chrY	28793028	.	A	G	40.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47361	chrY	28793030	.	G	C	4077.67	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
47362	chrY	28793040	.	A	C	2729.95	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
47363	chrY	28793045	.	C	A	31.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47364	chrY	28793049	.	T	G,A	36844.09	my_snp_filter	AC=44,6;AF=0.629,0.629
47365	chrY	28793052	.	T	G	42368.37	my_snp_filter	AC=46;AF=0.676;AN=
47366	chrY	28793057	.	A	T	103.60	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47367	chrY	28793064	.	A	T	6598.67	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47368	chrY	28793076	.	G	A	5854.49	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47369	chrY	28793098	.	T	G	1361.43	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
47370	chrY	28793106	.	C	G	499.38	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47371	chrY	28793108	.	T	A	27852.94	my_snp_filter	AC=35;AF=0.500;AN=
47372	chrY	28793132	.	C	G	13030.17	PASS	AC=31;AF=0.456;AN=68;BaseQ
47373	chrY	28793166	.	G	T	1034.50	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47374	chrY	28793171	.	G	A	310.33	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47375	chrY	28793189	.	C	T	277.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47376	chrY	28793190	.	A	G	1095.44	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47377	chrY	28793202	.	A	C	274.36	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47378	chrY	28793205	.	G	T	109.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47379	chrY	28793206	.	G	T	110.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47380	chrY	28793223	.	T	G	259.49	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47381	chrY	28793226	.	T	G	265.12	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47382	chrY	28793228	.	A	G	393.57	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47383	chrY	28793234	.	T	A	242.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47384	chrY	28793236	.	C	G	243.38	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47385	chrY	28793237	.	T	A	238.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47386	chrY	28793243	.	T	A	232.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47387	chrY	28793252	.	A	G	236.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47388	chrY	28793253	.	C	G	238.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47389	chrY	28793256	.	C	G	241.18	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47390	chrY	28793262	.	A	G	56.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47391	chrY	28793304	.	G	T	149.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47392	chrY	28793319	.	G	T	64.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47393	chrY	28793430	.	A	G	8578.13	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
47394	chrY	28793456	.	G	C	409.31	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47395	chrY	28793473	.	G	A	103.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47396	chrY	28793491	.	G	T,*	5418.43	PASS	AC=19,6;AF=0.271,0.086;AN=70;BaseQ
47397	chrY	28793555	.	C	G	4598.91	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
47398	chrY	28793559	.	T	C	3450.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
47399	chrY	28793583	.	A	G	5696.43	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
47400	chrY	28793592	.	A	G	739.55	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47401	chrY	28793594	.	G	C	4478.87	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
47402	chrY	28793613	.	T	C	1327.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47403	chrY	28793625	.	A	T	445.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47404	chrY	28793660	.	T	G	8776.96	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
47405	chrY	28793661	.	A	G	952.10	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
47406	chrY	28793668	.	T	G	288.54	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47407	chrY	28793671	.	A	T	841.98	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
47408	chrY	28793672	.	G	A	2117.71	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
47409	chrY	28793675	.	G	C	919.90	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47410	chrY	28793702	.	T	C	1069.11	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
47411	chrY	28793706	.	C	T,A	5224.02	my_snp_filter	AC=7,15;AF=0.113,0.242;AN=
47412	chrY	28793712	.	A	T,G	3924.65	my_snp_filter	AC=15,1;AF=0.234,0.016;AN=
47413	chrY	28793741	.	A	C	1164.82	my_snp_filter	AC=14;AF=0.206;AN=68;BaseQ
47414	chrY	28793753	.	G	A	17215.44	my_snp_filter	AC=37;AF=0.544;AN=
47415	chrY	28793765	.	A	G	5770.90	my_snp_filter	AC=24;AF=0.353;AN=68;BaseQ
47416	chrY	28793774	.	T	G	12614.96	my_snp_filter	AC=21;AF=0.309;AN=
47417	chrY	28793776	.	G	A	1352.20	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47418	chrY	28793782	.	T	A	4257.95	my_snp_filter	AC=25;AF=0.368;AN=68;BaseQ
47419	chrY	28793797	.	A	G	35700.99	my_snp_filter	AC=23;AF=0.348;AN=
47420	chrY	28793799	.	G	T	539.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47421	chrY	28793801	.	G	T	2406.54	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
47422	chrY	28793828	.	T	C	34.55	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
47423	chrY	28793852	.	C	T	7862.50	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
47424	chrY	28793857	.	T	A	815.43	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ

47425	chrY	28793863	.	G	A	6843.66	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
47426	chrY	28793898	.	A	G	11747.90	PASS	AC=33;AF=0.471;AN=70;BaseQ
47427	chrY	28793911	.	A	G	292.53	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47428	chrY	28793913	.	G	C	239.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47429	chrY	28793951	.	G	T	69.40	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47430	chrY	28793969	.	C	A	529.41	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47431	chrY	28793997	.	A	T	2360.46	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum
47432	chrY	28794071	.	A	C	32762.70	my_snp_filter	AC=34;AF=0.486;AN
47433	chrY	28794072	.	A	T	30504.72	my_snp_filter	AC=33;AF=0.471;AN
47434	chrY	28794074	.	A	C	270.94	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47435	chrY	28794080	.	A	G	46.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47436	chrY	28794086	.	C	A	119.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47437	chrY	28794092	.	G	A	53.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47438	chrY	28794113	.	G	T	108.81	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47439	chrY	28794121	.	T	A	1079.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47440	chrY	28794141	.	A	T	692.98	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47441	chrY	28794142	.	G	T	12292.36	my_snp_filter	AC=30;AF=0.429;AN
47442	chrY	28794143	.	G	T	11804.56	my_snp_filter	AC=30;AF=0.429;AN
47443	chrY	28794150	.	G	T	328.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47444	chrY	28794151	.	T	A	328.70	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47445	chrY	28794152	.	G	T	293.64	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47446	chrY	28794160	.	G	C	1635.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47447	chrY	28794161	.	T	G	102.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47448	chrY	28794167	.	G	A	185.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47449	chrY	28794212	.	G	T	133.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47450	chrY	28794222	.	G	T	115.23	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47451	chrY	28794227	.	G	A	192.18	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47452	chrY	28794243	.	C	G	60.63	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47453	chrY	28794262	.	G	A	8285.68	my_snp_filter	AC=11;AF=0.167;AN=66;BaseQ
47454	chrY	28794291	.	T	C	421.35	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
47455	chrY	28794310	.	A	T	236.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47456	chrY	28794313	.	T	G,*	332.20	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
47457	chrY	28794316	.	G	T,*	301.72	my_snp_filter	AC=2,2;AF=0.029,0.029;AN=
47458	chrY	28794363	.	G	A	125.47	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47459	chrY	28794400	.	A	G	68310.17	my_snp_filter	AC=33;AF=0.471;AN
47460	chrY	28794404	.	A	T	248.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47461	chrY	28794410	.	A	T	76930.70	my_snp_filter	AC=33;AF=0.471;AN
47462	chrY	28794435	.	T	A	67.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47463	chrY	28794503	.	A	G	141.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47464	chrY	28794511	.	G	A	606.06	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47465	chrY	28794584	.	T	A	4947.71	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
47466	chrY	28794679	.	T	A	33.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47467	chrY	28794735	.	G	T	22050.28	my_snp_filter	AC=33;AF=0.471;AN
47468	chrY	28794756	.	T	G	17474.36	my_snp_filter	AC=33;AF=0.471;AN
47469	chrY	28794758	.	A	G	440.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47470	chrY	28794768	.	A	G	61.71	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47471	chrY	28794782	.	C	A	585.24	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47472	chrY	28794794	.	T	G	967.49	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47473	chrY	28794796	.	G	A	599.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47474	chrY	28794799	.	T	G	915.93	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47475	chrY	28794800	.	T	G	1738.27	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
47476	chrY	28794801	.	G	A	572.34	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
47477	chrY	28794807	.	T	C	13364.90	my_snp_filter	AC=59;AF=0.922;AN
47478	chrY	28794814	.	T	G	655.17	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
47479	chrY	28794819	.	C	T	648.89	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
47480	chrY	28794830	.	C	G	634.56	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
47481	chrY	28794836	.	A	G	650.51	my_snp_filter	AC=7;AF=0.113;AN=62;BaseQ
47482	chrY	28794875	.	T	C	224.94	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
47483	chrY	28794883	.	T	C	199.64	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47484	chrY	28794890	.	G	A	199.44	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
47485	chrY	28794897	.	A	C	153.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47486	chrY	28794900	.	G	T	141.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47487	chrY	28794963	.	C	G	30937.41	PASS	AC=58;AF=1.00;AN=58;DP=69
47488	chrY	28794991	.	C	G	20705.77	my_snp_filter	AC=47;AF=0.810;AN
47489	chrY	28795063	.	G	T	481.45	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
47490	chrY	28795075	.	A	G	794.50	my_snp_filter	AC=13;AF=0.197;AN=66;BaseQ
47491	chrY	28795146	.	C	G	2521.11	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47492	chrY	28795149	.	C	T	2522.28	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47493	chrY	28795170	.	C	G	130.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47494	chrY	28795200	.	G	C	5067.04	my_snp_filter	AC=29;AF=0.414;AN=70;BaseQ
47495	chrY	28795249	.	T	A	102.23	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47496	chrY	28795264	.	C	G	37.75	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47497	chrY	28795268	.	C	G	9145.06	my_snp_filter	AC=29;AF=0.414;AN=70;BaseQ
47498	chrY	28795283	.	C	T	3073.92	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
47499	chrY	28795287	.	G	C,T	18463.73	my_snp_filter	AC=34,1;AF=0.486,
47500	chrY	28795302	.	G	T	46.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

47501	chrY	28795328	.	A	T	8611.74	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
47502	chrY	28795338	.	G	A	218.31	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47503	chrY	28795347	.	T	C	15776.85	PASS	AC=27;AF=0.386;AN=70;Base
47504	chrY	28795362	.	T	G	16222.99	PASS	AC=27;AF=0.386;AN=70;Base
47505	chrY	28795381	.	A	T	13575.66	PASS	AC=24;AF=0.343;AN=70;Base
47506	chrY	28795404	.	G	T	107.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47507	chrY	28795420	.	A	C	197.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
47508	chrY	28795428	.	A	G,*	4860.22	my_snp_filter	AC=11,1;AF=0.157,0.014;AN
47509	chrY	28795430	.	T	A,*	4478.71	my_snp_filter	AC=11,1;AF=0.157,0.014;AN
47510	chrY	28795439	.	G	T	7891.10	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
47511	chrY	28795453	.	A	G	513.59	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47512	chrY	28795461	.	A	G	70282.82	PASS	AC=38;AF=0.543;AN=70;Base
47513	chrY	28795537	.	T	C	1194.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
47514	chrY	28795542	.	T	C	26929.84	PASS	AC=36;AF=0.514;AN=70;Base
47515	chrY	28795543	.	G	A	340.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47516	chrY	28795552	.	T	A	53290.19	PASS	AC=41;AF=0.586;AN=70;Base
47517	chrY	28795556	.	A	T	1060.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
47518	chrY	28795597	.	T	C	2145.69	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
47519	chrY	28795617	.	A	G	17837.09	PASS	AC=41;AF=0.586;AN=70;Base
47520	chrY	28795657	.	A	G	382.43	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47521	chrY	28795663	.	C	G	16499.61	PASS	AC=36;AF=0.514;AN=70;Base
47522	chrY	28795666	.	C	A	16353.45	PASS	AC=36;AF=0.514;AN=70;Base
47523	chrY	28795687	.	T	C	112.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47524	chrY	28795700	.	T	G	106.09	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47525	chrY	28795710	.	C	T,*	283.31	my_snp_filter	AC=2,1;AF=0.056,0.028;AN=
47526	chrY	28795739	.	T	A	979.67	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47527	chrY	28795742	.	G	A	444.26	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47528	chrY	28795745	.	C	G	615.17	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47529	chrY	28795748	.	T	G	577.19	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47530	chrY	28795758	.	C	G	1237.88	my_snp_filter	AC=13;AF=0.186;AN=70;Base
47531	chrY	28795771	.	G	C	153.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47532	chrY	28795809	.	T	G	416.16	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47533	chrY	28795811	.	C	T	3680.45	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
47534	chrY	28795835	.	T	G	7505.94	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
47535	chrY	28795850	.	G	A	1277.60	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47536	chrY	28795855	.	G	T	1280.60	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47537	chrY	28795884	.	T	G	22496.97	PASS	AC=36;AF=0.514;AN=70;Base
47538	chrY	28795898	.	T	A	588.10	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47539	chrY	28795899	.	C	G	92.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47540	chrY	28795900	.	A	G	632.54	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47541	chrY	28795901	.	G	C	562.09	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47542	chrY	28795909	.	G	C	29595.87	PASS	AC=36;AF=0.514;AN=70;Base
47543	chrY	28795919	.	A	C	13758.36	PASS	AC=33;AF=0.471;AN=70;Base
47544	chrY	28795924	.	C	A	33.96	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47545	chrY	28795928	.	T	G	42.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
47546	chrY	28795931	.	T	G	41.15	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47547	chrY	28796010	.	G	C	8095.85	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
47548	chrY	28796044	.	G	T	1024.53	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
47549	chrY	28796049	.	G	A	1417.18	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
47550	chrY	28796067	.	C	T	1902.46	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
47551	chrY	28796068	.	G	A	1536.53	my_snp_filter	AC=17;AF=0.243;AN=70;Base
47552	chrY	28796070	.	A	C	139.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47553	chrY	28796077	.	C	A	33798.52	my_snp_filter	AC=62;AF=0.886;AN
47554	chrY	28796080	.	A	C	1483.57	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47555	chrY	28796083	.	G	T	3587.37	my_snp_filter	AC=17;AF=0.243;AN=70;Base
47556	chrY	28796084	.	G	T	3565.27	my_snp_filter	AC=17;AF=0.243;AN=70;Base
47557	chrY	28796095	.	G	C	1203.01	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47558	chrY	28796096	.	G	T	1585.09	my_snp_filter	AC=12;AF=0.171;AN=70;Base
47559	chrY	28796099	.	A	G	349.34	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
47560	chrY	28796104	.	G	T	72.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47561	chrY	28796106	.	A	G	1093.40	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47562	chrY	28796114	.	C	G	3776.78	my_snp_filter	AC=11;AF=0.167;AN=66;Base
47563	chrY	28796115	.	T	A	1170.97	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
47564	chrY	28796121	.	T	A	1628.48	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47565	chrY	28796122	.	T	C	3556.80	my_snp_filter	AC=11;AF=0.162;AN=68;Base
47566	chrY	28796130	.	A	G	1564.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47567	chrY	28796131	.	C	G	1568.33	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
47568	chrY	28796134	.	C	G	1529.90	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
47569	chrY	28796138	.	G	C	567.74	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47570	chrY	28796140	.	A	G	438.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47571	chrY	28796169	.	G	C	94.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47572	chrY	28796172	.	T	G	33.95	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47573	chrY	28796178	.	G	T	2109.46	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47574	chrY	28796182	.	T	G	1211	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47575	chrY	28796195	.	A	G	1844.67	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
47576	chrY	28796197	.	T	G	1235.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum

47577	chrY	28796216	.	T	G,*	1786.41	PASS	AC=9,5;AF=0.145,0.081;AN=62;BaseQ
47578	chrY	28796239	.	C	G,*	1132.41	PASS	AC=4,5;AF=0.059,0.074;AN=68;BaseQ
47579	chrY	28796271	.	G	T	50.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47580	chrY	28796280	.	G	A	2602.23	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
47581	chrY	28796284	.	C	G	2734.44	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
47582	chrY	28796349	.	G	T	1774.95	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
47583	chrY	28796359	.	G	T	48.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47584	chrY	28796369	.	C	G,T	5101.03	my_snp_filter	AC=21,5;AF=0.309,0.074;AN
47585	chrY	28796370	.	A	C	8980.16	PASS	AC=29;AF=0.426;AN=68;BaseQRankSum
47586	chrY	28796378	.	T	G	26048.53	my_snp_filter	AC=38;AF=0.559;AN
47587	chrY	28796382	.	T	C	1300.67	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
47588	chrY	28796394	.	T	G	1509.72	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
47589	chrY	28796403	.	G	A	426.08	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47590	chrY	28796408	.	C	T	366.31	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47591	chrY	28796428	.	C	G	670.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47592	chrY	28796467	.	C	G	39.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47593	chrY	28796468	.	C	A	274.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47594	chrY	28796517	.	T	G	1699.75	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47595	chrY	28796543	.	G	C	266.17	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47596	chrY	28796612	.	C	G	2505.11	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47597	chrY	28796626	.	G	A	1635.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
47598	chrY	28796750	.	C	T	168.25	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47599	chrY	28796780	.	A	T	19699.64	my_snp_filter	AC=14;AF=0.212;AN
47600	chrY	28796786	.	C	G	16270.60	my_snp_filter	AC=21;AF=0.362;AN
47601	chrY	28796824	.	G	T	8677.72	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
47602	chrY	28796841	.	T	G	10533.01	my_snp_filter	AC=21;AF=0.300;AN
47603	chrY	28796866	.	T	G	506.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47604	chrY	28796905	.	G	A	25234.17	my_snp_filter	AC=26;AF=0.371;AN
47605	chrY	28796906	.	G	C	385.32	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47606	chrY	28796945	.	A	T	46566.83	my_snp_filter	AC=33;AF=0.471;AN
47607	chrY	28796994	.	A	T	26462.32	my_snp_filter	AC=27;AF=0.386;AN
47608	chrY	28797015	.	G	T	598.66	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47609	chrY	28797016	.	G	T	297.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47610	chrY	28797096	.	G	T	54.11	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
47611	chrY	28797135	.	G	A	16889.15	my_snp_filter	AC=12;AF=0.182;AN
47612	chrY	28797153	.	A	T	51.86	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47613	chrY	28797164	.	T	C	12756.08	my_snp_filter	AC=29;AF=0.426;AN
47614	chrY	28797186	.	T	G,*	7233.63	my_snp_filter	AC=26,3;AF=0.371,0.043;AN
47615	chrY	28797189	.	G	T,*	7555.55	my_snp_filter	AC=26,3;AF=0.371,0.043;AN
47616	chrY	28797236	.	G	A	11684.12	my_snp_filter	AC=31;AF=0.443;AN
47617	chrY	28797251	.	A	G	24938.41	my_snp_filter	AC=27;AF=0.397;AN
47618	chrY	28797273	.	A	G	145.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47619	chrY	28797304	.	C	A	199.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47620	chrY	28797308	.	T	A	131934.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47621	chrY	28797309	.	A	T	146070.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47622	chrY	28797319	.	C	A	45.68	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
47623	chrY	28797324	.	G	A	147.03	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
47624	chrY	28797325	.	A	G	8424.49	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum
47625	chrY	28797331	.	A	G	36.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47626	chrY	28797340	.	A	T	174.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47627	chrY	28797371	.	A	G	65459.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47628	chrY	28797373	.	C	A	87386.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47629	chrY	28797376	.	A	G	1995.17	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
47630	chrY	28797378	.	A	G	101458.93	PASS	AC=38;AF=0.543;AN=70;BaseQ
47631	chrY	28797380	.	A	G	6818.04	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
47632	chrY	28797383	.	G	C	72654.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47633	chrY	28797387	.	T	A	72333.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
47634	chrY	28797422	.	A	T	12663.02	PASS	AC=35;AF=0.500;AN=70;BaseQ
47635	chrY	28797427	.	C	T	737.82	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
47636	chrY	28797439	.	G	A	42.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47637	chrY	28797444	.	T	G	745.02	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
47638	chrY	28797455	.	C	A	642.96	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47639	chrY	28797459	.	G	T	77.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47640	chrY	28797466	.	G	T	10718.52	PASS	AC=33;AF=0.485;AN=68;BaseQ
47641	chrY	28797474	.	G	C	90.13	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47642	chrY	28797488	.	G	T	1495.34	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
47643	chrY	28797489	.	G	T	1494.85	my_snp_filter	AC=11;AF=0.162;AN=68;BaseQ
47644	chrY	28797506	.	T	C	4388.53	my_snp_filter	AC=15;AF=0.242;AN=62;BaseQ
47645	chrY	28797508	.	G	A	439.69	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47646	chrY	28797513	.	G	A	214.33	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47647	chrY	28797522	.	C	T	4564.85	my_snp_filter	AC=16;AF=0.258;AN=62;BaseQ
47648	chrY	28797529	.	G	C	4924.36	my_snp_filter	AC=15;AF=0.227;AN=66;BaseQ
47649	chrY	28797536	.	C	T	4848.39	my_snp_filter	AC=16;AF=0.250;AN=64;BaseQ
47650	chrY	28797544	.	C	G	5005.36	my_snp_filter	AC=18;AF=0.265;AN=68;BaseQ
47651	chrY	28797569	.	C	G	4191.45	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum
47652	chrY	28797587	.	T	A	38.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

47653	chrY	28797593	.	G	T	47.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47654	chrY	28797612	.	A	T	29846.92	PASS	AC=34;AF=0.486;AN=70;BaseQ
47655	chrY	28797626	.	T	A	35952.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
47656	chrY	28797631	.	A	G	370.70	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47657	chrY	28797642	.	T	A	1297.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47658	chrY	28797644	.	G	T	42284.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
47659	chrY	28797647	.	A	T	39.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47660	chrY	28797654	.	G	A	43605.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
47661	chrY	28797729	.	A	T	21763.86	PASS	AC=34;AF=0.486;AN=70;BaseQ
47662	chrY	28797735	.	A	G	2317.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47663	chrY	28797739	.	A	G	2378.65	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47664	chrY	28797747	.	A	C	45458.52	PASS	AC=67;AF=0.957;AN=70;BaseQ
47665	chrY	28797756	.	T	G	14459.88	PASS	AC=33;AF=0.471;AN=70;BaseQ
47666	chrY	28797783	.	G	T	90.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47667	chrY	28797798	.	A	G	16891.71	my_snp_filter	AC=69;AF=0.986;AN=
47668	chrY	28797832	.	G	T	7658.81	my_snp_filter	AC=57;AF=0.864;AN=66;BaseQ
47669	chrY	28797865	.	G	T	3314.47	my_snp_filter	AC=14;AF=0.467;AN=30;BaseQ
47670	chrY	28797876	.	T	A	181.45	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
47671	chrY	28797890	.	A	G	36.35	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47672	chrY	28797910	.	T	G	34.40	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47673	chrY	28798085	.	G	A	43.38	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47674	chrY	28798289	.	A	T	90.85	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
47675	chrY	28798707	.	T	A	66.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47676	chrY	28798877	.	A	C	103.66	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47677	chrY	28798886	.	A	G	74.21	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47678	chrY	28798897	.	G	A	110.97	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47679	chrY	28798898	.	A	T	233.73	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
47680	chrY	28798899	.	G	A	95.77	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47681	chrY	28798900	.	G	T	146.01	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47682	chrY	28798910	.	G	A	102.09	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47683	chrY	28798913	.	T	A	158.15	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47684	chrY	28798915	.	G	A	35.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47685	chrY	28798916	.	A	T	65.88	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47686	chrY	28798920	.	C	G	365.07	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum=
47687	chrY	28798926	.	A	G	117.37	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
47688	chrY	28798940	.	T	C	53.55	PASS	AC=1;AF=0.063;AN=16;BaseQRankSum=
47689	chrY	28798942	.	T	A	420.47	PASS	AC=2;AF=0.111;AN=18;BaseQRankSum=
47690	chrY	28798945	.	G	C	40.97	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
47691	chrY	28798949	.	G	T	51.23	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47692	chrY	28798952	.	C	G	593.92	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
47693	chrY	28799184	.	G	T	47.16	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47694	chrY	28799223	.	G	C	482.60	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
47695	chrY	28799224	.	G	T	481.69	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
47696	chrY	28799236	.	A	T	589.09	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
47697	chrY	28799492	.	T	A	975.18	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
47698	chrY	28799502	.	T	A	970.30	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
47699	chrY	28799510	.	C	A	1415.28	PASS	AC=8;AF=0.160;AN=50;BaseQRankSum=
47700	chrY	28799513	.	G	A	168.89	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
47701	chrY	28799524	.	C	G	411.77	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum=
47702	chrY	28799531	.	G	A	234.45	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
47703	chrY	28799537	.	T	A	63.60	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
47704	chrY	28799543	.	G	A	3373.79	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
47705	chrY	28799544	.	G	T	3360.68	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
47706	chrY	28799546	.	G	A	36.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47707	chrY	28799730	.	G	A	2330.71	my_snp_filter	AC=16;AF=0.235;AN=68;BaseQ
47708	chrY	28799740	.	G	T	793.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47709	chrY	28799745	.	C	A	335.26	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
47710	chrY	28799763	.	G	A	3943.53	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
47711	chrY	28799770	.	A	C	169.76	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47712	chrY	28799774	.	A	C	165.17	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47713	chrY	28799778	.	G	C	1237.33	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
47714	chrY	28799781	.	T	C	2421.85	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
47715	chrY	28799782	.	A	T	4783.50	PASS	AC=23;AF=0.442;AN=52;BaseQRankSum=
47716	chrY	28799786	.	C	A, T	337.66	PASS	AC=4, 3;AF=0.059, 0.044;AN=68;BaseQ
47717	chrY	28799789	.	A	C	187.70	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
47718	chrY	28799790	.	G	T	293.24	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47719	chrY	28799792	.	G	A	350.12	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47720	chrY	28799796	.	T	G	349.17	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47721	chrY	28799801	.	T	A	1320.99	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
47722	chrY	28799805	.	G	A, *	501.65	PASS	AC=3, 3;AF=0.060, 0.060;AN=50;BaseQ
47723	chrY	28799808	.	C	G, *	1362.35	PASS	AC=4, 4;AF=0.083, 0.083;AN=48;BaseQ
47724	chrY	28799810	.	G	T	191.41	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
47725	chrY	28799814	.	C	T, A, *	1369.67	PASS	AC=2, 1, 5;AF=0.059, 0.029, 0.147;AN=
47726	chrY	28799815	.	A	T, *	620.05	PASS	AC=2, 5;AF=0.059, 0.147;AN=34;BaseQ
47727	chrY	28799818	.	C	G, *	602.32	PASS	AC=3, 5;AF=0.083, 0.139;AN=36;BaseQ
47728	chrY	28799821	.	T	A, *	422.02	PASS	AC=2, 3;AF=0.045, 0.068;AN=44;BaseQ

47729	chrY	28799825	.	G	T,*	467.01	PASS	AC=2,3;AF=0.038,0.058;AN=52;BaseQ
47730	chrY	28799830	.	G	A,*	446.08	PASS	AC=2,3;AF=0.038,0.058;AN=52;BaseQ
47731	chrY	28799837	.	A	G	341.22	PASS	AC=3;AF=0.115;AN=26;BaseQRankSum=
47732	chrY	28799859	.	C	A	44.97	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
47733	chrY	28800024	.	A	G	302.90	PASS	AC=2;AF=0.038;AN=52;DP=1163;FS=0.
47734	chrY	28800249	.	A	G	296.86	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47735	chrY	28800286	.	A	T	169.58	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
47736	chrY	28800295	.	A	T	147.32	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
47737	chrY	28800299	.	A	G	57.27	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47738	chrY	28800409	.	T	A	1288.55	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
47739	chrY	28800418	.	A	G	1280.89	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
47740	chrY	28800419	.	C	T	1289.96	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
47741	chrY	28800421	.	C	A	1189.11	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
47742	chrY	28800435	.	A	G	918.78	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
47743	chrY	28800436	.	G	T	833.68	PASS	AC=8;AF=0.129;AN=62;BaseQRankSum=
47744	chrY	28800441	.	T	C	819.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
47745	chrY	28800450	.	G	A	646.94	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
47746	chrY	28800456	.	A	G	631.42	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
47747	chrY	28800464	.	C	T	442.14	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
47748	chrY	28800468	.	A	G	424.66	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
47749	chrY	28800498	.	G	A	88.06	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47750	chrY	28800502	.	A	G	37.87	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47751	chrY	28801096	.	G	T	43.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47752	chrY	28801110	.	A	G	48.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47753	chrY	28801208	.	T	G	41.07	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
47754	chrY	28801222	.	A	C	129.62	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
47755	chrY	28801230	.	A	T	172.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47756	chrY	28801235	.	C	T	169.58	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47757	chrY	28801237	.	T	C	170.23	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
47758	chrY	28801253	.	T	A	212.72	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47759	chrY	28801261	.	A	T	254.94	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47760	chrY	28801267	.	G	C	256.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47761	chrY	28801269	.	A	G	257.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47762	chrY	28801277	.	A	G	297.56	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47763	chrY	28801300	.	G	A	377.68	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47764	chrY	28801328	.	G	A	87.13	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
47765	chrY	28801347	.	A	G	76.36	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
47766	chrY	28801348	.	A	G	103.98	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
47767	chrY	28801378	.	G	C	81.43	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47768	chrY	28801418	.	C	G	345.64	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
47769	chrY	28801703	.	A	G	72.69	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
47770	chrY	28801706	.	A	G	90.49	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
47771	chrY	28801722	.	T	G	67.32	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
47772	chrY	28801724	.	C	G	34.81	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
47773	chrY	28801937	.	G	A	216.95	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47774	chrY	28801940	.	G	T	216.59	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
47775	chrY	28801942	.	C	A	231.40	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
47776	chrY	28801945	.	T	G	241.45	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
47777	chrY	28801947	.	G	T	195.28	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
47778	chrY	28801948	.	A	T	384.21	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
47779	chrY	28801967	.	A	G	33.62	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47780	chrY	28801968	.	G	T	226.37	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
47781	chrY	28801978	.	A	T	106.39	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47782	chrY	28802088	.	T	A	610.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47783	chrY	28802231	.	A	G	109.01	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47784	chrY	28802450	.	G	C	33.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47785	chrY	28802513	.	G	T	74.54	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
47786	chrY	28802524	.	C	G,*	7062.52	my_snp_filter	AC=14,14;AF=0.259,0.259;A
47787	chrY	28802525	.	G	A	2183.05	my_snp_filter	AC=14;AF=0.368;AN=38;Base
47788	chrY	28802536	.	G	A,*	5095.27	my_snp_filter	AC=3,13;AF=0.052,0.224;AN
47789	chrY	28802539	.	C	A,*	5098.59	my_snp_filter	AC=3,13;AF=0.054,0.232;AN
47790	chrY	28802541	.	T	A	907.40	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
47791	chrY	28802542	.	T	G	4165.63	my_snp_filter	AC=13;AF=0.186;AN=70;Base
47792	chrY	28802543	.	G	T	861.07	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
47793	chrY	28802547	.	C	T,*	3170.29	my_snp_filter	AC=2,9;AF=0.042,0.188;AN=
47794	chrY	28802569	.	T	C,*	2668.77	my_snp_filter	AC=4,7;AF=0.057,0.100;AN=
47795	chrY	28802574	.	G	C	1176.06	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47796	chrY	28802577	.	T	C	623.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47797	chrY	28802578	.	T	G	571.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47798	chrY	28802581	.	A	G	380.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47799	chrY	28802582	.	T	C	686.20	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47800	chrY	28802589	.	G	T	138.25	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47801	chrY	28802592	.	T	A,*	590.05	PASS	AC=2,4;AF=0.040,0.080;AN=50;BaseQ
47802	chrY	28802596	.	T	G,*	727.28	my_snp_filter	AC=5,4;AF=0.100,0.080;AN=
47803	chrY	28802597	.	T	A	48.12	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
47804	chrY	28802599	.	G	C,T	826.71	my_snp_filter	AC=3,8;AF=0.044,0.118;AN=

47805	chrY	28802603	.	G	C	36.39	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47806	chrY	28802604	.	G	A	555.54	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47807	chrY	28802607	.	T	G	161.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47808	chrY	28802613	.	G	T	76.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47809	chrY	28802614	.	G	C	76.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47810	chrY	28802622	.	C	T	11622.74	my_snp_filter	AC=27;AF=0.422;AN
47811	chrY	28802625	.	A	C	10984.51	my_snp_filter	AC=26;AF=0.371;AN
47812	chrY	28802635	.	A	C	135.43	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
47813	chrY	28802638	.	G	T	5545.30	my_snp_filter	AC=16;AF=0.229;AN=70;Base
47814	chrY	28802639	.	G	T	3041.71	my_snp_filter	AC=14;AF=0.200;AN=70;Base
47815	chrY	28802648	.	G	T	312.72	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47816	chrY	28802651	.	G	T	16805.77	my_snp_filter	AC=29;AF=0.426;AN
47817	chrY	28802656	.	T	G	17115.14	my_snp_filter	AC=29;AF=0.453;AN
47818	chrY	28802669	.	C	G	16220.81	my_snp_filter	AC=28;AF=0.438;AN
47819	chrY	28802677	.	T	C	15229.77	my_snp_filter	AC=29;AF=0.453;AN
47820	chrY	28802688	.	G	T	36.50	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
47821	chrY	28802727	.	T	G	182.84	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
47822	chrY	28802733	.	G	T	757.04	my_snp_filter	AC=7;AF=0.184;AN=38;BaseQ
47823	chrY	28802784	.	A	G	238.93	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
47824	chrY	28802796	.	C	G	109.88	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
47825	chrY	28802797	.	A	T	33.07	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
47826	chrY	28802798	.	T	G	64.33	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
47827	chrY	28802805	.	A	G	123.69	PASS	AC=4;AF=0.100;AN=40;BaseQRankSum=
47828	chrY	28802841	.	T	G	39.65	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
47829	chrY	28802854	.	T	A,*	378.63	PASS	AC=2,2;AF=0.050,0.050;AN=40;BaseQ
47830	chrY	28802885	.	C	A	75.69	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
47831	chrY	28802886	.	T	G	89.68	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
47832	chrY	28802953	.	C	G	644.33	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
47833	chrY	28802957	.	T	C	361.68	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
47834	chrY	28802976	.	A	C	167.42	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
47835	chrY	28802981	.	A	G	1182.66	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
47836	chrY	28802990	.	A	G	111.92	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
47837	chrY	28803011	.	T	C	345.96	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47838	chrY	28803023	.	A	T	370.79	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47839	chrY	28803059	.	A	G	621.87	PASS	AC=5;AF=0.086;AN=58;BaseQRankSum=
47840	chrY	28803063	.	C	G	113.43	PASS	AC=2;AF=0.037;AN=54;BaseQRankSum=
47841	chrY	28803070	.	G	A	153.98	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
47842	chrY	28803104	.	T	A	489.97	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
47843	chrY	28803110	.	A	G,T	485.32	PASS	AC=5,2;AF=0.074,0.029;AN=68;BaseQ
47844	chrY	28803142	.	G	A	90.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47845	chrY	28803151	.	G	A	92.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47846	chrY	28803154	.	A	C	50.48	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47847	chrY	28803167	.	A	G	16137.75	PASS	AC=65;AF=0.985;AN=66;BaseQ
47848	chrY	28803182	.	G	T	42.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47849	chrY	28803198	.	T	A	169.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47850	chrY	28803250	.	C	T	6344.92	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
47851	chrY	28803261	.	G	A	6679.26	my_snp_filter	AC=29;AF=0.426;AN=68;BaseQ
47852	chrY	28803263	.	A	G	96.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47853	chrY	28803267	.	G	A	99.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47854	chrY	28803275	.	T	A	792.41	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
47855	chrY	28803295	.	T	C	62.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47856	chrY	28803326	.	A	G	364.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
47857	chrY	28803334	.	A	G	48.86	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47858	chrY	28803335	.	T	G	48.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47859	chrY	28803345	.	A	G	1504.68	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQ
47860	chrY	28803347	.	A	T	343.63	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
47861	chrY	28803361	.	A	C	283.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47862	chrY	28803366	.	T	G	480.44	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
47863	chrY	28803377	.	C	A	253.32	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47864	chrY	28803430	.	G	A	53.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47865	chrY	28803462	.	G	T	472.71	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
47866	chrY	28803464	.	T	C	79.68	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
47867	chrY	28803469	.	G	C	99.91	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47868	chrY	28803470	.	A	T	100.09	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
47869	chrY	28803490	.	G	A	170.90	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
47870	chrY	28803519	.	A	T	255.67	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
47871	chrY	28803534	.	T	A	143.34	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
47872	chrY	28803539	.	A	T	146.16	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
47873	chrY	28803544	.	A	T	301.74	PASS	AC=4;AF=0.063;AN=64;BaseQRankSum=
47874	chrY	28803583	.	G	A	46.94	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
47875	chrY	28803585	.	C	G	653.99	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
47876	chrY	28803595	.	G	A	1985.68	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
47877	chrY	28803600	.	G	T	1970.07	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
47878	chrY	28803606	.	G	T	50.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
47879	chrY	28803608	.	T	G	2128.76	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
47880	chrY	28803618	.	A	T	57.62	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=

47881	chrY	28803623	.	G	A	75.82	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
47882	chrY	28803624	.	T	A	91.50	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
47883	chrY	28803626	.	C	G	76.16	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
47884	chrY	28803629	.	A	T	75.85	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
47885	chrY	28803663	.	A	T	48.40	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
47886	chrY	28803674	.	T	C	250.55	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
47887	chrY	28803696	.	T	G	137.36	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
47888	chrY	28803699	.	G	T	154.05	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
47889	chrY	28803745	.	C	G	713.70	my_snp_filter	AC=6;AF=0.086;AN=70;DP=40
47890	chrY	28803746	.	G	A	68.14	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47891	chrY	28803845	.	A	T	90.16	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47892	chrY	28803846	.	G	A	90.83	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47893	chrY	28803858	.	T	G	76.56	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47894	chrY	28803981	.	G	C	561.14	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
47895	chrY	28803990	.	A	C	31.39	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47896	chrY	28803993	.	G	T	563.11	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
47897	chrY	28803997	.	T	C	79.64	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47898	chrY	28803998	.	G	T	2751.51	PASS	AC=18;AF=0.290;AN=62;BaseQRankSum=
47899	chrY	28803999	.	G	T	2735.24	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
47900	chrY	28804012	.	T	C	34.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47901	chrY	28804016	.	T	C	3971.49	PASS	AC=17;AF=0.274;AN=62;BaseQRankSum=
47902	chrY	28804018	.	G	A	148.04	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47903	chrY	28804024	.	G	C	36.01	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
47904	chrY	28804032	.	C	T	4042.50	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
47905	chrY	28804036	.	G	T	71.57	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
47906	chrY	28804039	.	G	C	4150.79	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
47907	chrY	28804041	.	G	C	167.43	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
47908	chrY	28804046	.	C	T	4242.97	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
47909	chrY	28804054	.	C	G	4597.09	PASS	AC=17;AF=0.304;AN=56;BaseQRankSum=
47910	chrY	28804079	.	C	G	5122.82	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
47911	chrY	28804082	.	T	C	44.24	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47912	chrY	28804131	.	A	G	9317.22	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
47913	chrY	28804141	.	A	G	7728.97	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
47914	chrY	28804147	.	T	A	13374.63	PASS	AC=27;AF=0.386;AN=70;BaseQ
47915	chrY	28804165	.	C	A	7901.66	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
47916	chrY	28804166	.	G	A	198.70	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
47917	chrY	28804169	.	G	A	216.66	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
47918	chrY	28804170	.	A	G	46.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47919	chrY	28804179	.	G	C	130.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47920	chrY	28804188	.	C	T	31.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47921	chrY	28804197	.	T	G	595.31	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
47922	chrY	28804209	.	A	C	304.11	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47923	chrY	28804213	.	C	G	335.69	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
47924	chrY	28804214	.	A	G	317.87	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
47925	chrY	28804222	.	C	T	1748.21	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
47926	chrY	28804230	.	A	T	60.83	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47927	chrY	28804238	.	C	A	68.92	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47928	chrY	28804258	.	T	C	64.76	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47929	chrY	28804266	.	T	C	63.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47930	chrY	28804308	.	A	G	75.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47931	chrY	28804312	.	G	A	82.66	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47932	chrY	28804337	.	G	A	124.14	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47933	chrY	28804342	.	G	T	1254.75	PASS	AC=6;AF=0.086;AN=70;DP=557;FS=0.0
47934	chrY	28804383	.	A	G	16325.95	PASS	AC=66;AF=1.00;AN=66;DP=36
47935	chrY	28804418	.	G	A	324.15	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
47936	chrY	28804452	.	C	T	67.95	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
47937	chrY	28804468	.	C	G	693.02	PASS	AC=14;AF=1.00;AN=14;DP=29;FS=0.00
47938	chrY	28804469	.	C	G	693.02	PASS	AC=14;AF=1.00;AN=14;DP=28;FS=0.00
47939	chrY	28804474	.	A	G	338.19	PASS	AC=8;AF=1.00;AN=8;DP=20;FS=0.000
47940	chrY	28804655	.	C	G	132.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
47941	chrY	28804670	.	C	T	156.34	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47942	chrY	28804682	.	T	G	157.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
47943	chrY	28804825	.	A	G	162.03	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
47944	chrY	28804848	.	G	A	154.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47945	chrY	28804880	.	T	G	4237.22	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
47946	chrY	28804902	.	A	T	65.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
47947	chrY	28804909	.	G	T	792.36	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
47948	chrY	28804914	.	T	C	181.59	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
47949	chrY	28805012	.	T	A	890.52	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
47950	chrY	28805044	.	A	G	1036.29	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
47951	chrY	28805067	.	T	A	873.17	PASS	AC=1;AF=0.021;AN=48;BaseQRankSum=
47952	chrY	28805136	.	T	G	191.72	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
47953	chrY	28805189	.	G	C	53.62	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47954	chrY	28805197	.	T	G	297.52	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47955	chrY	28805206	.	G	T	141.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47956	chrY	28805247	.	T	C,*	1660.10	PASS	AC=5,5;AF=0.071,0.071;AN=70;BaseQ

47957	chrY	28805248	.	G	A,*	1216.14	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
47958	chrY	28805257	.	T	C	5125.93	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
47959	chrY	28805258	.	G	T	1667.92	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
47960	chrY	28805263	.	C	G,*	206.30	my_snp_filter	AC=1,3;AF=0.014,0.043;AN=
47961	chrY	28805264	.	A	C,G	179.08	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
47962	chrY	28805270	.	A	T	687.43	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
47963	chrY	28805271	.	A	T	390.81	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
47964	chrY	28805275	.	A	T	127.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47965	chrY	28805283	.	C	T	673.59	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
47966	chrY	28805301	.	T	A	8311.29	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum
47967	chrY	28805304	.	G	C	3534.14	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47968	chrY	28805327	.	C	A	237.90	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
47969	chrY	28805331	.	T	G,A	10105.47	PASS	AC=9,14;AF=0.145,0.226;AN
47970	chrY	28805339	.	A	T	74.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47971	chrY	28805345	.	C	A,*	12256.57	PASS	AC=23,4;AF=0.359,0.063;AN
47972	chrY	28805346	.	A	T	7309.21	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum
47973	chrY	28805358	.	G	A	2647.35	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
47974	chrY	28805380	.	T	G	6539.59	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
47975	chrY	28805388	.	C	G	4494.65	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
47976	chrY	28805437	.	A	G	648.69	PASS	AC=11;AF=0.196;AN=56;BaseQRankSum
47977	chrY	28805448	.	G	T	440.77	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
47978	chrY	28805470	.	G	A	139.08	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
47979	chrY	28805487	.	G	T	115.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
47980	chrY	28805488	.	G	T	115.54	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
47981	chrY	28805521	.	C	T	347.37	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum
47982	chrY	28805529	.	G	A	540.26	PASS	AC=4;AF=0.067;AN=60;BaseQRankSum
47983	chrY	28805542	.	G	C	86.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
47984	chrY	28805547	.	A	G	2659.98	my_snp_filter	AC=12;AF=0.200;AN=60;Base
47985	chrY	28805582	.	G	T	59.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47986	chrY	28805597	.	G	T	82.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47987	chrY	28805599	.	A	G	1280.83	my_snp_filter	AC=10;AF=0.143;AN=70;Base
47988	chrY	28805661	.	T	A	113.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47989	chrY	28805688	.	G	C	232.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47990	chrY	28805690	.	G	A	276.31	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
47991	chrY	28805733	.	G	T	172.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
47992	chrY	28805738	.	G	C	33.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
47993	chrY	28805763	.	G	T	10860.47	my_snp_filter	AC=24;AF=0.343;AN
47994	chrY	28805768	.	T	G	181.87	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
47995	chrY	28805773	.	G	C,T	19786.67	my_snp_filter	AC=29,4;AF=0.414,
47996	chrY	28805774	.	A	C	1778.66	my_snp_filter	AC=12;AF=0.171;AN=70;Base
47997	chrY	28805777	.	G	T	506.79	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47998	chrY	28805778	.	G	T	528.72	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
47999	chrY	28805782	.	G	T	206.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48000	chrY	28805786	.	T	C	44.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48001	chrY	28805790	.	A	G	15723.84	my_snp_filter	AC=34;AF=0.486;AN
48002	chrY	28805796	.	C	T	132963.12	my_snp_filter	AC=68;AF=0.971;AN
48003	chrY	28805798	.	T	G	71113.77	my_snp_filter	AC=35;AF=0.500;AN
48004	chrY	28805806	.	T	A	102.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48005	chrY	28805807	.	G	A	216.96	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48006	chrY	28805812	.	C	T	133.71	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48007	chrY	28805832	.	C	G	1856.08	my_snp_filter	AC=8;AF=0.118;AN=68;BaseQ
48008	chrY	28805836	.	T	C	1888.12	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48009	chrY	28805838	.	G	A	58.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48010	chrY	28805860	.	A	G	3881.36	my_snp_filter	AC=16;AF=0.258;AN=62;Base
48011	chrY	28805864	.	A	G	141.59	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48012	chrY	28805866	.	G	T	51.78	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48013	chrY	28805869	.	A	G	895.45	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
48014	chrY	28805871	.	C	G	4868.13	my_snp_filter	AC=12;AF=0.176;AN=68;Base
48015	chrY	28805890	.	T	C	2337.23	my_snp_filter	AC=12;AF=0.176;AN=68;Base
48016	chrY	28805902	.	A	T	2431	my_snp_filter	AC=11;AF=0.162;AN=68;Base
48017	chrY	28805916	.	C	G	89.12	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48018	chrY	28805917	.	G	A	254.23	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
48019	chrY	28805921	.	G	A	530.35	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
48020	chrY	28805938	.	A	G	2347.09	my_snp_filter	AC=15;AF=0.227;AN=66;Base
48021	chrY	28805943	.	A	T	38.13	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48022	chrY	28805949	.	A	G	555.08	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
48023	chrY	28805983	.	C	A	482.94	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48024	chrY	28805989	.	A	T	399.46	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
48025	chrY	28805992	.	T	A	611.52	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
48026	chrY	28806051	.	T	G	56.52	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
48027	chrY	28806094	.	T	A	800.28	my_snp_filter	AC=9;AF=0.145;AN=62;BaseQ
48028	chrY	28806129	.	C	T	791.98	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
48029	chrY	28806134	.	A	T	1403.75	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum
48030	chrY	28806140	.	G	A	962.90	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
48031	chrY	28806190	.	C	G	50.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
48032	chrY	28806296	.	A	G	97.94	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ

48033	chrY	28806297	.	T	A	116.73	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48034	chrY	28806307	.	C	T	111.91	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48035	chrY	28806308	.	G	A	883.03	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQ
48036	chrY	28806309	.	G	C	56.03	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48037	chrY	28806347	.	C	G	1655.43	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
48038	chrY	28806348	.	A	T	1604	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQ
48039	chrY	28806350	.	A	C	40.01	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
48040	chrY	28806362	.	C	A	46.58	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
48041	chrY	28806366	.	T	G	9261.17	my_snp_filter	AC=44;AF=0.917;AN=48;DP=2
48042	chrY	28806368	.	G	A	1803.75	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
48043	chrY	28806379	.	G	T	2066.36	my_snp_filter	AC=27;AF=0.409;AN=66;BaseQ
48044	chrY	28806418	.	G	T	331.49	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
48045	chrY	28806419	.	G	T	330.37	my_snp_filter	AC=6;AF=0.094;AN=64;BaseQ
48046	chrY	28806428	.	A	T,G	1618.28	my_snp_filter	AC=9,9;AF=0.167,0.167;AN=
48047	chrY	28806443	.	G	A	71.33	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
48048	chrY	28806535	.	G	A	994.79	my_snp_filter	AC=9;AF=0.167;AN=54;BaseQ
48049	chrY	28806567	.	T	C	1010.36	my_snp_filter	AC=8;AF=0.125;AN=64;BaseQ
48050	chrY	28806589	.	T	G	908.05	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48051	chrY	28806592	.	G	T	904.15	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48052	chrY	28806633	.	G	A	97.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48053	chrY	28806639	.	G	A	92.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48054	chrY	28806818	.	A	T	799.57	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
48055	chrY	28806834	.	T	A	88.69	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
48056	chrY	28806847	.	T	G	14861	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum
48057	chrY	28806849	.	G	T	11194.11	PASS	AC=31;AF=0.443;AN=70;BaseQ
48058	chrY	28806856	.	A	G	2303.83	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
48059	chrY	28806891	.	G	T	1301.33	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum
48060	chrY	28806892	.	G	T	1298.33	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum
48061	chrY	28806900	.	T	C	597.35	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum
48062	chrY	28806909	.	T	C	746.13	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum
48063	chrY	28806925	.	C	T	294.71	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum
48064	chrY	28806929	.	G	T	204.91	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum
48065	chrY	28806932	.	G	C	168.44	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
48066	chrY	28806939	.	C	T	121.65	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum
48067	chrY	28806947	.	C	G	44.33	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
48068	chrY	28807052	.	C	G	1607.13	PASS	AC=6;AF=0.086;AN=70;DP=989;FS=0.0
48069	chrY	28807082	.	A	G	37.54	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
48070	chrY	28807090	.	T	G	265.12	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum
48071	chrY	28807106	.	C	G	264.35	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum
48072	chrY	28807128	.	A	G	822.01	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
48073	chrY	28807141	.	G	C	5484.63	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
48074	chrY	28807151	.	T	C	1672.30	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
48075	chrY	28807159	.	T	C,A	1416.12	PASS	AC=10,1;AF=0.143,0.014;AN=70;BaseQ
48076	chrY	28807171	.	A	G	1061.45	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
48077	chrY	28807173	.	A	C	131.94	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48078	chrY	28807176	.	G	T	701.69	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
48079	chrY	28807192	.	A	T	257.63	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48080	chrY	28807205	.	G	A	6994.60	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
48081	chrY	28807206	.	G	C	57.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48082	chrY	28807218	.	A	T	1324.12	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
48083	chrY	28807230	.	G	A	5562.52	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
48084	chrY	28807233	.	C	A	2445.52	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
48085	chrY	28807236	.	A	G	7930.22	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
48086	chrY	28807250	.	T	A	3273.86	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
48087	chrY	28807251	.	C	T	4698.67	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
48088	chrY	28807257	.	A	G,*	2930.26	PASS	AC=3,6;AF=0.048,0.097;AN=62;BaseQ
48089	chrY	28807259	.	A	T,*	2543.10	PASS	AC=4,5;AF=0.065,0.081;AN=62;BaseQ
48090	chrY	28807261	.	G	A,*	2486.02	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
48091	chrY	28807269	.	T	C,*	2135.61	PASS	AC=4,5;AF=0.057,0.071;AN=70;BaseQ
48092	chrY	28807274	.	T	C,*	2258.09	PASS	AC=5,7;AF=0.071,0.100;AN=70;BaseQ
48093	chrY	28807275	.	G	T,*	2133.21	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
48094	chrY	28807280	.	G	A,*	1274.95	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
48095	chrY	28807284	.	T	C,*	1254.57	my_snp_filter	AC=5,3;AF=0.071,0.043;AN=
48096	chrY	28807293	.	G	C,*	2377.12	PASS	AC=15,2;AF=0.214,0.029;AN=70;BaseQ
48097	chrY	28807296	.	C	G,*	1562.51	PASS	AC=4,1;AF=0.057,0.014;AN=70;BaseQ
48098	chrY	28807301	.	G	A,*	1472.01	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
48099	chrY	28807304	.	T	A,*	2260.57	my_snp_filter	AC=15,2;AF=0.214,0.029;AN=
48100	chrY	28807309	.	T	C	506.65	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48101	chrY	28807310	.	G	A	824.58	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
48102	chrY	28807330	.	G	A	261.14	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48103	chrY	28807336	.	G	T,C	13645.52	PASS	AC=27,1;AF=0.409,0.015;AN=
48104	chrY	28807343	.	T	A	463.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
48105	chrY	28807344	.	C	T	538.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
48106	chrY	28807345	.	G	A	57.90	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
48107	chrY	28807349	.	A	T	52671.58	PASS	AC=30;AF=0.500;AN=60;BaseQ
48108	chrY	28807351	.	G	T	2087.75	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ

48109	chrY	28807356	.	C	G	173.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48110	chrY	28807357	.	C	T	14220.58	PASS	AC=21;AF=0.300;AN=70;BaseQ
48111	chrY	28807361	.	G	T	48.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48112	chrY	28807368	.	C	G	378.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48113	chrY	28807375	.	G	A	99.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48114	chrY	28807378	.	G	T	494.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48115	chrY	28807382	.	A	G	749.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48116	chrY	28807391	.	C	G	743.87	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48117	chrY	28807400	.	G	A	556.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48118	chrY	28807405	.	G	A	763.75	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48119	chrY	28807408	.	G	A	318.68	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48120	chrY	28807409	.	T	C	323.55	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48121	chrY	28807416	.	G	C	1147.31	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
48122	chrY	28807417	.	G	A	905.76	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
48123	chrY	28807418	.	C	G	9340.85	PASS	AC=17;AF=0.425;AN=40;BaseQRankSum=
48124	chrY	28807420	.	G	T	352.46	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48125	chrY	28807421	.	G	T	692.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48126	chrY	28807423	.	A	G	40.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48127	chrY	28807428	.	A	T	291.87	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48128	chrY	28807429	.	T	A	488.18	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48129	chrY	28807436	.	G	A	168.85	my_snp_filter	AC=5;AF=0.078;AN=64;BaseQ
48130	chrY	28807437	.	A	T,C	2665.60	my_snp_filter	AC=4,6;AF=0.105,0.158;AN=
48131	chrY	28807446	.	G	A	588.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48132	chrY	28807460	.	G	C,*	527.28	PASS	AC=7,1;AF=0.106,0.015;AN=66;BaseQ
48133	chrY	28807465	.	G	C	269.42	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48134	chrY	28807475	.	A	C,*	814.31	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
48135	chrY	28807485	.	T	A	567.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48136	chrY	28807494	.	C	T	666.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48137	chrY	28807498	.	G	T	736.59	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48138	chrY	28807514	.	C	G	667.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48139	chrY	28807543	.	C	G	506.82	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
48140	chrY	28807549	.	A	G	1159.37	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
48141	chrY	28807553	.	T	C	78.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48142	chrY	28807558	.	C	T	76.89	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48143	chrY	28807625	.	A	G	1824.30	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48144	chrY	28807630	.	T	C	101.75	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48145	chrY	28807841	.	A	G	410.67	my_snp_filter	AC=15;AF=0.221;AN=68;BaseQ
48146	chrY	28807843	.	T	C	20439.89	my_snp_filter	AC=34;AF=0.500;AN=
48147	chrY	28807845	.	C	T	136.93	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
48148	chrY	28807852	.	T	C	3835.20	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
48149	chrY	28807863	.	C	G	101.06	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48150	chrY	28807874	.	A	G	30.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48151	chrY	28807890	.	T	C	37907.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
48152	chrY	28807900	.	T	A	50366.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
48153	chrY	28807910	.	T	C	666.14	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48154	chrY	28807932	.	A	G	46920.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
48155	chrY	28807955	.	T	A	37410.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
48156	chrY	28807964	.	G	T	5849.09	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
48157	chrY	28807974	.	G	A	56.57	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48158	chrY	28807975	.	T	G	7005.89	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
48159	chrY	28807984	.	A	C	12096.54	PASS	AC=27;AF=0.397;AN=68;BaseQ
48160	chrY	28807985	.	C	T	17258.25	PASS	AC=28;AF=0.412;AN=68;BaseQ
48161	chrY	28808002	.	T	A	19691.05	PASS	AC=31;AF=0.470;AN=66;BaseQ
48162	chrY	28808022	.	T	A,*	5485	PASS	AC=25,2;AF=0.379,0.030;AN=66;BaseQ
48163	chrY	28808049	.	C	T	289.09	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48164	chrY	28808063	.	A	G	833.24	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48165	chrY	28808070	.	G	A	1223.05	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
48166	chrY	28808073	.	A	G	843.50	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48167	chrY	28808140	.	T	A	230.40	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48168	chrY	28808150	.	C	G	344.55	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48169	chrY	28808154	.	C	T	135.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48170	chrY	28808168	.	G	A	35.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48171	chrY	28808174	.	T	G	89.96	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48172	chrY	28808204	.	T	C	708.78	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48173	chrY	28808210	.	A	G	690.46	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48174	chrY	28808237	.	G	A	2111.26	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
48175	chrY	28808252	.	C	T	2366.19	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
48176	chrY	28808315	.	G	A	75.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48177	chrY	28808333	.	C	T	84.03	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48178	chrY	28808344	.	C	G	87.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48179	chrY	28808346	.	A	C	89.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48180	chrY	28808365	.	A	G	128.66	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48181	chrY	28808367	.	T	G	131.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48182	chrY	28808378	.	T	A	152.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48183	chrY	28808380	.	C	G	161.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48184	chrY	28808381	.	T	A	158.54	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

48185	chrY	28808387	.	T	A	240.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48186	chrY	28808392	.	A	G	281.68	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48187	chrY	28808396	.	A	G	281.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48188	chrY	28808679	.	C	G	190.39	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
48189	chrY	28808683	.	T	C	190.48	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
48190	chrY	28808685	.	A	G	193.36	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
48191	chrY	28808707	.	A	G	409.89	my_snp_filter	AC=6;AF=0.150;AN=40;BaseQ
48192	chrY	28808737	.	T	C	1340.10	my_snp_filter	AC=10;AF=0.192;AN=52;Base
48193	chrY	28808749	.	A	T	1289.19	my_snp_filter	AC=10;AF=0.208;AN=48;Base
48194	chrY	28808785	.	A	G	1032.72	my_snp_filter	AC=15;AF=0.250;AN=60;Base
48195	chrY	28808818	.	A	G	430.07	PASS	AC=4;AF=0.065;AN=62;BaseQRankSum=
48196	chrY	28808830	.	C	A	526.29	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
48197	chrY	28808836	.	A	T	526.74	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
48198	chrY	28808898	.	T	G	206.91	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
48199	chrY	28808976	.	C	T	3559.63	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=
48200	chrY	28808987	.	G	A	3456.31	PASS	AC=18;AF=0.300;AN=60;BaseQRankSum=
48201	chrY	28809001	.	T	A	494.31	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
48202	chrY	28809033	.	A	G	927.39	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
48203	chrY	28809058	.	A	T	49.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48204	chrY	28809076	.	G	C	436.14	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48205	chrY	28809092	.	T	C	218.58	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48206	chrY	28809142	.	C	T	299.10	PASS	AC=2;AF=0.029;AN=70;DP=660;FS=0.0
48207	chrY	28809196	.	A	T	108.97	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48208	chrY	28809216	.	A	G	148.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48209	chrY	28809237	.	G	T	241.03	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48210	chrY	28809241	.	G	A	220	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48211	chrY	28809247	.	G	T	171.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48212	chrY	28809404	.	A	T	44.87	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
48213	chrY	28809415	.	T	C	116.52	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
48214	chrY	28809437	.	T	G	201.29	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48215	chrY	28809440	.	G	T	193.72	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
48216	chrY	28809587	.	G	A	47.24	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48217	chrY	28809590	.	A	C	45.88	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48218	chrY	28809622	.	A	T	219.84	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48219	chrY	28809624	.	C	A	261.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48220	chrY	28809633	.	C	T	1136.56	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48221	chrY	28809634	.	G	C	1136.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48222	chrY	28809636	.	C	A	568.48	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48223	chrY	28809643	.	G	A	430.29	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48224	chrY	28809645	.	C	T	622.77	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48225	chrY	28809669	.	A	G	724.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48226	chrY	28809680	.	A	C,G	592.85	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
48227	chrY	28809705	.	G	T	158.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48228	chrY	28809708	.	T	A	64.01	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48229	chrY	28809714	.	C	A	1059.44	PASS	AC=6;AF=0.094;AN=64;BaseQRankSum=
48230	chrY	28809715	.	T	C,G	5427.63	my_snp_filter	AC=16,2;AF=0.258,0.032;AN
48231	chrY	28809722	.	G	C	350.71	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48232	chrY	28809733	.	T	A	1410.07	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
48233	chrY	28809734	.	G	T	303.76	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
48234	chrY	28809739	.	G	T	3783.76	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
48235	chrY	28809740	.	G	T	3746.55	PASS	AC=16;AF=0.250;AN=64;BaseQRankSum=
48236	chrY	28809747	.	A	T	58.65	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48237	chrY	28809753	.	T	C	382.01	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48238	chrY	28809754	.	A	G	1208.56	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48239	chrY	28809757	.	T	C	6622.58	PASS	AC=19;AF=0.328;AN=58;BaseQRankSum=
48240	chrY	28809759	.	G	A	107.27	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48241	chrY	28809760	.	G	C	1016.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48242	chrY	28809762	.	T	G	1083.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48243	chrY	28809765	.	G	C	94.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48244	chrY	28809769	.	G	T	390.22	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48245	chrY	28809773	.	C	T	7748.10	PASS	AC=19;AF=0.365;AN=52;BaseQRankSum=
48246	chrY	28809774	.	A	C	387.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48247	chrY	28809777	.	G	T	172.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48248	chrY	28809780	.	G	C	7945.59	PASS	AC=19;AF=0.396;AN=48;BaseQRankSum=
48249	chrY	28809782	.	G	C	194.12	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48250	chrY	28809787	.	C	T	7708.69	PASS	AC=19;AF=0.380;AN=50;BaseQRankSum=
48251	chrY	28809792	.	G	T	502.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48252	chrY	28809795	.	C	G	12812.43	PASS	AC=28;AF=0.467;AN=60;Base
48253	chrY	28809816	.	A	T	382.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48254	chrY	28809824	.	T	G	84.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48255	chrY	28809840	.	G	A	515.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48256	chrY	28809845	.	T	G,A	15276.46	PASS	AC=32,1;AF=0.471,0.015;AN
48257	chrY	28809848	.	C	T	259.64	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48258	chrY	28809849	.	A	G	257.06	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48259	chrY	28809859	.	T	A,G	13747.08	PASS	AC=3,28;AF=0.044,0.412;AN
48260	chrY	28809881	.	T	A	1260.93	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=

48261	chrY	28809882	.	A	G	18246.60	PASS	AC=31;AF=0.456;AN=68;BaseQ
48262	chrY	28809890	.	G	C	1446.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48263	chrY	28809909	.	G	A	154.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48264	chrY	28809911	.	A	G	50.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48265	chrY	28809929	.	C	A	1682.99	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48266	chrY	28809934	.	A	G	34829.13	PASS	AC=27;AF=0.482;AN=56;BaseQ
48267	chrY	28809938	.	T	G	32772.41	PASS	AC=24;AF=0.414;AN=58;BaseQ
48268	chrY	28809941	.	T	A	1397.97	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48269	chrY	28809945	.	A	G	1142.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48270	chrY	28809950	.	A	C	691.05	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48271	chrY	28809954	.	C	G	28231.99	PASS	AC=25;AF=0.481;AN=52;BaseQ
48272	chrY	28809959	.	C	G	392.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48273	chrY	28809960	.	G	C	951.93	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48274	chrY	28809968	.	A	C	35.14	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48275	chrY	28809970	.	T	C	371.43	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48276	chrY	28809979	.	C	A	620.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48277	chrY	28809984	.	G	T	36.44	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48278	chrY	28809986	.	G	A	767.16	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
48279	chrY	28809987	.	T	A	2749.34	PASS	AC=12;AF=0.176;AN=68;DP=981;FS=0.
48280	chrY	28809990	.	G	A	692.73	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48281	chrY	28809992	.	A	T	605.86	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48282	chrY	28809998	.	A	C	816.36	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48283	chrY	28809999	.	T	C	865.97	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48284	chrY	28810003	.	G	T	725.06	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48285	chrY	28810006	.	A	G	838.94	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48286	chrY	28810011	.	T	G	16961.81	PASS	AC=52;AF=0.743;AN=70;BaseQ
48287	chrY	28810017	.	A	T	1146.47	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48288	chrY	28810019	.	A	G	1265.09	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
48289	chrY	28810025	.	A	C	1363.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48290	chrY	28810031	.	A	G	1449.36	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48291	chrY	28810040	.	A	T	37.61	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
48292	chrY	28810045	.	A	G	1713.87	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48293	chrY	28810070	.	T	A	1563.57	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
48294	chrY	28810073	.	A	G	1526.53	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
48295	chrY	28810076	.	G	T	1516.81	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48296	chrY	28810079	.	A	G	1502.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48297	chrY	28810081	.	C	A	19547.31	PASS	AC=27;AF=0.409;AN=66;BaseQ
48298	chrY	28810087	.	T	C	799.36	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48299	chrY	28810097	.	C	T	1840.54	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48300	chrY	28810098	.	T	A	27150.76	PASS	AC=23;AF=0.329;AN=70;BaseQ
48301	chrY	28810099	.	C	T	173.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48302	chrY	28810105	.	A	C,*	19725.74	PASS	AC=1,16;AF=0.014,0.229;AN=
48303	chrY	28810107	.	A	G,T,*	19510.04	PASS	AC=1,7,15;AF=0.015,0.106,
48304	chrY	28810117	.	T	C,*	21397.49	PASS	AC=3,19;AF=0.043,0.271;AN=
48305	chrY	28810122	.	T	C,*	22946.05	PASS	AC=4,21;AF=0.057,0.300;AN=
48306	chrY	28810132	.	T	C,*	21549.79	PASS	AC=4,18;AF=0.057,0.257;AN=
48307	chrY	28810149	.	G	A,*	16543.32	PASS	AC=6,16;AF=0.088,0.235;AN=
48308	chrY	28810158	.	G	A,*	15920.17	PASS	AC=5,15;AF=0.071,0.214;AN=
48309	chrY	28810161	.	T	G,*	3510.42	PASS	AC=13,4;AF=0.203,0.063;AN=64;BaseQ
48310	chrY	28810173	.	G	A	211.73	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48311	chrY	28810184	.	G	T	32996.01	PASS	AC=26;AF=0.448;AN=58;BaseQ
48312	chrY	28810212	.	G	T	32792.51	PASS	AC=31;AF=0.500;AN=62;BaseQ
48313	chrY	28810223	.	G	A	364.49	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48314	chrY	28810229	.	G	T	254.64	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48315	chrY	28810260	.	C	A,T	30156.76	PASS	AC=31,3;AF=0.500,0.048;AN=
48316	chrY	28810261	.	G	C	1312.68	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
48317	chrY	28810277	.	T	A	511.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48318	chrY	28810285	.	G	C	26527.43	PASS	AC=28;AF=0.424;AN=66;BaseQ
48319	chrY	28810293	.	C	G	2372.70	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
48320	chrY	28810306	.	A	G	2555.07	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
48321	chrY	28810308	.	G	C	30207.87	my_snp_filter	AC=16;AF=0.229;AN=
48322	chrY	28810339	.	A	T	66.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48323	chrY	28810347	.	G	A	109.47	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48324	chrY	28810371	.	C	A	518.59	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48325	chrY	28810372	.	A	T	51054.29	PASS	AC=32;AF=0.457;AN=70;BaseQ
48326	chrY	28810379	.	A	T	145.02	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48327	chrY	28810387	.	C	G	53.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48328	chrY	28810391	.	C	G	42170.59	PASS	AC=31;AF=0.443;AN=70;BaseQ
48329	chrY	28810397	.	G	C	30.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48330	chrY	28810406	.	T	C	314.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48331	chrY	28810410	.	G	T	91.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48332	chrY	28810439	.	T	G	47734.20	PASS	AC=33;AF=0.471;AN=70;BaseQ
48333	chrY	28810468	.	A	G	33.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48334	chrY	28810469	.	G	T	243.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48335	chrY	28810476	.	T	G	18406.90	PASS	AC=32;AF=0.471;AN=68;BaseQ
48336	chrY	28810503	.	A	G	475.23	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ

48337	chrY	28810515	.	T	A	49.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48338	chrY	28810524	.	G	T	170.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48339	chrY	28810527	.	G	T	123.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48340	chrY	28810533	.	G	A	78.64	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
48341	chrY	28810536	.	A	G,*	145840.90	PASS	AC=1,32;AF=0.014,0.457;AN
48342	chrY	28810551	.	A	G	197821.67	PASS	AC=34;AF=0.500;AN=68;Base
48343	chrY	28810553	.	T	A	198041.67	PASS	AC=34;AF=0.500;AN=68;Base
48344	chrY	28810584	.	G	A	30.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48345	chrY	28810607	.	G	C	91.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48346	chrY	28810612	.	C	T	149776.72	PASS	AC=35;AF=0.500;AN=70;Base
48347	chrY	28810613	.	G	A	415.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48348	chrY	28810627	.	G	C	2140.98	my_snp_filter	AC=10;AF=0.143;AN=70;Base
48349	chrY	28810632	.	A	G,T	179837.89	PASS	AC=37,1;AF=0.529,0.014;AN
48350	chrY	28810633	.	A	T	207.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48351	chrY	28810647	.	G	C	533.87	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48352	chrY	28810665	.	C	T	68.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48353	chrY	28810689	.	A	G	2947.37	my_snp_filter	AC=23;AF=0.329;AN=70;Base
48354	chrY	28810700	.	T	C	15313.46	PASS	AC=28;AF=0.412;AN=68;Base
48355	chrY	28810702	.	A	G	55533.06	PASS	AC=37;AF=0.544;AN=68;Base
48356	chrY	28810721	.	T	A	30.59	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48357	chrY	28810738	.	T	C	5120.55	PASS	AC=17;AF=0.266;AN=64;BaseQRankSum
48358	chrY	28810748	.	T	A	3178.47	PASS	AC=14;AF=0.219;AN=64;BaseQRankSum
48359	chrY	28810768	.	A	C	1288.59	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
48360	chrY	28810780	.	A	G	645.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48361	chrY	28810784	.	C	G	457.09	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
48362	chrY	28810788	.	A	T	742.67	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48363	chrY	28810803	.	T	A	1112.85	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
48364	chrY	28810812	.	G	T	225.48	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48365	chrY	28810823	.	T	G	616.02	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48366	chrY	28810832	.	A	C	1603.25	PASS	AC=5;AF=0.093;AN=54;BaseQRankSum=
48367	chrY	28810833	.	C	T	2406.21	PASS	AC=9;AF=0.167;AN=54;BaseQRankSum=
48368	chrY	28810848	.	G	T	23197.53	PASS	AC=34;AF=0.486;AN=70;Base
48369	chrY	28810859	.	A	G	29369.72	PASS	AC=34;AF=0.486;AN=70;Base
48370	chrY	28810872	.	T	G	20289.43	PASS	AC=22;AF=0.314;AN=70;Base
48371	chrY	28810898	.	C	T	22921.22	PASS	AC=25;AF=0.357;AN=70;Base
48372	chrY	28810954	.	G	A	52.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48373	chrY	28810982	.	A	G	12805.36	PASS	AC=33;AF=0.471;AN=70;Base
48374	chrY	28810989	.	T	A	10743.73	PASS	AC=33;AF=0.471;AN=70;Base
48375	chrY	28810999	.	C	G	233.45	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48376	chrY	28811010	.	G	A	199.89	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48377	chrY	28811012	.	T	A	38229.37	PASS	AC=27;AF=0.409;AN=66;Base
48378	chrY	28811013	.	C	T	559.11	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
48379	chrY	28811015	.	G	C	35038.97	PASS	AC=27;AF=0.397;AN=68;Base
48380	chrY	28811042	.	T	A	31872.03	PASS	AC=27;AF=0.409;AN=66;Base
48381	chrY	28811050	.	A	T	234.98	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48382	chrY	28811068	.	G	A	20761.44	my_snp_filter	AC=27;AF=0.397;AN
48383	chrY	28811085	.	G	A	661.25	my_snp_filter	AC=11;AF=0.157;AN=70;Base
48384	chrY	28811092	.	T	G	15952.08	my_snp_filter	AC=30;AF=0.429;AN
48385	chrY	28811098	.	C	G	10708.99	my_snp_filter	AC=27;AF=0.397;AN
48386	chrY	28811106	.	T	C	44.12	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48387	chrY	28811121	.	T	A	673.73	my_snp_filter	AC=12;AF=0.171;AN=70;Base
48388	chrY	28811123	.	G	T	252.92	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48389	chrY	28811127	.	G	A	1124.62	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
48390	chrY	28811148	.	G	T,C	820.74	PASS	AC=10,1;AF=0.143,0.014;AN=70;Base
48391	chrY	28811163	.	G	A	1509.20	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
48392	chrY	28811172	.	G	T	261.79	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48393	chrY	28811173	.	G	C	198.84	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48394	chrY	28811176	.	A	T	272.36	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
48395	chrY	28811181	.	C	T	141.26	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
48396	chrY	28811226	.	T	A	295.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48397	chrY	28811228	.	C	G	558.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48398	chrY	28811229	.	T	A	557.39	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48399	chrY	28811235	.	T	A	1108.42	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48400	chrY	28811244	.	A	G	869.26	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48401	chrY	28811245	.	C	G	909.96	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48402	chrY	28811248	.	C	G	729.06	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48403	chrY	28811255	.	A	G	26532.24	PASS	AC=68;AF=0.971;AN=70;Base
48404	chrY	28811286	.	T	C	708.40	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
48405	chrY	28811311	.	C	T	266.83	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48406	chrY	28811353	.	G	A	424.17	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48407	chrY	28811360	.	A	G	418.80	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48408	chrY	28811362	.	T	G	422.18	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
48409	chrY	28811500	.	G	A	469.95	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48410	chrY	28811516	.	T	C	1072.73	PASS	AC=6;AF=0.086;AN=70;DP=549;FS=0.0
48411	chrY	28811567	.	A	G	607.30	PASS	AC=2;AF=0.029;AN=70;DP=490;FS=0.0
48412	chrY	28811572	.	C	A	636	PASS	AC=2;AF=0.029;AN=70;DP=480;FS=0.0

48413	chrY	28811590	.	T	A	1220.43	PASS	AC=6;AF=0.086;AN=70;DP=460;FS=0.0
48414	chrY	28811621	.	G	T	375.29	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
48415	chrY	28811805	.	T	C	251.93	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48416	chrY	28811829	.	C	T	1617.89	my_snp_filter	AC=13;AF=0.186;AN=70;Base
48417	chrY	28811840	.	G	A	1625.69	my_snp_filter	AC=14;AF=0.200;AN=70;Base
48418	chrY	28811854	.	T	A	105.65	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48419	chrY	28811874	.	T	C	46.67	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
48420	chrY	28811884	.	A	T	469.22	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
48421	chrY	28811890	.	C	G	184.37	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
48422	chrY	28811945	.	T	G	32.36	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48423	chrY	28811948	.	C	T	2669.24	PASS	AC=22;AF=0.324;AN=68;BaseQRankSum=
48424	chrY	28811970	.	T	G	35.24	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48425	chrY	28812009	.	G	A	312.36	my_snp_filter	AC=9;AF=0.136;AN=66;BaseQ
48426	chrY	28812010	.	G	C	85.20	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48427	chrY	28812048	.	G	C	651.27	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
48428	chrY	28812067	.	T	G	589.95	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
48429	chrY	28812130	.	C	T	567.47	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48430	chrY	28812239	.	G	A	424.46	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
48431	chrY	28812259	.	A	G	1688.55	my_snp_filter	AC=9;AF=0.321;AN=28;BaseQ
48432	chrY	28812268	.	T	C	652.46	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
48433	chrY	28812287	.	A	T,*	414.65	my_snp_filter	AC=6,1;AF=0.086,0.014;AN=
48434	chrY	28812290	.	T	G,*	8007.23	my_snp_filter	AC=9,1;AF=0.132,0.015;AN=
48435	chrY	28812293	.	G	A,T,*	7605.27	my_snp_filter	AC=2,7,1;AF=0.029,0.103,0
48436	chrY	28812340	.	G	A	15950.76	my_snp_filter	AC=28;AF=0.400;AN=
48437	chrY	28812373	.	T	A	2087.06	my_snp_filter	AC=10;AF=0.143;AN=70;Base
48438	chrY	28812377	.	A	G	20586.97	my_snp_filter	AC=3;AF=0.429;AN=
48439	chrY	28812412	.	T	A	74965.72	my_snp_filter	AC=35;AF=0.500;AN=
48440	chrY	28812440	.	G	A	67189.72	my_snp_filter	AC=35;AF=0.500;AN=
48441	chrY	28812443	.	A	C	31167.45	my_snp_filter	AC=28;AF=0.400;AN=
48442	chrY	28812452	.	C	G	142.74	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48443	chrY	28812459	.	A	T	448.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48444	chrY	28812467	.	T	G	435.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48445	chrY	28812471	.	T	A	46.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48446	chrY	28812475	.	A	T,G	45664.72	my_snp_filter	AC=1,34;AF=0.014,
48447	chrY	28812477	.	C	A	84405.72	my_snp_filter	AC=35;AF=0.500;AN=
48448	chrY	28812484	.	A	G	581.58	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48449	chrY	28812487	.	G	C	82831.72	my_snp_filter	AC=35;AF=0.500;AN=
48450	chrY	28812488	.	G	A	5934.89	my_snp_filter	AC=28;AF=0.400;AN=70;Base
48451	chrY	28812491	.	T	A	61436.72	my_snp_filter	AC=35;AF=0.500;AN=
48452	chrY	28812547	.	G	A	30.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48453	chrY	28812548	.	T	G	79686.72	my_snp_filter	AC=35;AF=0.500;AN=
48454	chrY	28812550	.	G	T	1653.86	my_snp_filter	AC=16;AF=0.229;AN=70;Base
48455	chrY	28812551	.	T	C	279.81	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48456	chrY	28812557	.	G	A	51.90	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48457	chrY	28812558	.	G	T	94.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48458	chrY	28812559	.	C	A	83880.72	my_snp_filter	AC=35;AF=0.500;AN=
48459	chrY	28812592	.	G	T	64569.20	my_snp_filter	AC=30;AF=0.469;AN=
48460	chrY	28812593	.	G	T	42709.89	my_snp_filter	AC=18;AF=0.281;AN=
48461	chrY	28812610	.	T	C	48718.47	my_snp_filter	AC=21;AF=0.300;AN=
48462	chrY	28812612	.	G	C,A	6460.71	my_snp_filter	AC=25,3;AF=0.379,0.045;AN=
48463	chrY	28812613	.	G	T	5688.22	my_snp_filter	AC=26;AF=0.394;AN=66;Base
48464	chrY	28812617	.	G	C	4955.70	my_snp_filter	AC=25;AF=0.357;AN=70;Base
48465	chrY	28812618	.	G	C	328.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48466	chrY	28812622	.	G	T	62.91	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48467	chrY	28812626	.	C	T	44441.93	my_snp_filter	AC=17;AF=0.250;AN=
48468	chrY	28812630	.	G	T	1045.81	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
48469	chrY	28812633	.	G	T,C	44743.47	my_snp_filter	AC=7,15;AF=0.106,
48470	chrY	28812635	.	G	C	1871.06	my_snp_filter	AC=9;AF=0.132;AN=68;BaseQ
48471	chrY	28812640	.	C	T	43955.96	my_snp_filter	AC=14;AF=0.212;AN=
48472	chrY	28812645	.	G	T	300.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48473	chrY	28812648	.	C	G	56020.80	my_snp_filter	AC=19;AF=0.306;AN=
48474	chrY	28812673	.	C	G	48102.46	my_snp_filter	AC=20;AF=0.313;AN=
48475	chrY	28812716	.	A	G	66.66	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48476	chrY	28812732	.	G	C,T	296.86	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
48477	chrY	28812733	.	T	G	56523.97	PASS	AC=17;AF=0.243;AN=70;Base
48478	chrY	28812735	.	A	G	41370.87	PASS	AC=26;AF=0.371;AN=70;Base
48479	chrY	28812759	.	C	A	82809.05	PASS	AC=29;AF=0.414;AN=70;Base
48480	chrY	28812760	.	G	A	57.59	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48481	chrY	28812763	.	G	A	51.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48482	chrY	28812791	.	T	G,C	77550.81	PASS	AC=23,5;AF=0.329,0.071;AN=
48483	chrY	28812796	.	C	T	77287.65	PASS	AC=23;AF=0.329;AN=70;Base
48484	chrY	28812803	.	A	C	9420.92	my_snp_filter	AC=10;AF=0.143;AN=70;Base
48485	chrY	28812807	.	C	G	71863.60	PASS	AC=22;AF=0.314;AN=70;Base
48486	chrY	28812813	.	A	G	68379.93	PASS	AC=20;AF=0.286;AN=70;Base
48487	chrY	28812833	.	A	T	3761.63	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
48488	chrY	28812839	.	A	G	30.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=

48489	chrY	28812842	.	G	A	5334.99	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
48490	chrY	28812846	.	G	A	151.90	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48491	chrY	28812852	.	T	C	43229.80	PASS	AC=13;AF=0.186;AN=70;BaseQ
48492	chrY	28812860	.	T	G,C	34724.75	PASS	AC=24,11;AF=0.343,0.157;AN=70;BaseQ
48493	chrY	28812871	.	G	T	26117.19	PASS	AC=33;AF=0.471;AN=70;BaseQ
48494	chrY	28812874	.	A	C	8044.73	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
48495	chrY	28812877	.	G	T	33088.98	PASS	AC=12;AF=0.171;AN=70;BaseQ
48496	chrY	28812893	.	A	T	14781.31	PASS	AC=11;AF=0.157;AN=70;BaseQ
48497	chrY	28812894	.	A	G	1259.02	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
48498	chrY	28812907	.	G	C	825.79	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48499	chrY	28812919	.	A	T	7803.27	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
48500	chrY	28812921	.	A	G	59315.99	PASS	AC=38;AF=0.543;AN=70;BaseQ
48501	chrY	28812934	.	C	A	12300.97	PASS	AC=12;AF=0.171;AN=70;BaseQ
48502	chrY	28812936	.	T	G	13250.93	PASS	AC=12;AF=0.171;AN=70;BaseQ
48503	chrY	28812951	.	T	A	17803.98	PASS	AC=12;AF=0.171;AN=70;BaseQ
48504	chrY	28812958	.	A	G,*	3906.78	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
48505	chrY	28812960	.	A	T,*	4027.54	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
48506	chrY	28812970	.	T	C,*	4100.32	PASS	AC=3,5;AF=0.043,0.071;AN=70;BaseQ
48507	chrY	28812980	.	T	A,*	25829.84	PASS	AC=33,1;AF=0.471,0.014;AN=70;BaseQ
48508	chrY	28812984	.	G	T	101.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48509	chrY	28812994	.	G	C,*	5398.68	PASS	AC=5,6;AF=0.071,0.086;AN=70;BaseQ
48510	chrY	28813005	.	T	A	1361.40	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48511	chrY	28813021	.	G	A,*	5218.45	PASS	AC=1,9;AF=0.014,0.129;AN=70;BaseQ
48512	chrY	28813037	.	G	T	18713.42	PASS	AC=10;AF=0.167;AN=60;BaseQ
48513	chrY	28813052	.	G	T	237.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48514	chrY	28813058	.	C	T	2788.89	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
48515	chrY	28813069	.	C	G	290.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48516	chrY	28813077	.	A	G	36219.20	PASS	AC=33;AF=0.471;AN=70;BaseQ
48517	chrY	28813083	.	A	G	113.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48518	chrY	28813086	.	A	G	129155.89	PASS	AC=41;AF=0.586;AN=70;BaseQ
48519	chrY	28813091	.	G	A	20028.98	my_snp_filter	AC=32;AF=0.457;AN=70;BaseQ
48520	chrY	28813092	.	C	G	35.55	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48521	chrY	28813117	.	G	C	385.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48522	chrY	28813122	.	C	G	90527.61	my_snp_filter	AC=36;AF=0.514;AN=70;BaseQ
48523	chrY	28813125	.	T	C	4100.21	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
48524	chrY	28813130	.	T	A	308.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48525	chrY	28813138	.	C	T	196.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48526	chrY	28813146	.	C	G	11643.89	my_snp_filter	AC=26;AF=0.371;AN=70;BaseQ
48527	chrY	28813166	.	G	T	103.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48528	chrY	28813176	.	G	C,*	502.77	my_snp_filter	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
48529	chrY	28813200	.	G	A	405.56	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48530	chrY	28813201	.	C	G	134.75	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48531	chrY	28813204	.	A	T	34.08	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48532	chrY	28813240	.	C	G	89.23	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48533	chrY	28813244	.	C	G	39840.72	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQ
48534	chrY	28813259	.	C	T	31556.72	my_snp_filter	AC=35;AF=0.500;AN=70;BaseQ
48535	chrY	28813304	.	A	T	15798.59	my_snp_filter	AC=31;AF=0.443;AN=70;BaseQ
48536	chrY	28813323	.	T	C	122.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48537	chrY	28813338	.	T	G	4280.98	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
48538	chrY	28813343	.	T	C	3165.05	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
48539	chrY	28813357	.	A	T	149.95	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48540	chrY	28813363	.	G	C	272.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48541	chrY	28813372	.	T	G	574.40	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48542	chrY	28813430	.	G	C	2003.73	PASS	AC=6;AF=0.086;AN=70;DP=844;FS=0.0
48543	chrY	28813531	.	G	A	104.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48544	chrY	28813553	.	T	C	107.74	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48545	chrY	28813592	.	T	C	95.25	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48546	chrY	28813594	.	G	A	261.32	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48547	chrY	28813602	.	T	A	252.78	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48548	chrY	28813604	.	T	C	262.53	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48549	chrY	28813634	.	A	G	5226.36	my_snp_filter	AC=17;AF=0.293;AN=58;BaseQ
48550	chrY	28813640	.	C	G	8886.37	my_snp_filter	AC=30;AF=0.429;AN=70;BaseQ
48551	chrY	28813643	.	C	A	8909.52	my_snp_filter	AC=30;AF=0.429;AN=70;BaseQ
48552	chrY	28813664	.	T	C	178.76	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48553	chrY	28813672	.	T	G	1200.50	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48554	chrY	28813673	.	G	T	1192	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48555	chrY	28813677	.	T	G	30.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48556	chrY	28813681	.	G	A	15866.57	my_snp_filter	AC=23;AF=0.329;AN=70;BaseQ
48557	chrY	28813686	.	A	C	362.41	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
48558	chrY	28813687	.	C	T	16441.88	my_snp_filter	AC=20;AF=0.357;AN=70;BaseQ
48559	chrY	28813695	.	A	G	16670.16	my_snp_filter	AC=20;AF=0.357;AN=70;BaseQ
48560	chrY	28813708	.	T	A	511.47	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48561	chrY	28813720	.	G	A,*	6979.21	my_snp_filter	AC=17,4;AF=0.250,0.059;AN=70;BaseQ
48562	chrY	28813723	.	C	A,G,*	7314.23	PASS	AC=11,15,2;AF=0.157,0.214,0.029;AN=70;BaseQ
48563	chrY	28813726	.	T	G	16104.53	PASS	AC=20;AF=0.294;AN=68;BaseQ
48564	chrY	28813748	.	G	A	51.37	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

48565	chrY	28813749	.	C	G	22776.17	PASS	AC=31;AF=0.456;AN=68;BaseQ
48566	chrY	28813779	.	G	C	168.40	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48567	chrY	28813787	.	T	G	1391.38	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
48568	chrY	28813789	.	C	T	539.94	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48569	chrY	28813828	.	G	A	35386.29	PASS	AC=29;AF=0.414;AN=70;BaseQ
48570	chrY	28813833	.	G	T	41435.58	PASS	AC=30;AF=0.429;AN=70;BaseQ
48571	chrY	28813839	.	A	C	889.08	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48572	chrY	28813845	.	A	T	635.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
48573	chrY	28813849	.	G	A	1426.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
48574	chrY	28813862	.	T	G	10586.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
48575	chrY	28813876	.	T	A	394.26	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
48576	chrY	28813877	.	C	T	132.49	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
48577	chrY	28813878	.	G	A	12410.90	PASS	AC=34;AF=0.486;AN=70;BaseQ
48578	chrY	28813879	.	G	C	320.11	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
48579	chrY	28813887	.	C	G	1365.39	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
48580	chrY	28813897	.	A	C	3040.65	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
48581	chrY	28813902	.	C	A	3690.13	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
48582	chrY	28813906	.	T	G	3992.93	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum=
48583	chrY	28813909	.	T	G	4074.92	PASS	AC=15;AF=0.242;AN=62;BaseQRankSum=
48584	chrY	28813933	.	G	A	202.65	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48585	chrY	28813954	.	T	G	502.58	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
48586	chrY	28813962	.	C	G	705.09	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
48587	chrY	28813974	.	G	T	152.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48588	chrY	28813987	.	A	G,T	3142.97	PASS	AC=20,1;AF=0.323,0.016;AN=62;BaseQ
48589	chrY	28814022	.	G	T	1502.27	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
48590	chrY	28814027	.	G	A	1819.31	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
48591	chrY	28814045	.	C	T,A	2709.75	my_snp_filter	AC=11,1;AF=0.196,0.018;AN=
48592	chrY	28814048	.	A	C	389.66	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48593	chrY	28814051	.	G	T	125.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48594	chrY	28814057	.	G	A	94.08	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48595	chrY	28814058	.	A	C	1702.77	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
48596	chrY	28814061	.	G	T	38.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48597	chrY	28814062	.	G	T	37.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48598	chrY	28814071	.	G	T	116.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48599	chrY	28814074	.	G	T	574.49	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48600	chrY	28814077	.	A	G	1490.86	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
48601	chrY	28814079	.	T	G	1858.87	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
48602	chrY	28814090	.	T	A	1316.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48603	chrY	28814092	.	C	G	1501.23	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
48604	chrY	28814093	.	T	A	1275.62	my_snp_filter	AC=1;AF=0.016;AN=62;BaseQ
48605	chrY	28814099	.	T	A	1257.10	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
48606	chrY	28814100	.	T	C	222.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48607	chrY	28814116	.	C	G	232.23	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48608	chrY	28814184	.	A	G	110.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48609	chrY	28814189	.	G	A	135.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48610	chrY	28814194	.	T	G,*	270.07	my_snp_filter	AC=5,1;AF=0.074,0.015;AN=
48611	chrY	28814217	.	G	C	50.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48612	chrY	28814230	.	A	T	28736.51	PASS	AC=69;AF=0.986;AN=70;BaseQ
48613	chrY	28814249	.	T	G	682.44	my_snp_filter	AC=9;AF=0.150;AN=60;BaseQ
48614	chrY	28814258	.	G	A	236.13	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
48615	chrY	28814264	.	G	A	219.22	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
48616	chrY	28814307	.	G	T	1476.86	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
48617	chrY	28814342	.	T	G	1980.26	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
48618	chrY	28814356	.	T	G	509.17	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48619	chrY	28814381	.	A	G	7558.53	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
48620	chrY	28814386	.	T	C	7047.11	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
48621	chrY	28814393	.	C	G	6280.06	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
48622	chrY	28814398	.	G	A	11879.56	my_snp_filter	AC=47;AF=0.691;AN=
48623	chrY	28814425	.	A	T	3444.52	my_snp_filter	AC=27;AF=0.482;AN=56;BaseQ
48624	chrY	28814439	.	A	T	1556.35	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQ
48625	chrY	28814440	.	A	G	1509.23	my_snp_filter	AC=14;AF=0.250;AN=56;BaseQ
48626	chrY	28814445	.	C	G	33.47	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
48627	chrY	28814477	.	T	C	65.30	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
48628	chrY	28814490	.	T	C	237.16	PASS	AC=2;AF=0.032;AN=62;BaseQRankSum=
48629	chrY	28814512	.	A	G	459.79	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
48630	chrY	28814557	.	C	A	7065.42	my_snp_filter	AC=11;AF=0.212;AN=52;BaseQ
48631	chrY	28814563	.	A	T	6350.83	my_snp_filter	AC=11;AF=0.196;AN=56;BaseQ
48632	chrY	28814590	.	T	G	7158.12	my_snp_filter	AC=10;AF=0.208;AN=48;BaseQ
48633	chrY	28814591	.	C	A	7256.56	my_snp_filter	AC=10;AF=0.208;AN=48;BaseQ
48634	chrY	28814592	.	A	C	1163.24	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQ
48635	chrY	28814603	.	A	C	7625.22	my_snp_filter	AC=13;AF=0.283;AN=46;BaseQ
48636	chrY	28814625	.	T	G	7893.31	my_snp_filter	AC=14;AF=0.318;AN=44;BaseQ
48637	chrY	28814668	.	T	A	3057.28	my_snp_filter	AC=24;AF=0.375;AN=64;BaseQ
48638	chrY	28814703	.	C	T	18823.97	PASS	AC=14;AF=0.467;AN=30;BaseQ
48639	chrY	28814714	.	G	A	23685.97	PASS	AC=14;AF=0.500;AN=28;BaseQ
48640	chrY	28814728	.	T	A	7265.14	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=

48641	chrY	28814748	.	T	C	8974.77	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
48642	chrY	28814779	.	A	G	317.21	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48643	chrY	28814785	.	A	T,C	3885.21	my_snp_filter	AC=19,5;AF=0.271,0.071;AN
48644	chrY	28814800	.	A	T	1230.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
48645	chrY	28814814	.	G	C	75.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48646	chrY	28814819	.	T	G	296990.82	PASS	AC=60;AF=0.857;AN=70;Base
48647	chrY	28814844	.	T	G	103511.72	my_snp_filter	AC=35;AF=0.500;AN
48648	chrY	28814862	.	T	A	113.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48649	chrY	28814871	.	A	G	2905.82	my_snp_filter	AC=14;AF=0.200;AN=70;Base
48650	chrY	28814876	.	G	A	381.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48651	chrY	28814883	.	G	A	51197.72	my_snp_filter	AC=34;AF=0.486;AN
48652	chrY	28814884	.	G	C	28942.72	my_snp_filter	AC=35;AF=0.500;AN
48653	chrY	28814894	.	G	T	33.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48654	chrY	28814917	.	T	C	149.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48655	chrY	28814922	.	G	C	4055.44	my_snp_filter	AC=17;AF=0.567;AN=30;Base
48656	chrY	28814923	.	A	T	3883.44	my_snp_filter	AC=17;AF=0.567;AN=30;Base
48657	chrY	28814941	.	T	G	2840.35	my_snp_filter	AC=28;AF=1.00;AN=28;DP=12
48658	chrY	28814943	.	G	A	2201.27	my_snp_filter	AC=23;AF=0.639;AN=36;Base
48659	chrY	28814963	.	T	G	1475.26	my_snp_filter	AC=15;AF=0.938;AN=16;Base
48660	chrY	28814992	.	T	A	100.93	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48661	chrY	28815006	.	T	G	165.34	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
48662	chrY	28815009	.	T	C	159.99	my_snp_filter	AC=4;AF=0.063;AN=64;BaseQ
48663	chrY	28815016	.	C	T	149.21	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
48664	chrY	28815024	.	G	A	146.05	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
48665	chrY	28815032	.	C	T	148.94	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
48666	chrY	28815073	.	T	C	342.54	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
48667	chrY	28815086	.	C	T	2273.45	my_snp_filter	AC=12;AF=0.171;AN=70;Base
48668	chrY	28815092	.	A	T	3238.37	my_snp_filter	AC=12;AF=0.171;AN=70;Base
48669	chrY	28815103	.	G	C	1109.43	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
48670	chrY	28815107	.	C	T	7111.48	my_snp_filter	AC=12;AF=0.171;AN=70;Base
48671	chrY	28815126	.	G	C	27753.24	my_snp_filter	AC=47;AF=0.671;AN
48672	chrY	28815151	.	A	G	117.83	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48673	chrY	28815160	.	A	G	16929.46	my_snp_filter	AC=26;AF=0.371;AN
48674	chrY	28815162	.	C	T	51648.88	PASS	AC=70;AF=1.00;AN=70;BaseQ
48675	chrY	28815253	.	G	A	421.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48676	chrY	28815261	.	G	A	545.26	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48677	chrY	28815270	.	C	A	159475.86	my_snp_filter	AC=70;AF=1.00;AN=
48678	chrY	28815292	.	T	A	260.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48679	chrY	28815312	.	T	A	5311.71	my_snp_filter	AC=19;AF=0.271;AN=70;Base
48680	chrY	28815324	.	G	T	12565.93	PASS	AC=22;AF=0.314;AN=70;Base
48681	chrY	28815334	.	G	C,T	1118.45	my_snp_filter	AC=4,7;AF=0.057,0.100;AN=
48682	chrY	28815336	.	A	T	3815.20	my_snp_filter	AC=20;AF=0.286;AN=70;Base
48683	chrY	28815339	.	G	T	421.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48684	chrY	28815341	.	A	G	145.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48685	chrY	28815348	.	G	A	297.12	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48686	chrY	28815411	.	A	G	220.39	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48687	chrY	28815422	.	G	C	2283.36	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48688	chrY	28815440	.	A	G	53.76	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48689	chrY	28815453	.	A	T	287.97	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48690	chrY	28815489	.	A	G	4037.76	my_snp_filter	AC=13;AF=0.186;AN=70;Base
48691	chrY	28815499	.	A	T	11843.11	my_snp_filter	AC=25;AF=0.357;AN
48692	chrY	28815500	.	G	A	7097.73	my_snp_filter	AC=14;AF=0.200;AN=70;Base
48693	chrY	28815503	.	G	C	28212.30	my_snp_filter	AC=30;AF=0.429;AN
48694	chrY	28815523	.	A	G	640.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48695	chrY	28815534	.	C	A	17309.28	my_snp_filter	AC=16;AF=0.229;AN
48696	chrY	28815540	.	A	T	15472.99	my_snp_filter	AC=17;AF=0.243;AN
48697	chrY	28815569	.	A	C	2790.47	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48698	chrY	28815581	.	G	A	79424.84	my_snp_filter	AC=27;AF=0.386;AN
48699	chrY	28815602	.	T	G	82519.45	my_snp_filter	AC=28;AF=0.400;AN
48700	chrY	28815656	.	T	C	42548.38	my_snp_filter	AC=34;AF=0.486;AN
48701	chrY	28815680	.	C	T	33099.32	my_snp_filter	AC=28;AF=0.400;AN
48702	chrY	28815691	.	G	A	27455.69	my_snp_filter	AC=28;AF=0.400;AN
48703	chrY	28815765	.	A	T	136169.84	PASS	AC=36;AF=0.514;AN=70;Base
48704	chrY	28815820	.	G	A	56.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48705	chrY	28815829	.	A	T	61532.46	PASS	AC=23;AF=0.329;AN=70;Base
48706	chrY	28815853	.	G	A	548.71	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48707	chrY	28815864	.	C	T	137013.12	my_snp_filter	AC=64;AF=1.00;AN=
48708	chrY	28815900	.	A	T	89.18	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
48709	chrY	28816090	.	G	A	6659.51	my_snp_filter	AC=29;AF=0.426;AN=68;Base
48710	chrY	28816120	.	G	T	83.76	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48711	chrY	28816178	.	G	A	48105.72	PASS	AC=35;AF=0.500;AN=70;Base
48712	chrY	28816191	.	A	G	25078.20	PASS	AC=33;AF=0.471;AN=70;Base
48713	chrY	28816268	.	T	A	1519.78	my_snp_filter	AC=11;AF=0.157;AN=70;Base
48714	chrY	28816353	.	G	A	11304.16	my_snp_filter	AC=35;AF=0.500;AN
48715	chrY	28816451	.	G	A	89.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48716	chrY	28816457	.	C	T	416.27	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

48717	chrY	28816464	.	G	C	606.76	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48718	chrY	28816471	.	C	T	623.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48719	chrY	28816479	.	C	G	2872.24	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48720	chrY	28816504	.	C	G	959.80	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48721	chrY	28816543	.	T	G	953.86	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48722	chrY	28816566	.	A	G	1432.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48723	chrY	28816576	.	A	G	3832.72	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48724	chrY	28816590	.	C	A	588.27	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48725	chrY	28816602	.	T	A,G	156880.72	PASS	AC=3,32;AF=0.043,0.457;AN
48726	chrY	28816607	.	T	G	229045.72	PASS	AC=35;AF=0.500;AN=70;Base
48727	chrY	28816628	.	G	C	242.89	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48728	chrY	28816638	.	C	T	160960.72	PASS	AC=35;AF=0.500;AN=70;Base
48729	chrY	28816643	.	T	C	520.50	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48730	chrY	28816683	.	T	C	1956.30	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48731	chrY	28816691	.	T	C	2333.41	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48732	chrY	28816703	.	G	A	126357.72	PASS	AC=35;AF=0.500;AN=70;Base
48733	chrY	28816708	.	G	T	12200.77	my_snp_filter	AC=13;AF=0.186;AN
48734	chrY	28816724	.	A	T	13814.48	my_snp_filter	AC=12;AF=0.171;AN
48735	chrY	28816755	.	A	T	33975.53	PASS	AC=16;AF=0.229;AN=70;Base
48736	chrY	28816770	.	C	A	28138.51	PASS	AC=15;AF=0.214;AN=70;Base
48737	chrY	28816787	.	T	A	14526.87	PASS	AC=10;AF=0.143;AN=70;Base
48738	chrY	28816831	.	C	T	357299.72	PASS	AC=35;AF=0.500;AN=70;Base
48739	chrY	28816846	.	T	C	8455.98	my_snp_filter	AC=19;AF=0.271;AN=70;Base
48740	chrY	28816870	.	T	G	749957.66	PASS	AC=46;AF=0.657;AN=70;Base
48741	chrY	28816873	.	G	C,*	31886.12	my_snp_filter	AC=23,5;AF=0.329,
48742	chrY	28816878	.	C	G	459484.72	PASS	AC=35;AF=0.500;AN=70;Base
48743	chrY	28816894	.	T	C	4439.46	my_snp_filter	AC=15;AF=0.214;AN=70;Base
48744	chrY	28816927	.	G	A	7762.69	my_snp_filter	AC=17;AF=0.243;AN=70;Base
48745	chrY	28816935	.	G	A	1963.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48746	chrY	28816948	.	C	G	843079.86	PASS	AC=70;AF=1.00;AN=70;BaseQ
48747	chrY	28816962	.	G	T	7191.70	my_snp_filter	AC=17;AF=0.243;AN=70;Base
48748	chrY	28816999	.	G	A	851515.86	PASS	AC=70;AF=1.00;AN=70;BaseQ
48749	chrY	28817000	.	C	A	848878.86	PASS	AC=70;AF=1.00;AN=70;BaseQ
48750	chrY	28817022	.	T	A	2349.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48751	chrY	28817028	.	A	T	255.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48752	chrY	28817031	.	C	T	14032.26	my_snp_filter	AC=21;AF=0.300;AN
48753	chrY	28817058	.	C	T	109.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48754	chrY	28817079	.	G	A	25403.06	my_snp_filter	AC=23;AF=0.329;AN
48755	chrY	28817084	.	A	C	3427.68	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
48756	chrY	28817109	.	A	G	127268.72	my_snp_filter	AC=35;AF=0.500;AN
48757	chrY	28817189	.	T	A	748.78	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48758	chrY	28817191	.	G	T	24663.68	my_snp_filter	AC=29;AF=0.414;AN
48759	chrY	28817211	.	G	C	4758.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48760	chrY	28817222	.	G	A	181608.72	my_snp_filter	AC=35;AF=0.500;AN
48761	chrY	28817223	.	G	A	445.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48762	chrY	28817225	.	A	G	182086.72	my_snp_filter	AC=35;AF=0.500;AN
48763	chrY	28817238	.	G	A,T	193596.84	PASS	AC=20,16;AF=0.286,0.229;A
48764	chrY	28817240	.	A	G	165329.72	my_snp_filter	AC=35;AF=0.500;AN
48765	chrY	28817248	.	G	C	1003.46	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
48766	chrY	28817276	.	T	G	38473.45	my_snp_filter	AC=22;AF=0.314;AN
48767	chrY	28817286	.	T	G	83303.17	my_snp_filter	AC=32;AF=0.457;AN
48768	chrY	28817301	.	C	T	89714.72	my_snp_filter	AC=35;AF=0.500;AN
48769	chrY	28817389	.	T	C	48206.72	my_snp_filter	AC=35;AF=0.500;AN
48770	chrY	28817420	.	C	G	534911.72	PASS	AC=35;AF=0.500;AN=70;Base
48771	chrY	28817427	.	T	C	71862.86	my_snp_filter	AC=31;AF=0.443;AN
48772	chrY	28817458	.	C	A	2373.16	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48773	chrY	28817459	.	T	A	117298.72	my_snp_filter	AC=35;AF=0.500;AN
48774	chrY	28817469	.	A	G	128805.72	my_snp_filter	AC=35;AF=0.500;AN
48775	chrY	28817482	.	A	T	139506.72	my_snp_filter	AC=35;AF=0.500;AN
48776	chrY	28817492	.	T	A	139730.53	my_snp_filter	AC=34;AF=0.486;AN
48777	chrY	28817494	.	A	T	110637.77	PASS	AC=31;AF=0.443;AN=70;Base
48778	chrY	28817531	.	G	T	26807.50	my_snp_filter	AC=25;AF=0.357;AN
48779	chrY	28817559	.	T	G	1025504.86	PASS	AC=70;AF=1.00;AN=70;BaseQ
48780	chrY	28817561	.	T	G	12730.85	my_snp_filter	AC=8;AF=0.114;AN=
48781	chrY	28817587	.	C	T	8674.34	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48782	chrY	28817594	.	C	T	103839.72	PASS	AC=35;AF=0.500;AN=70;Base
48783	chrY	28817599	.	G	C	4490.21	my_snp_filter	AC=12;AF=0.171;AN=70;Base
48784	chrY	28817611	.	A	C	2070.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48785	chrY	28817612	.	T	C	9764.92	my_snp_filter	AC=17;AF=0.243;AN=70;Base
48786	chrY	28817614	.	C	G	787	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48787	chrY	28817629	.	C	T	1505.14	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48788	chrY	28817630	.	A	T	765.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48789	chrY	28817636	.	G	A	542587.72	PASS	AC=35;AF=0.500;AN=70;Base
48790	chrY	28817702	.	T	A	167.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48791	chrY	28817703	.	C	G	56938.76	PASS	AC=28;AF=0.400;AN=70;Base
48792	chrY	28817739	.	G	T	111.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

48793	chrY	28817742	.	C	T	302.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48794	chrY	28817743	.	G	A	239.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48795	chrY	28817812	.	C	A	55546.84	my_snp_filter	AC=34;AF=0.486;AN
48796	chrY	28817842	.	G	T	23536.98	my_snp_filter	AC=20;AF=0.286;AN
48797	chrY	28817856	.	A	G	1105.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48798	chrY	28817873	.	A	C	462.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48799	chrY	28817892	.	G	A	998.16	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48800	chrY	28817910	.	C	A	27273.21	my_snp_filter	AC=31;AF=0.443;AN
48801	chrY	28817916	.	G	T	370.92	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48802	chrY	28817936	.	G	T	28840.21	my_snp_filter	AC=33;AF=0.471;AN
48803	chrY	28817939	.	G	T	49509.66	my_snp_filter	AC=27;AF=0.386;AN
48804	chrY	28817981	.	C	G	433.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48805	chrY	28817992	.	G	C	345.73	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48806	chrY	28818012	.	G	C	78.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48807	chrY	28818057	.	T	G	182091.86	my_snp_filter	AC=70;AF=1.00;AN=
48808	chrY	28818100	.	T	A	285.94	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
48809	chrY	28818131	.	A	G	18421.78	my_snp_filter	AC=32;AF=0.615;AN
48810	chrY	28818135	.	C	T	28310.89	my_snp_filter	AC=52;AF=1.00;AN=
48811	chrY	28818139	.	G	A	2856.09	my_snp_filter	AC=17;AF=0.304;AN=56;Base
48812	chrY	28818170	.	T	A	1747.83	my_snp_filter	AC=12;AF=0.231;AN=52;Base
48813	chrY	28818177	.	G	C	62.47	my_snp_filter	AC=2;AF=0.043;AN=46;BaseQ
48814	chrY	28818197	.	G	T	219.84	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
48815	chrY	28818207	.	G	T	1036.71	my_snp_filter	AC=7;AF=0.318;AN=22;BaseQ
48816	chrY	28818212	.	G	T	885.05	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
48817	chrY	28818224	.	G	A	430.94	my_snp_filter	AC=5;AF=0.357;AN=14;BaseQ
48818	chrY	28818227	.	G	A	45.19	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
48819	chrY	28818236	.	C	G	134.19	PASS	AC=3;AF=0.250;AN=12;BaseQRankSum=
48820	chrY	28818237	.	A	G,T	691.84	my_snp_filter	AC=4,3;AF=0.333,0.250;AN=
48821	chrY	28818260	.	T	C	39.08	my_snp_filter	AC=1;AF=0.250;AN=4;BaseQR
48822	chrY	28818262	.	A	G	719.24	my_snp_filter	AC=6;AF=1.00;AN=6;DP=621;
48823	chrY	28818284	.	A	G	179.15	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
48824	chrY	28818295	.	C	G	2281.37	my_snp_filter	AC=12;AF=0.261;AN=46;Base
48825	chrY	28818326	.	A	T	205.15	my_snp_filter	AC=3;AF=0.088;AN=34;BaseQ
48826	chrY	28818341	.	G	A	318.60	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
48827	chrY	28818349	.	T	A	45.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48828	chrY	28818362	.	A	G	3763.44	my_snp_filter	AC=32;AF=0.500;AN=64;Base
48829	chrY	28818367	.	A	T	63.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48830	chrY	28818373	.	A	G	2461.30	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
48831	chrY	28818403	.	T	G	357.47	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48832	chrY	28818407	.	C	A	4556.63	my_snp_filter	AC=21;AF=0.339;AN=62;Base
48833	chrY	28818413	.	A	T	4442.82	my_snp_filter	AC=18;AF=0.310;AN=58;Base
48834	chrY	28818440	.	T	G	734.22	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48835	chrY	28818441	.	C	A	628.51	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48836	chrY	28818442	.	A	C	124.03	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
48837	chrY	28818453	.	A	C	186.57	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48838	chrY	28818465	.	T	C	319.11	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
48839	chrY	28818475	.	T	G	203	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
48840	chrY	28818550	.	G	T	978.80	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
48841	chrY	28818553	.	C	T	2109.64	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48842	chrY	28818558	.	A	T	3122.24	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
48843	chrY	28818564	.	G	A	3519.58	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48844	chrY	28818578	.	T	A	103.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48845	chrY	28818598	.	T	C	474.80	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
48846	chrY	28818635	.	A	T	213.28	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48847	chrY	28818669	.	C	A	166.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
48848	chrY	28818677	.	G	C	9204.28	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
48849	chrY	28818693	.	T	G	4279.72	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
48850	chrY	28818720	.	A	G	106.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48851	chrY	28818732	.	G	A	1587.39	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
48852	chrY	28818733	.	G	C	581.29	my_snp_filter	AC=13;AF=0.186;AN=70;Base
48853	chrY	28818735	.	G	C	85.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48854	chrY	28818740	.	G	T	1436.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
48855	chrY	28818745	.	A	C	12271.36	PASS	AC=25;AF=0.357;AN=70;Base
48856	chrY	28818772	.	A	T	2314.64	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
48857	chrY	28818784	.	T	A	2960.78	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
48858	chrY	28818803	.	T	G	1360.04	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
48859	chrY	28818842	.	G	T	1087.68	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48860	chrY	28818843	.	G	T	1087.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
48861	chrY	28818849	.	C	T	60.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48862	chrY	28818850	.	G	T	34.22	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48863	chrY	28818851	.	T	A	33.74	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48864	chrY	28818852	.	G	A,T	473.84	my_snp_filter	AC=4,3;AF=0.057,0.043;AN=
48865	chrY	28818867	.	G	A	65.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48866	chrY	28818981	.	T	A	353.34	my_snp_filter	AC=2;AF=0.056;AN=36;BaseQ
48867	chrY	28818991	.	T	C	4944.40	my_snp_filter	AC=8;AF=0.211;AN=38;BaseQ
48868	chrY	28819013	.	T	G	3547.60	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ

48869	chrY	28819016	.	G	T	2490.60	my_snp_filter	AC=8;AF=0.308;AN=26;BaseQ
48870	chrY	28819056	.	T	C	1195.23	my_snp_filter	AC=22;AF=0.500;AN=44;Base
48871	chrY	28819063	.	G	A	7715.32	my_snp_filter	AC=37;AF=0.804;AN=46;Base
48872	chrY	28819115	.	T	C	173.72	my_snp_filter	AC=4;AF=0.059;AN=68;DP=63
48873	chrY	28819135	.	T	A	7180.40	my_snp_filter	AC=53;AF=0.883;AN=60;Base
48874	chrY	28819146	.	C	A	95.53	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
48875	chrY	28819152	.	A	G	907.51	my_snp_filter	AC=6;AF=0.091;AN=66;BaseQ
48876	chrY	28819159	.	A	T	1130.94	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
48877	chrY	28819162	.	A	T	4618.30	my_snp_filter	AC=34;AF=0.895;AN=38;Base
48878	chrY	28819163	.	G	A	6138.27	my_snp_filter	AC=42;AF=1.00;AN=42;BaseQ
48879	chrY	28819166	.	A	C	746.88	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
48880	chrY	28819175	.	T	G,C	4826.84	my_snp_filter	AC=34,5;AF=0.810,0.119;AN
48881	chrY	28819176	.	G	C	125.58	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
48882	chrY	28819189	.	T	A	135.58	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
48883	chrY	28819190	.	T	G	138.79	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
48884	chrY	28819198	.	A	G,*	1995.44	my_snp_filter	AC=21,1;AF=0.700,0.033;AN
48885	chrY	28819200	.	C	A	1764.07	my_snp_filter	AC=20;AF=0.714;AN=28;Base
48886	chrY	28819205	.	G	T	427.73	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
48887	chrY	28819210	.	G	C	1322.52	my_snp_filter	AC=12;AF=0.750;AN=16;Base
48888	chrY	28819214	.	T	A	887.57	my_snp_filter	AC=11;AF=0.786;AN=14;Base
48889	chrY	28819238	.	A	G	65.33	my_snp_filter	AC=2;AF=0.333;AN=6;DP=17;
48890	chrY	58819717	.	A	G	22674.82	my_snp_filter	AC=11;AF=0.500;AN=18;
48891	chrY	58819787	.	A	G	166.67	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
48892	chrY	58819795	.	C	T	277.50	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
48893	chrY	58819801	.	C	T	302.37	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
48894	chrY	58819868	.	A	G	43.96	my_snp_filter	AC=1;AF=0.063;AN=16;BaseQ
48895	chrY	58819898	.	G	C	80.24	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
48896	chrY	58819983	.	A	G	1001.20	my_snp_filter	AC=4;AF=0.333;AN=12;BaseQ
48897	chrY	58820079	.	A	C	3172.82	PASS	AC=12;AF=0.375;AN=32;BaseQRankSum
48898	chrY	58820106	.	C	T	3886.49	my_snp_filter	AC=13;AF=0.406;AN=32;Base
48899	chrY	58820185	.	G	T	1466.45	my_snp_filter	AC=4;AF=0.500;AN=8;BaseQR
48900	chrY	58820187	.	A	C	1466.45	my_snp_filter	AC=4;AF=0.400;AN=10;BaseQ
48901	chrY	58820214	.	C	A	907.46	my_snp_filter	AC=4;AF=0.500;AN=8;BaseQR
48902	chrY	58820252	.	T	A	444.23	my_snp_filter	AC=4;AF=0.667;AN=6;BaseQR
48903	chrY	58820253	.	G	T	444.23	my_snp_filter	AC=4;AF=0.667;AN=6;BaseQR
48904	chrY	58820272	.	C	T	32.32	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
48905	chrY	58820337	.	A	C	221.17	my_snp_filter	AC=4;AF=1.00;AN=4;DP=17;F
48906	chrY	58820950	.	C	A	60.11	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
48907	chrY	58820951	.	C	A	60.11	my_snp_filter	AC=1;AF=0.167;AN=6;BaseQR
48908	chrY	58821321	.	C	G	257.12	my_snp_filter	AC=2;AF=0.333;AN=6;BaseQR
48909	chrY	58824987	.	C	G	58.57	PASS	AC=2;AF=0.200;AN=10;DP=9;FS=0.000
48910	chrY	58825004	.	T	C	58	PASS	AC=2;AF=0.167;AN=12;DP=12;FS=0.00
48911	chrY	58825021	.	C	A	58.01	PASS	AC=2;AF=0.167;AN=12;DP=11;FS=0.00
48912	chrY	58825044	.	T	C	58.63	PASS	AC=2;AF=0.200;AN=10;DP=9;FS=0.000
48913	chrY	58827243	.	C	T	671.26	my_snp_filter	AC=10;AF=1.00;AN=10;DP=48
48914	chrY	58827271	.	A	G	1376.92	PASS	AC=7;AF=0.117;AN=60;BaseQRankSum=
48915	chrY	58827289	.	C	G	128	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
48916	chrY	58827389	.	T	G,A	10167.76	my_snp_filter	AC=2,25;AF=0.029,0.029
48917	chrY	58827390	.	G	T	1009.04	my_snp_filter	AC=16;AF=0.229;AN=70;Base
48918	chrY	58827400	.	A	G	33.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
48919	chrY	58829308	.	C	T	58.87	PASS	AC=2;AF=0.200;AN=10;DP=13;FS=0.00
48920	chrY	58829317	.	T	G	57.69	PASS	AC=2;AF=0.143;AN=14;DP=12;FS=0.00
48921	chrY	58833894	.	A	T	1455.21	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
48922	chrY	58833975	.	T	C	101.40	PASS	AC=3;AF=0.054;AN=56;BaseQRankSum=
48923	chrY	58833986	.	C	T	44.17	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
48924	chrY	58833988	.	C	G	138.77	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
48925	chrY	58833997	.	C	G	129.57	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
48926	chrY	58834002	.	C	G	41506.85	my_snp_filter	AC=19;AF=0.339;AN=19
48927	chrY	58834007	.	C	G	26516.94	my_snp_filter	AC=11;AF=0.196;AN=11
48928	chrY	58834017	.	C	G	9047.25	my_snp_filter	AC=7;AF=0.135;AN=52;BaseQ
48929	chrY	58834027	.	G	C	39	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
48930	chrY	58834036	.	T	A	45.45	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
48931	chrY	58834038	.	C	T	45.55	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
48932	chrY	58834061	.	C	T	27331.38	my_snp_filter	AC=10;AF=0.278;AN=10
48933	chrY	58834115	.	T	C	481.06	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
48934	chrY	58836274	.	T	G	31.27	my_snp_filter	AC=2;AF=0.200;AN=10;DP=11
48935	chrY	58836708	.	A	T	36.32	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
48936	chrY	58836868	.	A	T	33.91	PASS	AC=2;AF=0.077;AN=26;DP=24;FS=0.00
48937	chrY	58836906	.	G	T	50.93	PASS	AC=4;AF=0.167;AN=24;DP=28;FS=0.00
48938	chrY	58838630	.	G	T	96.84	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
48939	chrY	58838631	.	A	T	90.49	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
48940	chrY	58838634	.	G	T	167.08	PASS	AC=1;AF=0.050;AN=20;BaseQRankSum=
48941	chrY	58838710	.	C	A	92.04	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
48942	chrY	58838721	.	A	T	92.18	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
48943	chrY	58840792	.	C	A	876.86	my_snp_filter	AC=2;AF=1.00;AN=2;DP=53;F
48944	chrY	58840834	.	G	T,*	1495.24	my_snp_filter	AC=5,2;AF=0.500,0.200;AN=

48945	chrY	58840857	.	G	A	1552.49	my_snp_filter	AC=8;AF=1.00;AN=8;DP=668;
48946	chrY	58840861	.	C	T	1167.94	my_snp_filter	AC=2;AF=0.040;AN=50;DP=66
48947	chrY	58840885	.	C	T	95.57	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
48948	chrY	58840890	.	C	T	945.27	my_snp_filter	AC=2;AF=0.071;AN=28;DP=51
48949	chrY	58840930	.	T	G	130.46	PASS	AC=5;AF=0.179;AN=28;BaseQRankSum=
48950	chrY	58840945	.	C	A	52.12	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
48951	chrY	58842671	.	G	A	9185.21	my_snp_filter	AC=9;AF=0.450;AN=20;BaseQ
48952	chrY	58842744	.	T	G	368.02	my_snp_filter	AC=1;AF=0.042;AN=24;BaseQ
48953	chrY	58843069	.	C	G	51.52	PASS	AC=2;AF=0.063;AN=32;DP=52;FS=0.00
48954	chrY	58843076	.	G	A	52.02	PASS	AC=2;AF=0.071;AN=28;DP=50;FS=0.00
48955	chrY	58843077	.	T	C	46.04	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
48956	chrY	58843097	.	G	T	221.48	PASS	AC=4;AF=0.250;AN=16;BaseQRankSum=
48957	chrY	58843310	.	T	G	123.86	PASS	AC=4;AF=0.182;AN=22;DP=30;FS=0.00
48958	chrY	58843332	.	C	G	148.94	PASS	AC=4;AF=0.182;AN=22;DP=36;FS=0.00
48959	chrY	58843384	.	T	G	213.95	PASS	AC=2;AF=0.100;AN=20;DP=35;FS=0.00
48960	chrY	58843385	.	G	A	227.15	PASS	AC=2;AF=0.100;AN=20;DP=35;FS=0.00
48961	chrY	58843388	.	G	T	227.30	PASS	AC=2;AF=0.100;AN=20;DP=35;FS=0.00
48962	chrY	58843421	.	A	G	43.81	PASS	AC=2;AF=0.250;AN=8;DP=7;FS=0.000;
48963	chrY	58848073	.	A	C	2136.27	my_snp_filter	AC=13;AF=0.650;AN=20;BaseQ
48964	chrY	58848116	.	A	T	117.76	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
48965	chrY	58848138	.	A	C	149.46	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
48966	chrY	58848152	.	T	A	89.17	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
48967	chrY	58848196	.	A	G	82.12	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
48968	chrY	58848201	.	A	G	85.41	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
48969	chrY	58848206	.	A	G	45.02	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
48970	chrY	58848209	.	G	C	49.21	PASS	AC=1;AF=0.019;AN=52;BaseQRankSum=
48971	chrY	58854621	.	T	C	3401.15	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
48972	chrY	58854637	.	C	G	283.89	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
48973	chrY	58854638	.	G	C	283.89	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
48974	chrY	58854641	.	G	T	288.89	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
48975	chrY	58855291	.	T	C	44.06	PASS	AC=2;AF=0.111;AN=18;DP=169;FS=0.0
48976	chrY	58856038	.	G	A	188.93	my_snp_filter	AC=2;AF=0.100;AN=20;DP=56
48977	chrY	58856075	.	T	C	66.55	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
48978	chrY	58856082	.	G	C	54.39	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
48979	chrY	58856083	.	A	G	48.80	PASS	AC=2;AF=0.045;AN=44;DP=1304;FS=0.
48980	chrY	58856089	.	C	A	96.28	my_snp_filter	AC=2;AF=0.045;AN=44;BaseQ
48981	chrY	58856090	.	G	C	132.99	my_snp_filter	AC=4;AF=0.095;AN=42;BaseQ
48982	chrY	58856098	.	T	A	63.54	PASS	AC=2;AF=0.050;AN=40;DP=1185;FS=0.
48983	chrY	58856100	.	T	A	106.17	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
48984	chrY	58856104	.	C	T	42.82	PASS	AC=1;AF=0.026;AN=38;BaseQRankSum=
48985	chrY	58856105	.	G	A	49.17	PASS	AC=2;AF=0.053;AN=38;DP=815;FS=0.0
48986	chrY	58856125	.	T	C	331.78	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
48987	chrY	58856126	.	A	C	307.87	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
48988	chrY	58856130	.	T	C	183.29	my_snp_filter	AC=2;AF=0.063;AN=32;DP=23
48989	chrY	58856136	.	C	A	103.78	my_snp_filter	AC=2;AF=0.077;AN=26;DP=20
48990	chrY	58856396	.	G	C	61.28	my_snp_filter	AC=2;AF=0.050;AN=40;BaseQ
48991	chrY	58856410	.	C	T	46.44	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
48992	chrY	58856669	.	T	A	68.37	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
48993	chrY	58856696	.	G	C	63.73	my_snp_filter	AC=3;AF=0.214;AN=14;BaseQ
48994	chrY	58856706	.	G	C	108.33	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
48995	chrY	58856711	.	A	G	54.32	my_snp_filter	AC=3;AF=0.188;AN=16;BaseQ
48996	chrY	58856957	.	G	C	39.97	PASS	AC=1;AF=0.500;AN=2;BaseQRankSum=-
48997	chrY	58857352	.	G	T	52.71	PASS	AC=2;AF=0.083;AN=24;DP=124;FS=0.0
48998	chrY	58857368	.	G	A	60.86	PASS	AC=2;AF=0.250;AN=8;DP=8;FS=0.000;
48999	chrY	58857389	.	G	T	72.51	PASS	AC=4;AF=1.00;AN=4;DP=5;FS=0.000;M
49000	chrY	58858870	.	T	C	1418.09	my_snp_filter	AC=3;AF=0.100;AN=30;BaseQ
49001	chrY	58858916	.	G	C	67.08	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
49002	chrY	58858927	.	C	T	2303.91	my_snp_filter	AC=7;AF=0.219;AN=32;BaseQ
49003	chrY	58858956	.	C	T	38.37	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49004	chrY	58862319	.	C	A	142.50	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQ
49005	chrY	58862366	.	T	G	8151.34	my_snp_filter	AC=11;AF=0.550;AN=20;BaseQ
49006	chrY	58862633	.	C	G	57.07	my_snp_filter	AC=2;AF=0.100;AN=20;DP=82
49007	chrY	58862655	.	G	A	499.99	my_snp_filter	AC=8;AF=0.571;AN=14;BaseQ
49008	chrY	58862678	.	G	C	315.60	my_snp_filter	AC=10;AF=0.185;AN=54;BaseQ
49009	chrY	58862685	.	A	G	235.73	my_snp_filter	AC=5;AF=0.089;AN=56;BaseQ
49010	chrY	58862713	.	C	A	279.50	PASS	AC=8;AF=0.143;AN=56;BaseQRankSum=
49011	chrY	58862748	.	C	A	257.58	PASS	AC=4;AF=0.087;AN=46;BaseQRankSum=
49012	chrY	58862754	.	C	A	90.12	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
49013	chrY	58862760	.	C	G,A	1268.84	PASS	AC=9,7;AF=0.375,0.292;AN=24;BaseQ
49014	chrY	58862994	.	G	C	162.93	PASS	AC=3;AF=0.125;AN=24;BaseQRankSum=
49015	chrY	58862998	.	T	A	182.31	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
49016	chrY	58862999	.	G	T	173.17	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
49017	chrY	58863010	.	T	C	86.52	PASS	AC=4;AF=0.125;AN=32;DP=82;FS=0.00
49018	chrY	58863023	.	A	T	174.91	PASS	AC=3;AF=0.100;AN=30;BaseQRankSum=
49019	chrY	58863062	.	C	G	73.15	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
49020	chrY	58863077	.	C	G	49.81	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=

49021	chrY	58866066	.	T	A	47.04	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
49022	chrY	58866078	.	C	A	250.59	my_snp_filter	AC=3;AF=0.060;AN=50;BaseQ
49023	chrY	58866088	.	C	A,T	716.61	my_snp_filter	AC=3,1;AF=0.063,0.021;AN=
49024	chrY	58866099	.	A	C	398.65	my_snp_filter	AC=3;AF=0.065;AN=46;BaseQ
49025	chrY	58866115	.	C	T	62.08	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
49026	chrY	58866149	.	A	G	173.06	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
49027	chrY	58866702	.	C	A	141.51	PASS	AC=4;AF=0.250;AN=16;DP=13;FS=0.00
49028	chrY	58866712	.	C	T	141.51	PASS	AC=4;AF=0.250;AN=16;DP=13;FS=0.00
49029	chrY	58866750	.	T	C	149.71	my_snp_filter	AC=5;AF=0.208;AN=24;BaseQ
49030	chrY	58866781	.	C	G	259.02	my_snp_filter	AC=4;AF=0.200;AN=20;BaseQ
49031	chrY	58866802	.	G	A	203.83	PASS	AC=3;AF=0.188;AN=16;BaseQRankSum=
49032	chrY	58866826	.	T	C	98.08	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
49033	chrY	58872552	.	A	G	476.15	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
49034	chrY	58876460	.	T	C	770.87	my_snp_filter	AC=6;AF=1.00;AN=6;DP=32;F
49035	chrY	58876589	.	C	G	1575.56	my_snp_filter	AC=5;AF=0.625;AN=8;BaseQR
49036	chrY	58876596	.	G	A	1801.87	my_snp_filter	AC=6;AF=1.00;AN=6;DP=49;F
49037	chrY	58876789	.	G	C	47.04	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
49038	chrY	58880048	.	C	A	63	PASS	AC=2;AF=0.333;AN=6;DP=4;FS=0.000;
49039	chrY	58880049	.	T	C	67.84	PASS	AC=2;AF=1.00;AN=2;DP=4;FS=0.000;M
49040	chrY	58880388	.	C	A	103.26	my_snp_filter	AC=4;AF=0.286;AN=14;DP=15
49041	chrY	58883594	.	A	T	113.96	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
49042	chrY	58883603	.	A	C,T	594845.02	my_snp_filter	AC=14,25;AF=0.259
49043	chrY	58883610	.	C	T	34.47	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49044	chrY	58883612	.	G	C	34.63	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49045	chrY	58883622	.	T	C	110.44	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49046	chrY	58883625	.	C	T	146.66	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
49047	chrY	58883692	.	A	C	14466.57	my_snp_filter	AC=9;AF=0.141;AN=
49048	chrY	58883724	.	G	A	224394.19	my_snp_filter	AC=13;AF=0.241;AN=
49049	chrY	58883744	.	A	T	45.10	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
49050	chrY	58883773	.	C	T	89.17	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
49051	chrY	58883784	.	T	A	82.56	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
49052	chrY	58883840	.	A	G	242.87	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
49053	chrY	58883850	.	T	C	329.60	my_snp_filter	AC=6;AF=0.107;AN=56;BaseQ
49054	chrY	58883867	.	C	G	196.81	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
49055	chrY	58883868	.	C	A	38.59	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
49056	chrY	58883878	.	C	T	32.68	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49057	chrY	58883882	.	C	A	44.69	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49058	chrY	58883883	.	C	A	2731.65	my_snp_filter	AC=7;AF=0.130;AN=54;BaseQ
49059	chrY	58883887	.	G	C	29676.83	my_snp_filter	AC=11;AF=0.204;AN=
49060	chrY	58883892	.	C	G,A	8110.18	my_snp_filter	AC=7,3;AF=0.130,0.056;AN=
49061	chrY	58883893	.	C	A	3252.99	my_snp_filter	AC=5;AF=0.093;AN=54;BaseQ
49062	chrY	58883917	.	G	A	605.32	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
49063	chrY	58883920	.	C	G	572.04	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
49064	chrY	58883940	.	C	T	2985.15	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
49065	chrY	58883942	.	C	T	78.90	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
49066	chrY	58883950	.	G	T	108.82	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
49067	chrY	58883954	.	A	G	143.95	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
49068	chrY	58883955	.	T	A	214.60	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
49069	chrY	58884213	.	G	C	152.05	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
49070	chrY	58884221	.	T	C	763.86	PASS	AC=14;AF=0.333;AN=42;BaseQRankSum=
49071	chrY	58884231	.	G	T	45.23	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
49072	chrY	58884251	.	C	T	1029.53	PASS	AC=21;AF=0.500;AN=42;BaseQRankSum=
49073	chrY	58884622	.	A	T	350.12	my_snp_filter	AC=9;AF=0.281;AN=32;BaseQ
49074	chrY	58884631	.	T	C	331.52	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
49075	chrY	58884655	.	T	A	147.13	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
49076	chrY	58884866	.	G	A	70.82	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
49077	chrY	58884883	.	T	A	50.38	PASS	AC=2;AF=0.050;AN=40;DP=499;FS=0.0
49078	chrY	58884885	.	A	C	5436.43	my_snp_filter	AC=9;AF=0.225;AN=40;BaseQ
49079	chrY	58884906	.	A	T	6043.68	my_snp_filter	AC=13;AF=0.283;AN=46;BaseQ
49080	chrY	58884932	.	A	G	17731.10	my_snp_filter	AC=16;AF=0.421;AN=
49081	chrY	58884940	.	G	C	9932.94	my_snp_filter	AC=18;AF=0.429;AN=42;BaseQ
49082	chrY	58885141	.	C	T	54.43	PASS	AC=2;AF=0.091;AN=22;DP=33;FS=0.00
49083	chrY	58885152	.	C	A	53.50	PASS	AC=2;AF=0.100;AN=20;DP=36;FS=0.00
49084	chrY	58885163	.	A	C	114.64	PASS	AC=3;AF=0.167;AN=18;BaseQRankSum=
49085	chrY	58890128	.	T	C	117.65	PASS	AC=2;AF=0.067;AN=30;BaseQRankSum=
49086	chrY	58890143	.	T	C	45.87	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
49087	chrY	58890174	.	T	C	125.66	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
49088	chrY	58890180	.	A	G	129.07	my_snp_filter	AC=2;AF=0.111;AN=18;BaseQ
49089	chrY	58890852	.	G	A	475.09	my_snp_filter	AC=4;AF=0.286;AN=14;BaseQ
49090	chrY	58890917	.	T	A	335.62	my_snp_filter	AC=2;AF=0.071;AN=28;BaseQ
49091	chrY	58890978	.	T	C	5372.37	my_snp_filter	AC=5;AF=0.192;AN=26;BaseQ
49092	chrY	58891038	.	T	C	48.26	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49093	chrY	58891040	.	C	G	102.19	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49094	chrY	58891043	.	T	C	102.23	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
49095	chrY	58891052	.	A	G	209.93	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
49096	chrY	58891068	.	C	T	237.30	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ

49097	chrY	58891080	.	A	C	250.67	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
49098	chrY	58891088	.	C	T	258.06	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
49099	chrY	58891091	.	T	C	134.58	my_snp_filter	AC=1;AF=0.071;AN=14;BaseQ
49100	chrY	58891094	.	C	T	139.66	my_snp_filter	AC=1;AF=0.125;AN=8;BaseQR
49101	chrY	58891095	.	T	C	139.07	PASS	AC=1;AF=0.100;AN=10;DP=55;FS=0.00
49102	chrY	58891342	.	A	G	58.03	PASS	AC=4;AF=0.250;AN=16;DP=19;FS=0.00
49103	chrY	58891399	.	C	T	65.41	my_snp_filter	AC=2;AF=0.500;AN=4;DP=4;F
49104	chrY	58891402	.	A	G	63.36	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
49105	chrY	58891406	.	C	T	63.36	my_snp_filter	AC=2;AF=0.333;AN=6;DP=4;F
49106	chrY	58893627	.	A	T	628.11	my_snp_filter	AC=11;AF=0.917;AN=12;Base
49107	chrY	58893666	.	G	A	42.13	PASS	AC=4;AF=0.080;AN=50;DP=211;FS=0.0
49108	chrY	58893690	.	C	G	71.19	my_snp_filter	AC=5;AF=0.119;AN=42;BaseQ
49109	chrY	58903907	.	G	C	61.22	my_snp_filter	AC=2;AF=0.250;AN=8;DP=13;
49110	chrY	58903922	.	C	A	59.90	my_snp_filter	AC=2;AF=0.167;AN=12;DP=10
49111	chrY	58905188	.	T	A	350.48	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49112	chrY	58905191	.	G	C	1067.87	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
49113	chrY	58905259	.	A	C	30.21	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
49114	chrY	58905268	.	T	C	31.34	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49115	chrY	58905279	.	T	C	43.99	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49116	chrY	58905297	.	A	T	241.94	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
49117	chrY	58905306	.	C	A	27950.70	my_snp_filter	AC=13;AF=0.191;AN
49118	chrY	58905316	.	C	A	145.10	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49119	chrY	58906772	.	C	T	102	PASS	AC=4;AF=0.200;AN=20;DP=31;FS=0.00
49120	chrY	58906775	.	A	G	53.12	PASS	AC=2;AF=0.083;AN=24;DP=31;FS=0.00
49121	chrY	58908833	.	A	C	260.70	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
49122	chrY	58908843	.	C	A	144.11	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
49123	chrY	58908845	.	C	T	257.63	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49124	chrY	58908848	.	T	C	1469.51	my_snp_filter	AC=6;AF=0.429;AN=14;BaseQ
49125	chrY	58908853	.	T	C	921.15	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
49126	chrY	58908899	.	C	G	94.56	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
49127	chrY	58908915	.	C	T	177.73	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
49128	chrY	58908921	.	A	G	153.56	my_snp_filter	AC=2;AF=0.077;AN=26;BaseQ
49129	chrY	58908930	.	C	A	391.23	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQ
49130	chrY	58908943	.	T	G	770.19	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
49131	chrY	58908955	.	G	A	349.45	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
49132	chrY	58908961	.	A	G	180.23	my_snp_filter	AC=3;AF=0.167;AN=18;BaseQ
49133	chrY	58910884	.	G	A	105.32	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
49134	chrY	58910986	.	T	A	131.17	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
49135	chrY	58912431	.	T	C	231.70	my_snp_filter	AC=2;AF=0.167;AN=12;DP=81
49136	chrY	58912436	.	T	C	97.70	my_snp_filter	AC=6;AF=0.333;AN=18;BaseQ
49137	chrY	58912654	.	A	G	70.71	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
49138	chrY	58912662	.	C	A	41.59	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
49139	chrY	58912666	.	T	G	41.59	my_snp_filter	AC=1;AF=0.083;AN=12;BaseQ
49140	chrY	58912667	.	G	C	236.69	my_snp_filter	AC=2;AF=0.200;AN=10;BaseQ
49141	chrY	58912718	.	A	G	611.28	my_snp_filter	AC=12;AF=1.00;AN=12;DP=26
49142	chrY	58912841	.	C	T	814.34	my_snp_filter	AC=15;AF=0.750;AN=20;Base
49143	chrY	58912878	.	G	C	284.58	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
49144	chrY	58912883	.	C	T	111.99	my_snp_filter	AC=1;AF=0.024;AN=42;BaseQ
49145	chrY	58912893	.	T	C	226.04	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
49146	chrY	58912895	.	T	A	108.99	my_snp_filter	AC=6;AF=0.143;AN=42;BaseQ
49147	chrY	58912897	.	C	T	54.82	my_snp_filter	AC=2;AF=0.071;AN=28;DP=23
49148	chrY	58912898	.	C	A	132.24	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
49149	chrY	58912907	.	G	C	161.31	my_snp_filter	AC=5;AF=0.313;AN=16;BaseQ
49150	chrY	58912909	.	A	C	48.72	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49151	chrY	58912910	.	T	A	162.38	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
49152	chrY	58912945	.	G	T	66.29	my_snp_filter	AC=3;AF=0.750;AN=4;BaseQR
49153	chrY	58916072	.	G	C	53.70	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
49154	chrY	58916136	.	T	C	417.44	my_snp_filter	AC=2;AF=0.200;AN=10;BaseQ
49155	chrY	58916153	.	C	A	432.22	my_snp_filter	AC=2;AF=0.250;AN=8;BaseQR
49156	chrY	58916176	.	T	C	448.22	my_snp_filter	AC=2;AF=0.333;AN=6;BaseQR
49157	chrY	58916184	.	T	G,*	582.74	my_snp_filter	AC=1,1;AF=0.167,0.167;AN=
49158	chrY	58916324	.	T	C	223.66	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
49159	chrY	58916336	.	C	G	431.46	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
49160	chrY	58916340	.	T	C	386.46	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
49161	chrY	58916343	.	T	C	407.46	my_snp_filter	AC=3;AF=0.115;AN=26;BaseQ
49162	chrY	58916353	.	T	A	424.94	PASS	AC=3;AF=0.107;AN=28;BaseQRankSum=
49163	chrY	58916367	.	C	T	252.12	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
49164	chrY	58916377	.	G	C	44.46	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
49165	chrY	58916381	.	C	T	183.52	my_snp_filter	AC=8;AF=0.286;AN=28;BaseQ
49166	chrY	58916422	.	G	A	33.55	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQ
49167	chrY	58916461	.	C	T	85.48	my_snp_filter	AC=1;AF=0.100;AN=10;BaseQ
49168	chrY	58916504	.	G	T	160.90	my_snp_filter	AC=2;AF=1.00;AN=2;DP=12;F
49169	chrY	58916908	.	A	C	71.75	my_snp_filter	AC=2;AF=0.250;AN=8;BaseQR
49170	chrY	58967742	.	C	T	378.86	PASS	AC=1;AF=0.500;AN=2;BaseQRankSum=2
49171	chrY	58967813	.	A	G	11561.66	PASS	AC=3;AF=0.056;AN=54;BaseQ
49172	chrY	58967865	.	T	C	64270.22	PASS	AC=31;AF=0.674;AN=46;Base

49173	chrY	58967937	.	A	C	19060.67	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
49174	chrY	58967994	.	G	C	3320.05	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
49175	chrY	58968006	.	A	T	16396.65	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
49176	chrY	58968013	.	T	C	64849.73	PASS	AC=51;AF=0.729;AN=70;BaseQRankSum=
49177	chrY	58968061	.	A	T	2292.76	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
49178	chrY	58968064	.	C	T	4976.96	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
49179	chrY	58968074	.	G	A	41923.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49180	chrY	58968109	.	A	T	1109.73	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
49181	chrY	58968129	.	G	A	18475.21	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
49182	chrY	58968384	.	A	T	520.12	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
49183	chrY	58968466	.	C	T	27778.78	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
49184	chrY	58968504	.	T	A	97420.17	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
49185	chrY	58968535	.	C	T	91.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49186	chrY	58968546	.	C	T	49803.73	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49187	chrY	58968570	.	C	A	27452.17	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
49188	chrY	58968589	.	C	A	123893.90	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
49189	chrY	58968625	.	G	A	2085.49	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
49190	chrY	58968660	.	G	T	112368.15	PASS	AC=44;AF=0.629;AN=70;BaseQRankSum=
49191	chrY	58968687	.	T	A	20105.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49192	chrY	58968689	.	T	G	103064.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
49193	chrY	58968724	.	T	C	89702.09	PASS	AC=41;AF=0.586;AN=70;BaseQRankSum=
49194	chrY	58968744	.	T	C	36.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49195	chrY	58968784	.	T	C	69325.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
49196	chrY	58968789	.	T	C	25360.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49197	chrY	58968816	.	T	G	76737.43	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
49198	chrY	58968874	.	T	C	434.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
49199	chrY	58968888	.	A	G	107783.52	PASS	AC=48;AF=0.686;AN=70;BaseQRankSum=
49200	chrY	58968913	.	A	G	569.22	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
49201	chrY	58968939	.	G	A	91433.81	PASS	AC=45;AF=0.643;AN=70;BaseQRankSum=
49202	chrY	58968949	.	C	T	135.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49203	chrY	58969085	.	A	G	63.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49204	chrY	58969089	.	T	C	13565.95	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
49205	chrY	58969118	.	A	G	47301.85	PASS	AC=24;AF=0.462;AN=52;BaseQRankSum=
49206	chrY	58969120	.	C	G	1699.54	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49207	chrY	58969121	.	T	G	1519.42	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49208	chrY	58969124	.	T	C	47771.60	PASS	AC=24;AF=0.444;AN=54;BaseQRankSum=
49209	chrY	58969133	.	G	A	16973.56	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
49210	chrY	58969145	.	T	G	42332.60	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
49211	chrY	58969146	.	C	T	41836.60	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum=
49212	chrY	58969186	.	T	C	289.90	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49213	chrY	58969294	.	G	T	82973.32	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
49214	chrY	58969307	.	A	T	954.75	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
49215	chrY	58969309	.	C	T	28723.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49216	chrY	58969322	.	A	C	660.11	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
49217	chrY	58969346	.	C	T	245.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49218	chrY	58969352	.	G	T	2130.11	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
49219	chrY	58969357	.	G	A	15567.33	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
49220	chrY	58969385	.	A	G	66172.50	PASS	AC=53;AF=0.757;AN=70;BaseQRankSum=
49221	chrY	58969409	.	T	A	25819.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49222	chrY	58969452	.	C	T,*	62812.52	PASS	AC=4,32;AF=0.057,0.457;AN=70;BaseQRankSum=
49223	chrY	58969644	.	G	C	125832.97	PASS	AC=46;AF=0.657;AN=70;BaseQRankSum=
49224	chrY	58969655	.	G	A	43772.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49225	chrY	58969664	.	C	T	607.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
49226	chrY	58969711	.	G	T	16611.85	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
49227	chrY	58969716	.	T	A	98.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49228	chrY	58969735	.	G	A	72687.71	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum=
49229	chrY	58969750	.	T	A	62684.22	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49230	chrY	58969803	.	T	C	4880.95	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
49231	chrY	58969833	.	C	T	15864.47	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
49232	chrY	58969846	.	C	G	77181.29	PASS	AC=39;AF=0.557;AN=70;BaseQRankSum=
49233	chrY	58969854	.	G	A	71857.93	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
49234	chrY	58969859	.	C	A	413.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49235	chrY	58969865	.	C	T	20732.20	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
49236	chrY	58969889	.	T	A	1733.59	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
49237	chrY	58969891	.	A	T	1728.49	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
49238	chrY	58969912	.	G	A	23666.40	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
49239	chrY	58969954	.	A	G	212.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
49240	chrY	58969977	.	T	C	35199.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49241	chrY	58969992	.	A	G	6896.51	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
49242	chrY	58970108	.	G	T	27498.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49243	chrY	58970175	.	A	T,*	44406	PASS	AC=16,21;AF=0.229,0.300;AN=70;BaseQRankSum=
49244	chrY	58970176	.	A	T,*	7174.70	PASS	AC=4,2;AF=0.200,0.100;AN=20;BaseQRankSum=
49245	chrY	58970180	.	A	G	3935.26	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
49246	chrY	58970194	.	A	C	56096.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49247	chrY	58970226	.	G	A	2566.09	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
49248	chrY	58970248	.	T	C	100453.81	PASS	AC=54;AF=0.771;AN=70;BaseQRankSum=

49249	chrY	58970300	.	G	A	76780.67	PASS	AC=50;AF=0.714;AN=70;BaseQRankSum=
49250	chrY	58970308	.	G	A	1951.47	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
49251	chrY	58970351	.	T	G	41733.77	PASS	AC=49;AF=0.700;AN=70;BaseQRankSum=
49252	chrY	58970395	.	A	G	2978.45	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
49253	chrY	58970406	.	T	G	65729.22	PASS	AC=45;AF=0.662;AN=68;BaseQRankSum=
49254	chrY	58970425	.	G	A	81.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
49255	chrY	58970429	.	T	C	17841.65	PASS	AC=30;AF=0.441;AN=68;BaseQRankSum=
49256	chrY	58970482	.	G	A	7877.20	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
49257	chrY	58970483	.	T	C	122271.65	PASS	AC=52;AF=0.743;AN=70;BaseQRankSum=
49258	chrY	58970491	.	A	T	9961.77	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
49259	chrY	58970507	.	T	A	883.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
49260	chrY	58970515	.	C	T	2859.82	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
49261	chrY	58970536	.	T	A	2960.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49262	chrY	58970542	.	A	G	41170.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49263	chrY	58970570	.	G	A	31393.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49264	chrY	58970576	.	G	T	301.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49265	chrY	58970609	.	C	T	286.95	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
49266	chrY	58970819	.	T	G	6339.32	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
49267	chrY	58970913	.	C	A	20748.11	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
49268	chrY	58970931	.	G	A	20904.54	PASS	AC=11;AF=0.458;AN=24;BaseQRankSum=
49269	chrY	58970942	.	G	A	8223.19	PASS	AC=6;AF=0.200;AN=30;BaseQRankSum=
49270	chrY	58970956	.	A	C	35542.02	PASS	AC=15;AF=0.536;AN=28;BaseQRankSum=
49271	chrY	58971026	.	T	C	16177.72	PASS	AC=13;AF=0.406;AN=32;BaseQRankSum=
49272	chrY	58971182	.	A	T	30507.25	PASS	AC=14;AF=0.700;AN=20;BaseQRankSum=
49273	chrY	58971261	.	A	G	1981.40	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
49274	chrY	58971268	.	T	C	49.73	PASS	AC=2;AF=0.050;AN=40;DP=1519;FS=0.0
49275	chrY	58971282	.	T	G	28820.14	PASS	AC=28;AF=0.824;AN=34;BaseQRankSum=
49276	chrY	58971298	.	T	A	6444.78	PASS	AC=8;AF=0.235;AN=34;BaseQRankSum=
49277	chrY	58971316	.	G	A	14564.18	PASS	AC=13;AF=0.433;AN=30;BaseQRankSum=
49278	chrY	58971360	.	G	A	15945.14	PASS	AC=11;AF=0.423;AN=26;BaseQRankSum=
49279	chrY	58971404	.	T	G	105.48	my_snp_filter	AC=4;AF=0.105;AN=38;BaseQRankSum=
49280	chrY	58971460	.	G	C	50.39	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQRankSum=
49281	chrY	58971564	.	T	A	26772.68	PASS	AC=16;AF=0.800;AN=20;BaseQRankSum=
49282	chrY	58971628	.	C	G	5398.12	PASS	AC=10;AF=0.357;AN=28;BaseQRankSum=
49283	chrY	58971672	.	C	T	15127.22	PASS	AC=11;AF=0.344;AN=32;BaseQRankSum=
49284	chrY	58971674	.	T	C	37414.25	PASS	AC=19;AF=0.731;AN=26;BaseQRankSum=
49285	chrY	58971788	.	C	T	205.33	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQRankSum=
49286	chrY	58971799	.	G	C	16380.97	PASS	AC=12;AF=0.429;AN=28;BaseQRankSum=
49287	chrY	58971913	.	G	A	29286.04	PASS	AC=13;AF=0.650;AN=20;BaseQRankSum=
49288	chrY	58971953	.	A	G	26004.98	PASS	AC=17;AF=0.405;AN=42;BaseQRankSum=
49289	chrY	58971975	.	T	G	23752.87	PASS	AC=11;AF=0.239;AN=46;BaseQRankSum=
49290	chrY	58971989	.	G	C	24739.20	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum=
49291	chrY	58972026	.	C	A	18351.10	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
49292	chrY	58972027	.	C	T	18308.69	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
49293	chrY	58972033	.	A	G	373.44	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQRankSum=
49294	chrY	58972058	.	A	C,*	2789.82	PASS	AC=2,2;AF=0.032,0.032;AN=62;BaseQRankSum=
49295	chrY	58972081	.	T	G,*	1536.77	PASS	AC=2,1;AF=0.053,0.026;AN=38;BaseQRankSum=
49296	chrY	58972082	.	C	A	10210.39	PASS	AC=20;AF=0.385;AN=52;BaseQRankSum=
49297	chrY	58972092	.	A	G	22776.68	PASS	AC=16;AF=0.381;AN=42;BaseQRankSum=
49298	chrY	58972106	.	A	C	36695.52	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum=
49299	chrY	58972132	.	C	T,*	2662.02	PASS	AC=3,22;AF=0.045,0.333;AN=66;BaseQRankSum=
49300	chrY	58972139	.	G	T,*	20579.40	PASS	AC=9,18;AF=0.161,0.321;AN=36;BaseQRankSum=
49301	chrY	58972141	.	T	G,*	15883.70	PASS	AC=9,19;AF=0.167,0.352;AN=36;BaseQRankSum=
49302	chrY	58972156	.	T	G,*	3542.94	PASS	AC=5,22;AF=0.100,0.440;AN=50;BaseQRankSum=
49303	chrY	58972169	.	G	T,*	12777.98	PASS	AC=9,19;AF=0.188,0.396;AN=36;BaseQRankSum=
49304	chrY	58972171	.	T	G,*	19674.75	PASS	AC=9,19;AF=0.196,0.413;AN=36;BaseQRankSum=
49305	chrY	58972206	.	C	G	165.39	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
49306	chrY	58972207	.	C	T	159.68	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
49307	chrY	58972211	.	C	A	2356.61	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum=
49308	chrY	58972212	.	G	A	115.80	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
49309	chrY	58972214	.	G	T	158.61	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49310	chrY	58972217	.	C	T	116.47	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
49311	chrY	58972240	.	G	A	2485.17	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
49312	chrY	58972245	.	C	T	2599.17	PASS	AC=7;AF=0.146;AN=48;BaseQRankSum=
49313	chrY	58972247	.	T	C	99.73	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
49314	chrY	58972305	.	C	T,*	839.62	PASS	AC=1,2;AF=0.014,0.029;AN=70;BaseQRankSum=
49315	chrY	58972314	.	C	G	46021.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49316	chrY	58972364	.	C	T	159.10	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49317	chrY	58972395	.	C	T	47.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49318	chrY	58972521	.	A	G	51102.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49319	chrY	58972526	.	A	C	461.83	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
49320	chrY	58972530	.	G	T,C	38239.80	PASS	AC=23,12;AF=0.338,0.176;AN=35;BaseQRankSum=
49321	chrY	58972550	.	C	T	41960.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
49322	chrY	58972575	.	C	A	147.07	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
49323	chrY	58972649	.	C	T,*	542.69	PASS	AC=4,2;AF=0.059,0.029;AN=68;BaseQRankSum=
49324	chrY	58972652	.	G	T,*	767.75	PASS	AC=5,2;AF=0.074,0.029;AN=68;BaseQRankSum=

49325	chrY	58972658	.	T	C,*	509.42	PASS	AC=4,2;AF=0.061,0.030;AN=66;BaseQ
49326	chrY	58972661	.	A	G,*	569.30	PASS	AC=4,2;AF=0.111,0.056;AN=36;BaseQ
49327	chrY	58972674	.	T	C,*	19519.23	PASS	AC=22,1;AF=0.379,0.017;AN
49328	chrY	58972680	.	C	G,*	335.59	PASS	AC=2,1;AF=0.030,0.015;AN=66;BaseQ
49329	chrY	58972692	.	T	A,*	321.04	PASS	AC=1,2;AF=0.016,0.031;AN=64;BaseQ
49330	chrY	58972701	.	C	A,*	39687.31	PASS	AC=6,13;AF=0.167,0.361;AN
49331	chrY	58972724	.	C	T,*	238.97	PASS	AC=3,1;AF=0.058,0.019;AN=52;BaseQ
49332	chrY	58972789	.	G	C,*	44575.98	PASS	AC=13,2;AF=0.464,0.071;AN
49333	chrY	58972791	.	A	T,*	2466.21	my_snp_filter	AC=8,3;AF=0.118,0.044;AN=
49334	chrY	58972804	.	G	A,*	8623.89	PASS	AC=11,2;AF=0.196,0.036;AN=56;Base
49335	chrY	58972853	.	C	A	8041.14	PASS	AC=17;AF=0.283;AN=60;BaseQRankSum
49336	chrY	58972854	.	A	T	20289.90	PASS	AC=34;AF=0.586;AN=58;Base
49337	chrY	58972893	.	C	T	9929.10	PASS	AC=13;AF=0.203;AN=64;BaseQRankSum
49338	chrY	58972918	.	C	T,*	4837.99	PASS	AC=14,4;AF=0.212,0.061;AN=66;Base
49339	chrY	58972923	.	C	T	331.03	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
49340	chrY	58972947	.	T	C	4421.96	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
49341	chrY	58972948	.	C	T	481.86	PASS	AC=7;AF=0.109;AN=64;BaseQRankSum=
49342	chrY	58972969	.	C	A	158.32	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
49343	chrY	58972979	.	G	C	52.36	PASS	AC=4;AF=0.067;AN=60;DP=7781;FS=0.
49344	chrY	58972983	.	C	A,*	6248.67	PASS	AC=3,7;AF=0.045,0.106;AN=66;BaseQ
49345	chrY	58972984	.	G	G,*	6260.08	PASS	AC=3,7;AF=0.047,0.109;AN=64;BaseQ
49346	chrY	58973009	.	A	G,*	6795.33	PASS	AC=1,9;AF=0.042,0.375;AN=24;BaseQ
49347	chrY	58973014	.	C	G,*	5164.96	PASS	AC=7,3;AF=0.194,0.083;AN=36;BaseQ
49348	chrY	58973068	.	A	C	22987.64	PASS	AC=13;AF=0.361;AN=36;Base
49349	chrY	58973094	.	C	G	33.35	my_snp_filter	AC=2;AF=0.038;AN=52;BaseQ
49350	chrY	58973104	.	C	G	10823.29	PASS	AC=8;AF=0.182;AN=44;BaseQ
49351	chrY	58973114	.	G	T	11037.43	PASS	AC=8;AF=0.364;AN=22;BaseQ
49352	chrY	58973145	.	T	G	31772.07	PASS	AC=17;AF=0.607;AN=28;Base
49353	chrY	58973155	.	C	T	152.50	my_snp_filter	AC=1;AF=0.023;AN=44;BaseQ
49354	chrY	58973169	.	C	T	302.29	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
49355	chrY	58973209	.	G	C	9379.47	PASS	AC=12;AF=0.250;AN=48;BaseQRankSum
49356	chrY	58973211	.	G	A	1348.99	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
49357	chrY	58973288	.	C	T	771.08	my_snp_filter	AC=6;AF=0.097;AN=62;BaseQ
49358	chrY	58973308	.	C	A	1820.74	PASS	AC=6;AF=0.111;AN=54;BaseQRankSum=
49359	chrY	58973313	.	G	A	1809.47	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
49360	chrY	58973328	.	C	T	673.82	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
49361	chrY	58973358	.	C	A	682.86	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
49362	chrY	58973359	.	G	A	1235.20	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49363	chrY	58973363	.	C	A	69864.75	PASS	AC=44;AF=0.647;AN=68;Base
49364	chrY	58973373	.	A	C	14753.25	PASS	AC=28;AF=0.400;AN=70;Base
49365	chrY	58973376	.	C	T	74416.36	PASS	AC=45;AF=0.662;AN=68;Base
49366	chrY	58973428	.	T	C	102970.49	PASS	AC=49;AF=0.700;AN=70;Base
49367	chrY	58973438	.	G	T	32583.19	PASS	AC=33;AF=0.471;AN=70;Base
49368	chrY	58973455	.	G	A	167.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49369	chrY	58973459	.	G	A	3163.80	my_snp_filter	AC=13;AF=0.186;AN=70;Base
49370	chrY	58973463	.	A	C	198.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49371	chrY	58973507	.	T	C	15079.32	PASS	AC=16;AF=0.229;AN=70;Base
49372	chrY	58973513	.	C	A	70811.17	PASS	AC=32;AF=0.457;AN=70;Base
49373	chrY	58973581	.	T	C	90448.72	PASS	AC=35;AF=0.500;AN=70;Base
49374	chrY	58973597	.	T	C	354.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49375	chrY	58973608	.	C	G,*	1462.93	my_snp_filter	AC=6,1;AF=0.086,0.014;AN=
49376	chrY	58973618	.	C	T,*	834.09	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
49377	chrY	58973625	.	G	A,*	8478.37	PASS	AC=11,1;AF=0.157,0.014;AN=70;Base
49378	chrY	58973634	.	G	A	182257.81	PASS	AC=43;AF=0.614;AN=70;Base
49379	chrY	58973645	.	A	G	14290.12	PASS	AC=19;AF=0.271;AN=70;Base
49380	chrY	58973695	.	T	A,*	16729.34	PASS	AC=30,1;AF=0.429,0.014;AN
49381	chrY	58973697	.	T	G	15542.31	PASS	AC=29;AF=0.414;AN=70;Base
49382	chrY	58973699	.	C	G	15488.99	PASS	AC=28;AF=0.400;AN=70;Base
49383	chrY	58973701	.	T	G	15446.09	PASS	AC=28;AF=0.400;AN=70;Base
49384	chrY	58973713	.	C	T	1370.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49385	chrY	58973714	.	G	A	7128.77	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
49386	chrY	58973728	.	C	T	48005.84	PASS	AC=34;AF=0.486;AN=70;Base
49387	chrY	58973791	.	G	A	9715.62	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
49388	chrY	58973800	.	G	A	102450.72	PASS	AC=35;AF=0.500;AN=70;Base
49389	chrY	58973804	.	G	A,*	406.76	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
49390	chrY	58973814	.	C	T	102622.72	PASS	AC=35;AF=0.500;AN=70;Base
49391	chrY	58973829	.	C	T	356.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49392	chrY	58973838	.	T	C	6173.72	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
49393	chrY	58973851	.	A	C	2891.49	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49394	chrY	58973861	.	A	G	47818.72	PASS	AC=35;AF=0.500;AN=70;Base
49395	chrY	58973864	.	T	C	180578.54	PASS	AC=37;AF=0.529;AN=70;Base
49396	chrY	58973885	.	C	A	2012.96	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49397	chrY	58973942	.	A	T,*	16168.32	PASS	AC=29,2;AF=0.414,0.029;AN
49398	chrY	58973945	.	C	T,*	41977.21	PASS	AC=29,1;AF=0.426,0.015;AN
49399	chrY	58973948	.	G	A	40550.92	PASS	AC=29;AF=0.426;AN=68;Base
49400	chrY	58973971	.	C	T	33040.91	PASS	AC=27;AF=0.397;AN=68;Base

49401	chrY	58974018	.	T	G	8005.44	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
49402	chrY	58974146	.	A	C	4948.38	PASS	AC=7;AF=0.500;AN=14;BaseQRankSum=
49403	chrY	58974160	.	C	T	861.65	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
49404	chrY	58974375	.	C	T	122.40	my_snp_filter	AC=4;AF=0.154;AN=26;BaseQ
49405	chrY	58974415	.	T	C	5172.09	PASS	AC=8;AF=0.333;AN=24;BaseQRankSum=
49406	chrY	58974421	.	C	A	326.44	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
49407	chrY	58974426	.	A	C	333.50	PASS	AC=2;AF=0.143;AN=14;BaseQRankSum=
49408	chrY	58974427	.	A	T	322.70	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
49409	chrY	58974441	.	G	T	4864.26	PASS	AC=5;AF=0.167;AN=30;BaseQRankSum=
49410	chrY	58974455	.	C	T	6775	PASS	AC=6;AF=0.150;AN=40;BaseQRankSum=
49411	chrY	58974456	.	A	G,T	13452.56	PASS	AC=6,5;AF=0.273,0.227;AN=
49412	chrY	58974458	.	A	T	16131.59	PASS	AC=8;AF=0.400;AN=20;BaseQ
49413	chrY	58974461	.	A	T,C	15390.56	PASS	AC=6,5;AF=0.273,0.227;AN=
49414	chrY	58974476	.	T	C	21227.83	PASS	AC=8;AF=0.190;AN=42;BaseQ
49415	chrY	58974491	.	A	C	28148.33	PASS	AC=10;AF=0.556;AN=18;Base
49416	chrY	58974517	.	C	A	32373.67	PASS	AC=22;AF=0.733;AN=30;Base
49417	chrY	58974553	.	G	A	362.65	PASS	AC=3;AF=0.060;AN=50;BaseQRankSum=
49418	chrY	58974599	.	T	A	34.30	PASS	AC=1;AF=0.019;AN=54;BaseQRankSum=
49419	chrY	58974612	.	A	C	12821.30	PASS	AC=12;AF=0.240;AN=50;Base
49420	chrY	58974630	.	A	C,*	934.32	my_snp_filter	AC=4,1;AF=0.074,0.019;AN=
49421	chrY	58974636	.	G	A	8536.56	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum=
49422	chrY	58974648	.	T	C	103.81	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
49423	chrY	58974652	.	A	C	85.34	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
49424	chrY	58974699	.	T	G	7862.14	PASS	AC=16;AF=0.276;AN=58;BaseQRankSum=
49425	chrY	58974711	.	G	A	4669.42	PASS	AC=14;AF=0.269;AN=52;BaseQRankSum=
49426	chrY	58974830	.	C	T	275.90	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
49427	chrY	58974836	.	A	T	145.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49428	chrY	58974847	.	T	A	65.63	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
49429	chrY	58974852	.	A	T	5138.72	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
49430	chrY	58974862	.	A	T	100.65	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
49431	chrY	58974865	.	T	C	116.77	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49432	chrY	58974868	.	G	T	483.37	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
49433	chrY	58974926	.	C	T	6881.05	PASS	AC=10;AF=0.217;AN=46;BaseQRankSum=
49434	chrY	58974951	.	G	A	594.93	PASS	AC=2;AF=0.071;AN=28;BaseQRankSum=
49435	chrY	58974965	.	G	C	35218.55	PASS	AC=13;AF=0.342;AN=38;Base
49436	chrY	58974991	.	G	C	45.96	PASS	AC=2;AF=0.100;AN=20;DP=4048;FS=0.
49437	chrY	58975046	.	G	A	3541.55	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
49438	chrY	58975128	.	A	T	102.22	my_snp_filter	AC=1;AF=0.029;AN=34;BaseQ
49439	chrY	58975147	.	G	A	126.46	my_snp_filter	AC=1;AF=0.056;AN=18;BaseQ
49440	chrY	58975161	.	G	C	39.66	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49441	chrY	58975167	.	A	T	13926.44	PASS	AC=15;AF=0.313;AN=48;Base
49442	chrY	58975176	.	G	T	1112.25	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
49443	chrY	58975213	.	T	C	869.25	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
49444	chrY	58975245	.	T	C	1363.84	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
49445	chrY	58975258	.	C	T	1477.18	PASS	AC=2;AF=0.059;AN=34;BaseQRankSum=
49446	chrY	58975261	.	G	A	1156.71	PASS	AC=2;AF=0.040;AN=50;BaseQRankSum=
49447	chrY	58975263	.	G	T	2174.86	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
49448	chrY	58975266	.	C	A	314.81	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
49449	chrY	58975272	.	A	T	153.16	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
49450	chrY	58975276	.	A	G	1739.76	PASS	AC=1;AF=0.022;AN=46;BaseQRankSum=
49451	chrY	58975278	.	G	T	1703.26	PASS	AC=1;AF=0.029;AN=34;BaseQRankSum=
49452	chrY	58975288	.	T	C	1410.37	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
49453	chrY	58975295	.	C	T	57.72	my_snp_filter	AC=1;AF=0.020;AN=50;BaseQ
49454	chrY	58975302	.	T	A	53820.52	PASS	AC=33;AF=0.786;AN=42;Base
49455	chrY	58975306	.	G	A	11838.89	PASS	AC=12;AF=0.273;AN=44;Base
49456	chrY	58975312	.	A	G	52960.74	PASS	AC=31;AF=0.596;AN=52;Base
49457	chrY	58975321	.	T	C,*	41807.60	PASS	AC=6,23;AF=0.136,0.523;AN=
49458	chrY	58975339	.	T	C	85.86	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
49459	chrY	58975345	.	C	T	13877.49	PASS	AC=11;AF=0.183;AN=60;Base
49460	chrY	58975346	.	G	A	1143.40	PASS	AC=1;AF=0.023;AN=44;BaseQRankSum=
49461	chrY	58975360	.	A	C	9988.92	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
49462	chrY	58975368	.	T	G	2147.75	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
49463	chrY	58975375	.	T	C	13217.76	PASS	AC=3;AF=0.068;AN=44;BaseQ
49464	chrY	58975416	.	C	T	17925.99	PASS	AC=3;AF=0.052;AN=58;BaseQ
49465	chrY	58975417	.	A	G	18101.18	PASS	AC=3;AF=0.052;AN=58;BaseQ
49466	chrY	58975427	.	A	T	4209.11	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
49467	chrY	58975439	.	T	C	46.85	PASS	AC=2;AF=0.029;AN=70;DP=6936;FS=0.
49468	chrY	58975440	.	G	C	51.87	PASS	AC=2;AF=0.029;AN=68;DP=6972;FS=0.
49469	chrY	58975442	.	C	A	22578.09	PASS	AC=6;AF=0.158;AN=38;BaseQ
49470	chrY	58975451	.	C	G	802.19	my_snp_filter	AC=8;AF=0.121;AN=66;BaseQ
49471	chrY	58975453	.	G	T	51.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49472	chrY	58975477	.	G	A	37860.90	PASS	AC=36;AF=0.667;AN=54;Base
49473	chrY	58975482	.	C	T	45.05	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
49474	chrY	58975502	.	C	T,*	4480.34	PASS	AC=1,16;AF=0.017,0.276;AN=58;Base
49475	chrY	58975503	.	T	A,*	29265.93	PASS	AC=17,10;AF=0.283,0.167;A
49476	chrY	58975536	.	G	C,A,*	45889.19	PASS	AC=6,1,18;AF=0.115,0.019,

49477	chrY	58975537	.	C	T,*	45813.51	PASS	AC=5,18;AF=0.100,0.360;AN
49478	chrY	58975541	.	C	T,*	15744.03	PASS	AC=1,25;AF=0.017,0.417;AN
49479	chrY	58975546	.	C	T,A,*	47982.81	PASS	AC=5,1,20;AF=0.089,0.018,
49480	chrY	58975552	.	C	T,*	16225.36	PASS	AC=5,21;AF=0.086,0.362;AN
49481	chrY	58975553	.	A	G,*	16260.78	PASS	AC=5,21;AF=0.081,0.339;AN
49482	chrY	58975556	.	C	G,T,*	44704.45	PASS	AC=6,1,7;AF=0.136,0.023,0
49483	chrY	58975562	.	G	C,*	26530.24	PASS	AC=4,8;AF=0.061,0.121;AN=
49484	chrY	58975566	.	C	A,*	8135.34	PASS	AC=15,12;AF=0.214,0.171;AN=70;Bas
49485	chrY	58975577	.	T	C,*	73659.26	PASS	AC=23,4;AF=0.426,0.074;AN
49486	chrY	58975579	.	A	T,*	49733.63	PASS	AC=6,15;AF=0.115,0.288;AN
49487	chrY	58975592	.	G	T,A	2361.44	PASS	AC=5,2;AF=0.074,0.029;AN=68;BaseQ
49488	chrY	58975594	.	G	T	17896.89	PASS	AC=5;AF=0.071;AN=70;BaseQ
49489	chrY	58975607	.	T	G	118546.85	PASS	AC=34;AF=0.607;AN=56;Base
49490	chrY	58975613	.	A	C,*	21683.10	PASS	AC=5,1;AF=0.071,0.014;AN=
49491	chrY	58975636	.	T	C,*	12512.94	PASS	AC=2,1;AF=0.034,0.017;AN=
49492	chrY	58975652	.	G	C	2977.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49493	chrY	58975657	.	C	T,*	3647.91	PASS	AC=2,9;AF=0.029,0.129;AN=70;BaseQ
49494	chrY	58975669	.	T	A	4078.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49495	chrY	58975693	.	A	T	26590.57	PASS	AC=33;AF=0.471;AN=70;Base
49496	chrY	58975694	.	T	C	24452.82	PASS	AC=6;AF=0.086;AN=70;BaseQ
49497	chrY	58975706	.	A	C	128741.47	PASS	AC=25;AF=0.379;AN=66;Base
49498	chrY	58975708	.	A	G	1442.92	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
49499	chrY	58975713	.	C	T	34854.95	PASS	AC=30;AF=0.455;AN=66;Base
49500	chrY	58975718	.	C	T	142693.47	PASS	AC=25;AF=0.379;AN=66;Base
49501	chrY	58975725	.	C	T	29995.05	PASS	AC=16;AF=0.242;AN=66;Base
49502	chrY	58975729	.	A	G	5675.52	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49503	chrY	58975736	.	T	C	2957.04	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
49504	chrY	58975737	.	C	A	345418.47	PASS	AC=42;AF=0.600;AN=70;Base
49505	chrY	58975740	.	T	C	156803.94	PASS	AC=26;AF=0.394;AN=66;Base
49506	chrY	58975752	.	A	G	13105.81	PASS	AC=5;AF=0.071;AN=70;BaseQ
49507	chrY	58975760	.	T	C	104365.97	PASS	AC=22;AF=0.355;AN=62;Base
49508	chrY	58975764	.	G	A	281952.95	PASS	AC=41;AF=0.603;AN=68;Base
49509	chrY	58975770	.	C	T	105369.26	PASS	AC=22;AF=0.355;AN=62;Base
49510	chrY	58975771	.	T	G	105098.03	PASS	AC=22;AF=0.355;AN=62;Base
49511	chrY	58975773	.	C	T	281.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49512	chrY	58975774	.	A	G	1408.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49513	chrY	58975777	.	C	G	4337.81	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49514	chrY	58975782	.	C	A	429.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49515	chrY	58975785	.	C	T	2041.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49516	chrY	58975788	.	C	G	35008.82	PASS	AC=30;AF=0.429;AN=70;Base
49517	chrY	58975792	.	C	G	101827.26	PASS	AC=22;AF=0.355;AN=62;Base
49518	chrY	58975801	.	T	C	101.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49519	chrY	58975806	.	T	A,*	97721.14	PASS	AC=22,1;AF=0.344,0.016;AN
49520	chrY	58975809	.	A	G,C	71044.94	PASS	AC=3,19;AF=0.043,0.271;AN
49521	chrY	58975820	.	C	G	211.60	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49522	chrY	58975833	.	C	T	3815.57	my_snp_filter	AC=8;AF=0.014;AN=70;BaseQ
49523	chrY	58975846	.	T	C	576.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49524	chrY	58975848	.	C	A	3085.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49525	chrY	58975851	.	T	G	3501.95	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49526	chrY	58975855	.	A	C	1069.20	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49527	chrY	58975858	.	C	T	41493.05	PASS	AC=22;AF=0.355;AN=62;Base
49528	chrY	58975859	.	A	T	41638.65	PASS	AC=22;AF=0.355;AN=62;Base
49529	chrY	58975866	.	C	A	4349.80	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49530	chrY	58975868	.	C	A	4347.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49531	chrY	58975877	.	C	A	8214.34	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
49532	chrY	58975896	.	T	C	84268.72	PASS	AC=35;AF=0.500;AN=70;Base
49533	chrY	58975902	.	C	T	149.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49534	chrY	58975908	.	C	T	10836.84	PASS	AC=12;AF=0.171;AN=70;Base
49535	chrY	58975923	.	C	A	4580.66	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49536	chrY	58975928	.	C	A	33394.36	PASS	AC=9;AF=0.136;AN=66;BaseQ
49537	chrY	58975935	.	C	A	6726.93	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49538	chrY	58975942	.	T	C	32375.93	PASS	AC=9;AF=0.150;AN=60;BaseQ
49539	chrY	58975947	.	C	G	22265.71	PASS	AC=25;AF=0.357;AN=70;Base
49540	chrY	58975949	.	A	T	31923.69	PASS	AC=9;AF=0.150;AN=60;BaseQ
49541	chrY	58975950	.	C	A	8754.90	my_snp_filter	AC=12;AF=0.176;AN=68;Base
49542	chrY	58975955	.	C	T	452.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49543	chrY	58975957	.	C	T	30914.38	PASS	AC=8;AF=0.133;AN=60;BaseQ
49544	chrY	58975958	.	T	C	31146.88	PASS	AC=8;AF=0.133;AN=60;BaseQ
49545	chrY	58975973	.	C	G	9719.21	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
49546	chrY	58975983	.	G	C	14416.02	PASS	AC=5;AF=0.086;AN=58;BaseQ
49547	chrY	58975987	.	C	T,*	5293.55	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQ
49548	chrY	58975989	.	A	C	1456.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49549	chrY	58976000	.	C	T	9419.98	PASS	AC=3;AF=0.052;AN=58;BaseQRankSum=
49550	chrY	58976004	.	A	T	405.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49551	chrY	58976012	.	C	G	437.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49552	chrY	58976017	.	A	G	5635.48	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ

49553	chrY	58976020	.	A	C	69640.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
49554	chrY	58976025	.	C	G	1799.97	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49555	chrY	58976033	.	G	A	2968.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49556	chrY	58976040	.	T	A	6068.34	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49557	chrY	58976049	.	C	T	79543.67	PASS	AC=34;AF=0.500;AN=68;BaseQ
49558	chrY	58976050	.	A	G	5618.51	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
49559	chrY	58976056	.	G	A	646.99	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49560	chrY	58976058	.	A	T	74449.89	PASS	AC=34;AF=0.500;AN=68;BaseQ
49561	chrY	58976059	.	C	G	2359.80	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
49562	chrY	58976137	.	C	A	37892.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
49563	chrY	58976142	.	G	T	44813.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
49564	chrY	58976174	.	C	A	31519.45	PASS	AC=31;AF=0.443;AN=70;BaseQ
49565	chrY	58976176	.	A	T,*	52320.76	PASS	AC=5,24;AF=0.071,0.343;AN=
49566	chrY	58976239	.	C	G	17185.91	PASS	AC=21;AF=0.309;AN=68;BaseQ
49567	chrY	58976256	.	A	G	209867.13	PASS	AC=39;AF=0.557;AN=70;BaseQ
49568	chrY	58976274	.	G	A	2202.86	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
49569	chrY	58976275	.	C	T	7180.85	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
49570	chrY	58976292	.	C	T	2080.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49571	chrY	58976332	.	T	C	159722.36	PASS	AC=36;AF=0.545;AN=66;BaseQ
49572	chrY	58976362	.	T	C	51.78	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
49573	chrY	58976367	.	T	C	44.70	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
49574	chrY	58976376	.	A	T	37259.19	PASS	AC=30;AF=0.441;AN=68;BaseQ
49575	chrY	58976381	.	A	G	4503.84	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
49576	chrY	58976384	.	A	C	69649.41	PASS	AC=37;AF=0.561;AN=66;BaseQ
49577	chrY	58976410	.	C	T,*	23735.28	PASS	AC=26,3;AF=0.382,0.044;AN=
49578	chrY	58976414	.	C	A,*	1350.80	my_snp_filter	AC=2,15;AF=0.029,0.214;AN=
49579	chrY	58976437	.	T	C	1271.50	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
49580	chrY	58976457	.	T	C,*	5483.51	PASS	AC=5,16;AF=0.081,0.258;AN=62;BaseQ
49581	chrY	58976458	.	G	T,*	4456.67	PASS	AC=6,11;AF=0.100,0.183;AN=60;BaseQ
49582	chrY	58976505	.	C	T	422.76	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
49583	chrY	58976507	.	T	C	32861.81	PASS	AC=35;AF=0.603;AN=58;BaseQ
49584	chrY	58976510	.	T	C	255.71	PASS	AC=2;AF=0.045;AN=44;BaseQRankSum=
49585	chrY	58976536	.	C	A,T	15592.92	PASS	AC=20,6;AF=0.385,0.115;AN=
49586	chrY	58976542	.	T	C	634.35	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
49587	chrY	58976552	.	C	T	858.16	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
49588	chrY	58976577	.	T	C	8287.87	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
49589	chrY	58976579	.	C	G	14713.93	PASS	AC=34;AF=0.486;AN=70;BaseQ
49590	chrY	58976583	.	C	T	862.51	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
49591	chrY	58976588	.	G	C	35141.27	PASS	AC=15;AF=0.234;AN=64;BaseQ
49592	chrY	58976589	.	G	T	35091.22	PASS	AC=14;AF=0.219;AN=64;BaseQ
49593	chrY	58976605	.	C	T	28312.12	PASS	AC=14;AF=0.212;AN=66;BaseQ
49594	chrY	58976616	.	T	A	23544.50	PASS	AC=13;AF=0.197;AN=66;BaseQ
49595	chrY	58976628	.	A	G	19144.60	PASS	AC=12;AF=0.182;AN=66;BaseQ
49596	chrY	58976631	.	T	C	209.96	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49597	chrY	58976648	.	T	A	12957.82	PASS	AC=9;AF=0.136;AN=66;BaseQ
49598	chrY	58976671	.	C	A	1113.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49599	chrY	58976702	.	C	A,*	33522.11	PASS	AC=10,22;AF=0.143,0.314;A
49600	chrY	58976712	.	C	A	69393.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
49601	chrY	58976743	.	A	T	57810.22	PASS	AC=32;AF=0.457;AN=70;BaseQ
49602	chrY	58976772	.	T	C	4583.88	PASS	AC=2;AF=0.033;AN=60;BaseQRankSum=
49603	chrY	58976776	.	A	T	2665.16	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
49604	chrY	58976782	.	A	G	210145.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
49605	chrY	58976804	.	T	C	222672.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
49606	chrY	58976808	.	A	C	4136.49	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
49607	chrY	58976811	.	G	T	38948.46	PASS	AC=30;AF=0.429;AN=70;BaseQ
49608	chrY	58976814	.	C	T	7839.98	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
49609	chrY	58976817	.	C	T	7416.72	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
49610	chrY	58976818	.	C	A	4973.10	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
49611	chrY	58976837	.	T	C	176261.19	PASS	AC=37;AF=0.529;AN=70;BaseQ
49612	chrY	58976852	.	C	T,*	9058.76	PASS	AC=1,12;AF=0.014,0.171;AN=70;BaseQ
49613	chrY	58976853	.	A	G,*	12361.42	PASS	AC=1,12;AF=0.014,0.171;AN=
49614	chrY	58976856	.	C	G	3310.46	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49615	chrY	58976868	.	A	T	540.42	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49616	chrY	58976871	.	C	T	372.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49617	chrY	58976873	.	G	C	836.10	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
49618	chrY	58976878	.	A	T	53.17	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49619	chrY	58976886	.	T	C	105436.44	PASS	AC=40;AF=0.571;AN=70;BaseQ
49620	chrY	58976894	.	C	G	264.47	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
49621	chrY	58976897	.	C	T	1351.52	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49622	chrY	58976902	.	C	A,G,*	5484.42	PASS	AC=7,2,11;AF=0.100,0.029,0.157;AN=
49623	chrY	58976908	.	A	T,*	4310.39	my_snp_filter	AC=10,13;AF=0.143,0.186;A
49624	chrY	58976912	.	T	C,*	13288.54	PASS	AC=23,7;AF=0.329,0.100;AN=
49625	chrY	58976921	.	C	G	618.21	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
49626	chrY	58976932	.	C	T	521.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49627	chrY	58976939	.	C	A	121.76	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49628	chrY	58976947	.	C	T	185.34	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=

49629	chrY	58976949	.	C	G	86.01	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49630	chrY	58976953	.	A	C,*	17856.63	PASS	AC=2,28;AF=0.029,0.400;AN
49631	chrY	58976955	.	T	C,*	18320.16	PASS	AC=1,31;AF=0.014,0.443;AN
49632	chrY	58976956	.	C	T,*	32240.02	PASS	AC=28,4;AF=0.400,0.057;AN
49633	chrY	58976958	.	A	T,*	18595.19	PASS	AC=1,32;AF=0.014,0.457;AN
49634	chrY	58976962	.	C	G,*	25184.59	PASS	AC=1,29;AF=0.014,0.414;AN
49635	chrY	58976964	.	C	A,*	2960.87	PASS	AC=9,2;AF=0.129,0.029;AN=70;BaseQ
49636	chrY	58976967	.	C	T,*	34399.91	PASS	AC=28,1;AF=0.400,0.014;AN
49637	chrY	58976969	.	C	G	43677.69	PASS	AC=30;AF=0.429;AN=70;Base
49638	chrY	58976974	.	C	G	2638.32	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
49639	chrY	58976979	.	G	T	54689.97	PASS	AC=32;AF=0.457;AN=70;Base
49640	chrY	58976984	.	C	A,T	55876.92	PASS	AC=29,2;AF=0.414,0.029;AN
49641	chrY	58976994	.	T	C	255.23	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49642	chrY	58976996	.	C	G	331.95	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49643	chrY	58977001	.	G	A	13669.49	PASS	AC=23;AF=0.329;AN=70;Base
49644	chrY	58977008	.	A	T	32791.72	PASS	AC=35;AF=0.500;AN=70;Base
49645	chrY	58977013	.	T	A	97387.70	PASS	AC=32;AF=0.457;AN=70;Base
49646	chrY	58977025	.	T	C	113868.74	PASS	AC=32;AF=0.457;AN=70;Base
49647	chrY	58977029	.	A	T	7829.34	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
49648	chrY	58977034	.	C	T	84060.81	PASS	AC=30;AF=0.429;AN=70;Base
49649	chrY	58977039	.	T	C	1749.60	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
49650	chrY	58977041	.	C	T	46029.58	PASS	AC=24;AF=0.343;AN=70;Base
49651	chrY	58977042	.	A	G	88550.37	PASS	AC=31;AF=0.443;AN=70;Base
49652	chrY	58977086	.	C	A	38103.14	PASS	AC=19;AF=0.271;AN=70;Base
49653	chrY	58977087	.	G	A	454440.63	PASS	AC=59;AF=0.843;AN=70;Base
49654	chrY	58977110	.	A	G	193945.92	PASS	AC=24;AF=0.480;AN=50;Base
49655	chrY	58977111	.	A	T	216351.32	PASS	AC=24;AF=0.480;AN=50;Base
49656	chrY	58977115	.	A	G	44.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49657	chrY	58977116	.	T	C	64025.72	PASS	AC=35;AF=0.500;AN=70;Base
49658	chrY	58977129	.	C	T	196177.32	PASS	AC=24;AF=0.480;AN=50;Base
49659	chrY	58977135	.	A	T	32.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49660	chrY	58977146	.	C	T	132295.32	PASS	AC=24;AF=0.480;AN=50;Base
49661	chrY	58977151	.	A	G	1207.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49662	chrY	58977203	.	C	G	14180.52	PASS	AC=6;AF=0.100;AN=60;BaseQ
49663	chrY	58977223	.	G	C	11324.52	PASS	AC=7;AF=0.233;AN=30;BaseQ
49664	chrY	58977228	.	C	A	562.68	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
49665	chrY	58977236	.	C	T	106.09	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49666	chrY	58977239	.	C	A	2804.52	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
49667	chrY	58977263	.	C	G,A	3136.21	PASS	AC=8,2;AF=0.190,0.048;AN=42;BaseQ
49668	chrY	58977274	.	T	A,G	2537.06	PASS	AC=6,3;AF=0.136,0.068;AN=44;BaseQ
49669	chrY	58977280	.	C	G	2593.48	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
49670	chrY	58977281	.	A	G	33.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49671	chrY	58977299	.	C	T	2756.85	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
49672	chrY	58977305	.	T	A	7136.99	PASS	AC=15;AF=0.300;AN=50;BaseQRankSum
49673	chrY	58977314	.	T	G	8418.24	PASS	AC=15;AF=0.341;AN=44;BaseQRankSum
49674	chrY	58977317	.	G	A	25003.66	PASS	AC=32;AF=0.457;AN=70;Base
49675	chrY	58977328	.	G	A	3291.27	PASS	AC=13;AF=0.191;AN=68;BaseQRankSum
49676	chrY	58977333	.	C	T	13008.57	PASS	AC=16;AF=0.381;AN=42;Base
49677	chrY	58977340	.	T	A	9899.32	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
49678	chrY	58977357	.	A	T	37525.02	PASS	AC=13;AF=0.295;AN=44;Base
49679	chrY	58977371	.	T	C	50676.78	PASS	AC=16;AF=0.348;AN=46;Base
49680	chrY	58977382	.	A	T	9866.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
49681	chrY	58977385	.	C	A	701.60	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
49682	chrY	58977398	.	G	C	47138.12	PASS	AC=17;AF=0.386;AN=44;Base
49683	chrY	58977415	.	C	A	3492.73	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49684	chrY	58977427	.	A	G	69068.92	PASS	AC=13;AF=0.310;AN=42;Base
49685	chrY	58977429	.	T	G	70394.07	PASS	AC=13;AF=0.310;AN=42;Base
49686	chrY	58977447	.	A	G	20611.14	PASS	AC=26;AF=0.371;AN=70;Base
49687	chrY	58977450	.	G	C	76731.05	PASS	AC=12;AF=0.286;AN=42;Base
49688	chrY	58977455	.	C	A	13669.36	PASS	AC=12;AF=0.171;AN=70;Base
49689	chrY	58977464	.	C	T	78268.68	PASS	AC=12;AF=0.273;AN=44;Base
49690	chrY	58977465	.	G	A	53459.04	PASS	AC=34;AF=0.486;AN=70;Base
49691	chrY	58977469	.	G	A	77273.68	PASS	AC=12;AF=0.273;AN=44;Base
49692	chrY	58977488	.	G	A	1016.26	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
49693	chrY	58977492	.	C	T	64312.36	PASS	AC=12;AF=0.261;AN=46;Base
49694	chrY	58977495	.	C	T	11302.80	PASS	AC=8;AF=0.114;AN=70;BaseQ
49695	chrY	58977503	.	C	G	21252.17	PASS	AC=10;AF=0.143;AN=70;Base
49696	chrY	58977523	.	C	A	24958.47	PASS	AC=30;AF=0.429;AN=70;Base
49697	chrY	58977540	.	C	T	3477.72	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
49698	chrY	58977547	.	G	A,T	9013.07	PASS	AC=12,6;AF=0.200,0.100;AN=60;Base
49699	chrY	58977556	.	T	C	3431.35	PASS	AC=11;AF=0.212;AN=52;BaseQRankSum
49700	chrY	58977565	.	C	G	1064.50	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49701	chrY	58977600	.	C	A	1325.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49702	chrY	58977608	.	C	T	31605.74	PASS	AC=27;AF=0.386;AN=70;Base
49703	chrY	58977621	.	C	A,*	17263.08	PASS	AC=18,5;AF=0.257,0.071;AN
49704	chrY	58977622	.	A	T,*	26820.94	PASS	AC=26,4;AF=0.371,0.057;AN

49705	chrY	58977623	.	C	T	1916.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49706	chrY	58977632	.	C	A	1201.81	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
49707	chrY	58977644	.	G	T	432.42	my_snp_filter	AC=2;AF=0.036;AN=56;BaseQ
49708	chrY	58977652	.	G	T	198.64	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQ
49709	chrY	58977659	.	C	T	114719.91	PASS	AC=38;AF=0.543;AN=70;Base
49710	chrY	58977673	.	G	C	184031.42	PASS	AC=69;AF=0.986;AN=70;Base
49711	chrY	58977687	.	T	G	1953.44	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
49712	chrY	58977694	.	G	C	459.15	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49713	chrY	58977713	.	C	T	835.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49714	chrY	58977723	.	T	C	98.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49715	chrY	58977725	.	C	A	757.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49716	chrY	58977729	.	C	T	114812.22	PASS	AC=44;AF=0.629;AN=70;Base
49717	chrY	58977735	.	T	A	276.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49718	chrY	58977738	.	C	A	6335.16	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
49719	chrY	58977739	.	A	T	1162.60	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49720	chrY	58977742	.	G	A,C	15493.74	PASS	AC=10,10;AF=0.172,0.172;A
49721	chrY	58977744	.	A	G	1386.67	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
49722	chrY	58977745	.	T	C	225.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49723	chrY	58977750	.	T	C	3247.18	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49724	chrY	58977765	.	T	C	166.72	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49725	chrY	58977785	.	C	G	29686.62	PASS	AC=9;AF=0.129;AN=70;BaseQ
49726	chrY	58977788	.	G	C	250784.82	PASS	AC=37;AF=0.529;AN=70;Base
49727	chrY	58977796	.	T	C	579.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
49728	chrY	58977797	.	C	G	33590.82	PASS	AC=9;AF=0.129;AN=70;BaseQ
49729	chrY	58977805	.	G	C,T,*	21021.53	PASS	AC=1,2,6;AF=0.014,0.029,0
49730	chrY	58977808	.	G	A	34382.27	PASS	AC=9;AF=0.129;AN=70;BaseQ
49731	chrY	58977810	.	C	T	308.66	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49732	chrY	58977814	.	A	T	2887.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
49733	chrY	58977817	.	C	G	68606.09	PASS	AC=29;AF=0.414;AN=70;Base
49734	chrY	58977828	.	G	C	217481.19	PASS	AC=37;AF=0.529;AN=70;Base
49735	chrY	58977830	.	C	T	55466.10	PASS	AC=27;AF=0.386;AN=70;Base
49736	chrY	58977834	.	A	C	58977.63	PASS	AC=27;AF=0.386;AN=70;Base
49737	chrY	58977835	.	C	A	990.88	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49738	chrY	58977838	.	A	C	59311.81	PASS	AC=27;AF=0.386;AN=70;Base
49739	chrY	58977839	.	A	T	37785.32	PASS	AC=24;AF=0.343;AN=70;Base
49740	chrY	58977840	.	C	A	58040.15	PASS	AC=15;AF=0.214;AN=70;Base
49741	chrY	58977843	.	C	A	55343.69	PASS	AC=26;AF=0.371;AN=70;Base
49742	chrY	58977844	.	A	C	5860.63	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
49743	chrY	58977853	.	C	A,T	55762.72	PASS	AC=16,18;AF=0.229,0.257;A
49744	chrY	58977854	.	A	G	7810.47	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49745	chrY	58977855	.	T	C	123.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49746	chrY	58977862	.	C	A	149681.01	PASS	AC=29;AF=0.414;AN=70;Base
49747	chrY	58977873	.	C	T	2022.62	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49748	chrY	58977876	.	T	G	3111.83	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
49749	chrY	58977877	.	G	A	2165.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49750	chrY	58977892	.	T	C	270371.27	PASS	AC=40;AF=0.588;AN=68;Base
49751	chrY	58977900	.	A	T	177412.11	PASS	AC=33;AF=0.485;AN=68;Base
49752	chrY	58977902	.	T	G	24826.31	PASS	AC=12;AF=0.171;AN=70;Base
49753	chrY	58977905	.	A	G	21431.95	PASS	AC=22;AF=0.314;AN=70;Base
49754	chrY	58977907	.	C	G	9787.60	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
49755	chrY	58977908	.	A	T	1963.45	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
49756	chrY	58977909	.	T	C,A	275268.75	PASS	AC=35,22;AF=0.515,0.324;A
49757	chrY	58977910	.	G	T,C	191886.39	PASS	AC=33,2;AF=0.485,0.029;AN
49758	chrY	58977911	.	G	A	7153.43	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
49759	chrY	58977923	.	C	G	14014.22	PASS	AC=12;AF=0.171;AN=70;Base
49760	chrY	58977925	.	G	T	185761.48	PASS	AC=33;AF=0.485;AN=68;Base
49761	chrY	58977928	.	G	C	1224.53	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
49762	chrY	58977936	.	G	A	9691.96	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
49763	chrY	58977952	.	T	C	11532.87	PASS	AC=11;AF=0.157;AN=70;Base
49764	chrY	58977953	.	A	C	281.37	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49765	chrY	58977958	.	A	G	1576.30	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49766	chrY	58977964	.	A	G	382.19	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49767	chrY	58977971	.	A	G	1714.72	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
49768	chrY	58977974	.	G	T	34525.82	PASS	AC=28;AF=0.400;AN=70;Base
49769	chrY	58977976	.	A	T	6525.74	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49770	chrY	58977994	.	A	G	84133.25	PASS	AC=29;AF=0.483;AN=60;Base
49771	chrY	58977999	.	C	A	37227.39	PASS	AC=27;AF=0.386;AN=70;Base
49772	chrY	58978009	.	C	G	926.14	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49773	chrY	58978014	.	C	T,G	1293.78	my_snp_filter	AC=8,1;AF=0.114,0.014;AN=
49774	chrY	58978021	.	A	T	27071.13	PASS	AC=24;AF=0.364;AN=66;Base
49775	chrY	58978024	.	G	A	153138.03	PASS	AC=31;AF=0.517;AN=60;Base
49776	chrY	58978031	.	A	T	93023.90	PASS	AC=29;AF=0.414;AN=70;Base
49777	chrY	58978051	.	A	C,*	176249.31	PASS	AC=31,6;AF=0.443,0.086;AN
49778	chrY	58978055	.	C	T	1126.90	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
49779	chrY	58978066	.	G	A,T	7517.21	PASS	AC=3,16;AF=0.043,0.229;AN=70;Base
49780	chrY	58978081	.	A	T	3191.60	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=

49781	chrY	58978087	.	T	C,*	30838.33	PASS	AC=22,1;AF=0.423,0.019;AN=70;BaseQRankSum=
49782	chrY	58978109	.	C	T	345.37	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
49783	chrY	58978110	.	G	A	984.54	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49784	chrY	58978124	.	C	A	14873.92	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
49785	chrY	58978139	.	G	C	125113.36	PASS	AC=43;AF=0.614;AN=70;BaseQRankSum=
49786	chrY	58978141	.	A	T	943.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49787	chrY	58978149	.	G	C	8915.29	PASS	AC=3;AF=0.063;AN=48;BaseQRankSum=
49788	chrY	58978150	.	C	T	42031.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
49789	chrY	58978154	.	C	A	53.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49790	chrY	58978159	.	C	G	3799.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49791	chrY	58978164	.	C	T	86.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49792	chrY	58978167	.	C	T	3509.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49793	chrY	58978173	.	C	T	255.12	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49794	chrY	58978177	.	T	A	6696.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49795	chrY	58978185	.	C	A	34501.80	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
49796	chrY	58978187	.	T	C	171286.87	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
49797	chrY	58978204	.	C	T,*	70737.72	PASS	AC=1,34;AF=0.014,0.486;AN=70;BaseQRankSum=
49798	chrY	58978206	.	A	C,*	70611.72	PASS	AC=1,34;AF=0.014,0.486;AN=70;BaseQRankSum=
49799	chrY	58978212	.	C	G,*	66437.94	PASS	AC=1,32;AF=0.015,0.471;AN=70;BaseQRankSum=
49800	chrY	58978216	.	A	T	339.47	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQRankSum=
49801	chrY	58978217	.	C	A	164.89	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
49802	chrY	58978235	.	T	C,G	194958.28	PASS	AC=34,32;AF=0.486,0.457;AN=70;BaseQRankSum=
49803	chrY	58978258	.	G	T	266787.19	PASS	AC=37;AF=0.529;AN=70;BaseQRankSum=
49804	chrY	58978278	.	T	C	420.91	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49805	chrY	58978285	.	C	T	175.64	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
49806	chrY	58978301	.	G	A	191284.54	PASS	AC=34;AF=0.607;AN=56;BaseQRankSum=
49807	chrY	58978302	.	T	C	3041.01	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
49808	chrY	58978305	.	T	C	3084.03	my_snp_filter	AC=1;AF=0.018;AN=56;BaseQRankSum=
49809	chrY	58978307	.	T	C	3206.91	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
49810	chrY	58978312	.	T	C	3552.15	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
49811	chrY	58978314	.	A	C	2725.82	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
49812	chrY	58978317	.	T	C	3684.31	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
49813	chrY	58978319	.	A	C	827.68	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
49814	chrY	58978322	.	T	C	2481.25	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49815	chrY	58978329	.	G	C	3327.10	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
49816	chrY	58978332	.	T	C	1938.10	PASS	AC=1;AF=0.018;AN=56;BaseQRankSum=
49817	chrY	58978350	.	C	T	4553.37	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49818	chrY	58978351	.	T	C	1397.29	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49819	chrY	58978359	.	G	A	1729.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49820	chrY	58978386	.	T	C	4072.89	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
49821	chrY	58978392	.	G	C	1996.78	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
49822	chrY	58978410	.	C	T	7342.98	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
49823	chrY	58978433	.	A	T	77300.17	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
49824	chrY	58978447	.	C	T	14286.12	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
49825	chrY	58978457	.	C	G	3802.98	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49826	chrY	58978462	.	C	A	291.58	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49827	chrY	58978463	.	A	G	218.08	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49828	chrY	58978474	.	T	C	147.14	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
49829	chrY	58978479	.	G	T,A	11101.42	PASS	AC=11,2;AF=0.229,0.042;AN=70;BaseQRankSum=
49830	chrY	58978481	.	C	G	159.93	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49831	chrY	58978508	.	A	C	33.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49832	chrY	58978509	.	C	G	45.14	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49833	chrY	58978518	.	A	G	104.35	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
49834	chrY	58978532	.	C	T	42601.95	PASS	AC=20;AF=0.303;AN=66;BaseQRankSum=
49835	chrY	58978538	.	T	A	2119.15	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
49836	chrY	58978548	.	C	T	3501.32	PASS	AC=13;AF=0.295;AN=44;BaseQRankSum=
49837	chrY	58978549	.	A	G	45056.27	PASS	AC=20;AF=0.455;AN=44;BaseQRankSum=
49838	chrY	58978568	.	C	A	312.68	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49839	chrY	58978582	.	G	C	3867.94	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
49840	chrY	58978601	.	C	T	136943.43	PASS	AC=32;AF=0.500;AN=64;BaseQRankSum=
49841	chrY	58978613	.	C	A	34.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49842	chrY	58978616	.	T	C	102.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49843	chrY	58978618	.	C	T	57624.74	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
49844	chrY	58978626	.	T	G	128544.83	PASS	AC=31;AF=0.470;AN=66;BaseQRankSum=
49845	chrY	58978641	.	C	G,*	49667.72	PASS	AC=27,8;AF=0.386,0.114;AN=70;BaseQRankSum=
49846	chrY	58978645	.	A	G	37664.02	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
49847	chrY	58978648	.	C	G	18275.68	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
49848	chrY	58978656	.	C	T	3901.29	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49849	chrY	58978671	.	T	C	5778.64	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49850	chrY	58978676	.	C	T	81.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
49851	chrY	58978681	.	G	C,A	262359.10	PASS	AC=40,10;AF=0.571,0.143;AN=70;BaseQRankSum=
49852	chrY	58978702	.	T	G	51625.11	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
49853	chrY	58978712	.	T	A	85472.03	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
49854	chrY	58978714	.	A	C	397002.67	PASS	AC=53;AF=0.803;AN=66;BaseQRankSum=
49855	chrY	58978716	.	T	C	6447.13	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49856	chrY	58978729	.	C	T	276338.44	PASS	AC=30;AF=0.500;AN=60;BaseQRankSum=

49857	chrY	58978732	.	C	T	272810.44	PASS	AC=30;AF=0.500;AN=60;BaseQ
49858	chrY	58978733	.	A	G	281198.44	PASS	AC=30;AF=0.500;AN=60;BaseQ
49859	chrY	58978735	.	A	C	272332.38	PASS	AC=29;AF=0.500;AN=58;BaseQ
49860	chrY	58978743	.	C	T	4904.70	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
49861	chrY	58978744	.	C	T	6714.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49862	chrY	58978762	.	T	C	47043.47	PASS	AC=20;AF=0.286;AN=70;BaseQ
49863	chrY	58978804	.	T	A	22187.73	PASS	AC=13;AF=0.186;AN=70;BaseQ
49864	chrY	58978806	.	C	G	840.72	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
49865	chrY	58978807	.	A	C	1093.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49866	chrY	58978816	.	C	T	12511.34	PASS	AC=26;AF=0.371;AN=70;BaseQ
49867	chrY	58978823	.	C	T	7706.05	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
49868	chrY	58978832	.	A	T	265.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49869	chrY	58978850	.	C	G	2942.87	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49870	chrY	58978858	.	G	C	55779.96	PASS	AC=43;AF=0.632;AN=68;BaseQ
49871	chrY	58978860	.	C	G	114.79	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
49872	chrY	58978862	.	T	A	2355.54	PASS	AC=8;AF=0.133;AN=60;BaseQRankSum=
49873	chrY	58978863	.	C	T	543.55	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
49874	chrY	58978872	.	A	C	2437.63	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49875	chrY	58978899	.	G	T	295.61	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49876	chrY	58978903	.	C	T	5289.11	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
49877	chrY	58978907	.	A	T	137.27	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
49878	chrY	58978909	.	G	T	37917.49	PASS	AC=39;AF=0.629;AN=62;BaseQ
49879	chrY	58978913	.	A	C	37219.56	PASS	AC=37;AF=0.617;AN=60;BaseQ
49880	chrY	58979041	.	A	C,*	571.08	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
49881	chrY	58979055	.	C	T,*	1077.37	PASS	AC=1,8;AF=0.014,0.114;AN=70;BaseQ
49882	chrY	58979060	.	C	A,*	15774.18	PASS	AC=1,28;AF=0.016,0.438;AN=
49883	chrY	58979087	.	C	A,*	316.81	PASS	AC=1,1;AF=0.019,0.019;AN=54;BaseQ
49884	chrY	58979098	.	T	C	66.47	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
49885	chrY	58979116	.	C	A	89.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49886	chrY	58979119	.	T	C	2415.09	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49887	chrY	58979137	.	T	C	2627.93	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49888	chrY	58979138	.	C	T	242.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49889	chrY	58979142	.	C	T	487.89	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
49890	chrY	58979152	.	A	G	412.43	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
49891	chrY	58979154	.	G	A	3135.37	PASS	AC=13;AF=0.250;AN=52;BaseQRankSum=
49892	chrY	58979190	.	A	C	130408.09	PASS	AC=41;AF=0.586;AN=70;BaseQ
49893	chrY	58979204	.	A	T	4633.72	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49894	chrY	58979206	.	T	A	30.84	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49895	chrY	58979208	.	C	T	30.98	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49896	chrY	58979209	.	G	A	136024.57	PASS	AC=38;AF=0.543;AN=70;BaseQ
49897	chrY	58979212	.	C	A	400.78	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49898	chrY	58979228	.	T	C	3296.46	PASS	AC=6;AF=0.103;AN=58;BaseQRankSum=
49899	chrY	58979234	.	A	T	2424.16	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
49900	chrY	58979237	.	A	C	113136.05	PASS	AC=37;AF=0.529;AN=70;BaseQ
49901	chrY	58979272	.	C	G	2567.26	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
49902	chrY	58979317	.	C	G	32110.51	PASS	AC=30;AF=0.429;AN=70;BaseQ
49903	chrY	58979364	.	C	A	16650.02	PASS	AC=32;AF=0.640;AN=50;BaseQ
49904	chrY	58979405	.	T	C	84.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49905	chrY	58979420	.	T	C,*	416.91	PASS	AC=5,4;AF=0.071,0.057;AN=70;BaseQ
49906	chrY	58979434	.	A	T,*	246.26	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
49907	chrY	58979440	.	T	C,*	358.49	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
49908	chrY	58979443	.	C	T,*	285.99	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
49909	chrY	58979450	.	T	C,*	11109.65	PASS	AC=19,2;AF=0.279,0.029;AN=
49910	chrY	58979456	.	G	A,*	1099	PASS	AC=3,2;AF=0.167,0.111;AN=18;BaseQ
49911	chrY	58979488	.	T	C,*	283.99	PASS	AC=2,1;AF=0.091,0.045;AN=22;DP=22
49912	chrY	58979493	.	C	T	2114.21	my_snp_filter	AC=7;AF=0.109;AN=64;BaseQ
49913	chrY	58979502	.	C	G	37916.90	PASS	AC=9;AF=0.136;AN=66;BaseQ
49914	chrY	58979505	.	C	T	5624.99	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
49915	chrY	58979531	.	G	A	5155	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
49916	chrY	58979543	.	A	G	4925.22	PASS	AC=2;AF=0.053;AN=38;BaseQRankSum=
49917	chrY	58979615	.	C	A	1378	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49918	chrY	58979621	.	A	G	160.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
49919	chrY	58979624	.	A	C	129261.51	PASS	AC=69;AF=0.986;AN=70;BaseQ
49920	chrY	58979626	.	C	A	146157.49	PASS	AC=69;AF=0.986;AN=70;BaseQ
49921	chrY	58979631	.	G	A	15606.92	PASS	AC=15;AF=0.234;AN=64;BaseQ
49922	chrY	58979633	.	T	A,*	7970.86	PASS	AC=1,14;AF=0.014,0.200;AN=70;BaseQ
49923	chrY	58979654	.	A	T	67036.40	PASS	AC=26;AF=0.481;AN=54;BaseQ
49924	chrY	58979661	.	T	A	69448.07	PASS	AC=26;AF=0.481;AN=54;BaseQ
49925	chrY	58979665	.	C	T	15277.21	PASS	AC=13;AF=0.186;AN=70;BaseQ
49926	chrY	58979673	.	T	G	14628.91	PASS	AC=13;AF=0.186;AN=70;BaseQ
49927	chrY	58979676	.	A	T	21561.31	PASS	AC=26;AF=0.371;AN=70;BaseQ
49928	chrY	58979705	.	C	G	722.62	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
49929	chrY	58979714	.	T	C	98882.02	PASS	AC=55;AF=0.786;AN=70;BaseQ
49930	chrY	58979735	.	C	T	282.34	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
49931	chrY	58979740	.	C	T	78309.22	PASS	AC=44;AF=0.629;AN=70;BaseQ
49932	chrY	58979761	.	A	C	3867.62	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum=

49933	chrY	58979780	.	C	T	1125.06	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
49934	chrY	58979781	.	A	G	106.58	my_snp_filter	AC=2;AF=0.030;AN=66;BaseQ
49935	chrY	58979782	.	C	T	1983.37	PASS	AC=7;AF=0.135;AN=52;BaseQRankSum=
49936	chrY	58979825	.	C	A,T	339.58	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
49937	chrY	58979830	.	C	A	598.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49938	chrY	58979835	.	C	T	763.45	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
49939	chrY	58979854	.	C	G	963.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49940	chrY	58979857	.	T	G	1024.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
49941	chrY	58979860	.	C	G	1777.95	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49942	chrY	58979862	.	T	C	1719.68	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
49943	chrY	58979863	.	G	T	8752.59	PASS	AC=12;AF=0.222;AN=54;BaseQRankSum=
49944	chrY	58979874	.	C	T	1919.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49945	chrY	58979876	.	A	C	1964.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49946	chrY	58979885	.	C	T,*	9556.94	PASS	AC=3,5;AF=0.044,0.074;AN=68;BaseQ
49947	chrY	58979894	.	C	G	114.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
49948	chrY	58979899	.	C	G	790.85	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
49949	chrY	58979903	.	T	C	7080.79	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
49950	chrY	58979909	.	T	A	1358.08	PASS	AC=8;AF=0.154;AN=52;BaseQRankSum=
49951	chrY	58979933	.	G	C	203.88	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
49952	chrY	58979943	.	G	A	263.62	PASS	AC=4;AF=0.083;AN=48;BaseQRankSum=
49953	chrY	58979971	.	C	T	106.95	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
49954	chrY	58979994	.	C	T,*	17927.59	PASS	AC=1,22;AF=0.017,0.367;AN=
49955	chrY	58979995	.	T	C,*	9673.47	PASS	AC=1,17;AF=0.017,0.283;AN=60;Base
49956	chrY	58980003	.	A	G	57.70	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49957	chrY	58980014	.	A	C,T	5973	PASS	AC=10,1;AF=0.156,0.016;AN=64;Base
49958	chrY	58980019	.	T	C	1411.92	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
49959	chrY	58980024	.	C	T	1159.48	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
49960	chrY	58980034	.	C	T	291.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49961	chrY	58980049	.	G	T	296.15	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
49962	chrY	58980091	.	C	A	29243.68	PASS	AC=33;AF=0.471;AN=70;Base
49963	chrY	58980097	.	C	T	5327.39	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
49964	chrY	58980153	.	C	A	23653.31	PASS	AC=5;AF=0.071;AN=70;BaseQ
49965	chrY	58980159	.	G	T,*	17232.64	PASS	AC=3,3;AF=0.043,0.043;AN=
49966	chrY	58980171	.	T	C	31506.75	PASS	AC=12;AF=0.500;AN=24;Base
49967	chrY	58980175	.	G	A	25598.07	PASS	AC=11;AF=0.157;AN=70;Base
49968	chrY	58980184	.	C	T	826.47	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49969	chrY	58980186	.	C	T	11484.64	PASS	AC=9;AF=0.129;AN=70;BaseQ
49970	chrY	58980187	.	A	G	5782.52	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49971	chrY	58980191	.	C	T	30301.67	PASS	AC=13;AF=0.186;AN=70;Base
49972	chrY	58980194	.	T	A	954.54	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
49973	chrY	58980198	.	C	G,*	44827.08	PASS	AC=17,14;AF=0.283,0.233;A
49974	chrY	58980203	.	C	T	37137.26	PASS	AC=18;AF=0.273;AN=66;Base
49975	chrY	58980220	.	A	G	178.75	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
49976	chrY	58980223	.	C	A	10832.16	PASS	AC=5;AF=0.071;AN=70;BaseQ
49977	chrY	58980243	.	C	G	21512.91	PASS	AC=16;AF=0.235;AN=68;Base
49978	chrY	58980249	.	G	T	22857.35	PASS	AC=16;AF=0.258;AN=62;Base
49979	chrY	58980261	.	C	G	28688.10	PASS	AC=18;AF=0.346;AN=52;Base
49980	chrY	58980268	.	C	T	31224.17	PASS	AC=17;AF=0.258;AN=66;Base
49981	chrY	58980284	.	C	T	7741.64	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
49982	chrY	58980289	.	C	A	43.33	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49983	chrY	58980293	.	T	C	52530.24	PASS	AC=16;AF=0.500;AN=32;Base
49984	chrY	58980296	.	C	T	50740.93	PASS	AC=43;AF=0.614;AN=70;Base
49985	chrY	58980297	.	T	G	23445.70	PASS	AC=12;AF=0.171;AN=70;Base
49986	chrY	58980298	.	C	G	531	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
49987	chrY	58980307	.	C	T	1574.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
49988	chrY	58980322	.	C	G	3476.02	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
49989	chrY	58980331	.	A	G	17280.60	PASS	AC=8;AF=0.121;AN=66;BaseQ
49990	chrY	58980334	.	T	C	18689.26	PASS	AC=21;AF=0.438;AN=48;Base
49991	chrY	58980343	.	G	T	37354.30	PASS	AC=23;AF=0.442;AN=52;Base
49992	chrY	58980345	.	G	T	18684.64	PASS	AC=11;AF=0.220;AN=50;Base
49993	chrY	58980346	.	A	G	73966.33	PASS	AC=24;AF=0.480;AN=50;Base
49994	chrY	58980351	.	A	G	40817.97	PASS	AC=23;AF=0.359;AN=64;Base
49995	chrY	58980358	.	C	T	294.87	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
49996	chrY	58980361	.	A	T	3883.56	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
49997	chrY	58980366	.	T	C	43374.60	PASS	AC=22;AF=0.314;AN=70;Base
49998	chrY	58980370	.	T	G	9218.96	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
49999	chrY	58980394	.	C	T,*	11608.87	PASS	AC=2,13;AF=0.030,0.197;AN=
50000	chrY	58980415	.	C	T	140582.05	PASS	AC=30;AF=0.429;AN=70;Base
50001	chrY	58980419	.	A	C	2513.16	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50002	chrY	58980421	.	A	C,*	447.05	my_snp_filter	AC=1,1;AF=0.014,0.014;AN=
50003	chrY	58980422	.	C	A	55502.60	PASS	AC=22;AF=0.314;AN=70;Base
50004	chrY	58980424	.	C	A,T	199512.12	PASS	AC=29,16;AF=0.500,0.276;A
50005	chrY	58980429	.	C	G	103533.99	PASS	AC=28;AF=0.400;AN=70;Base
50006	chrY	58980435	.	C	T	72.94	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50007	chrY	58980436	.	A	T	21819.48	PASS	AC=16;AF=0.229;AN=70;Base
50008	chrY	58980442	.	T	A	23281.05	PASS	AC=21;AF=0.300;AN=70;Base

50009	chrY	58980446	.	A	T	699.94	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50010	chrY	58980449	.	C	A,T	142281.80	PASS	AC=19,10;AF=0.339,0.179;A
50011	chrY	58980450	.	C	T	22908.48	PASS	AC=20;AF=0.323;AN=62;Base
50012	chrY	58980452	.	C	A	8369.41	my_snp_filter	AC=12;AF=0.171;AN=70;Base
50013	chrY	58980454	.	C	A	63938.32	PASS	AC=24;AF=0.343;AN=70;Base
50014	chrY	58980464	.	C	G	36043.58	PASS	AC=19;AF=0.271;AN=70;Base
50015	chrY	58980467	.	C	A	128.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50016	chrY	58980480	.	C	T	637.18	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50017	chrY	58980486	.	A	G	10968.55	PASS	AC=7;AF=0.117;AN=60;BaseQ
50018	chrY	58980488	.	C	T	74466.75	PASS	AC=17;AF=0.354;AN=48;Base
50019	chrY	58980489	.	A	G	23741.84	PASS	AC=9;AF=0.188;AN=48;BaseQ
50020	chrY	58980500	.	C	T	21316.67	PASS	AC=24;AF=0.343;AN=70;Base
50021	chrY	58980521	.	A	G	67.41	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50022	chrY	58980522	.	C	A	8832.65	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50023	chrY	58980525	.	T	C	41292.86	PASS	AC=18;AF=0.290;AN=62;Base
50024	chrY	58980535	.	C	A	1833.44	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50025	chrY	58980541	.	A	T,*	1564.78	PASS	AC=2,2;AF=0.029,0.029;AN=70;BaseQ
50026	chrY	58980546	.	T	A	765.26	PASS	AC=1;AF=0.167;AN=6;BaseQRankSum=0
50027	chrY	58980552	.	C	T,*	953.52	PASS	AC=1,2;AF=0.019,0.038;AN=52;BaseQ
50028	chrY	58980560	.	C	T,*	537.30	my_snp_filter	AC=3,1;AF=0.043,0.014;AN=
50029	chrY	58980561	.	A	T,*	303	my_snp_filter	AC=1,1;AF=0.015,0.015;AN=
50030	chrY	58980562	.	T	C,*	393.20	my_snp_filter	AC=2,1;AF=0.031,0.016;AN=
50031	chrY	58980565	.	C	A,*	6682.18	PASS	AC=13,1;AF=0.186,0.014;AN=70;Base
50032	chrY	58980581	.	A	C	15521.68	PASS	AC=26;AF=0.394;AN=66;Base
50033	chrY	58980582	.	C	T	18313.24	PASS	AC=26;AF=0.394;AN=66;Base
50034	chrY	58980587	.	T	C	389.93	PASS	AC=2;AF=0.034;AN=58;BaseQRankSum=
50035	chrY	58980589	.	C	T	107.68	PASS	AC=1;AF=0.017;AN=58;BaseQRankSum=
50036	chrY	58980594	.	C	T	90.28	my_snp_filter	AC=1;AF=0.019;AN=52;BaseQ
50037	chrY	58980595	.	C	T	179.39	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
50038	chrY	58980596	.	C	A,T	518.66	PASS	AC=3,2;AF=0.058,0.038;AN=52;BaseQ
50039	chrY	58980602	.	T	C	108.04	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50040	chrY	58980611	.	C	T	829.65	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
50041	chrY	58980615	.	C	A	658.54	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
50042	chrY	58980616	.	A	C	2746.86	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
50043	chrY	58980619	.	A	C	2540.21	PASS	AC=10;AF=0.179;AN=56;BaseQRankSum=
50044	chrY	58980625	.	C	T	45.57	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50045	chrY	58980629	.	C	T	72.22	PASS	AC=2;AF=0.042;AN=48;BaseQRankSum=
50046	chrY	58980630	.	G	C	1610.26	PASS	AC=8;AF=0.200;AN=40;BaseQRankSum=
50047	chrY	58980655	.	C	A	783.72	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50048	chrY	58980656	.	A	T,G	708.87	PASS	AC=3,3;AF=0.043,0.043;AN=70;BaseQ
50049	chrY	58980659	.	C	A	168.61	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50050	chrY	58980664	.	C	T,*	1281.79	PASS	AC=3,4;AF=0.043,0.057;AN=70;BaseQ
50051	chrY	58980666	.	A	C,*	1904.82	PASS	AC=8,4;AF=0.114,0.057;AN=70;BaseQ
50052	chrY	58980672	.	T	C,*	1817.26	PASS	AC=8,4;AF=0.114,0.057;AN=70;BaseQ
50053	chrY	58980674	.	C	A,*	1198.65	PASS	AC=2,4;AF=0.029,0.057;AN=70;BaseQ
50054	chrY	58980680	.	C	T	7531.97	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50055	chrY	58980681	.	A	G	53.92	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50056	chrY	58980685	.	C	A	584.75	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
50057	chrY	58980691	.	A	T	540.45	my_snp_filter	AC=9;AF=0.237;AN=38;BaseQ
50058	chrY	58980693	.	A	G,T,*	1773.96	PASS	AC=7,5,3;AF=0.206,0.147,0.088;AN=
50059	chrY	58980696	.	A	G	7227.90	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum=
50060	chrY	58980700	.	C	T,*	1146.70	PASS	AC=1,3;AF=0.015,0.045;AN=66;BaseQ
50061	chrY	58980721	.	A	T,*	443.27	PASS	AC=3,2;AF=0.043,0.029;AN=70;BaseQ
50062	chrY	58980728	.	T	G	91.69	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50063	chrY	58980732	.	T	A	301.57	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
50064	chrY	58980755	.	C	T	76.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50065	chrY	58980756	.	A	G	76.75	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50066	chrY	58980779	.	T	C,*	13971.97	PASS	AC=3,16;AF=0.075,0.400;AN=
50067	chrY	58980808	.	T	C	1802.69	PASS	AC=3;AF=0.083;AN=36;BaseQRankSum=
50068	chrY	58980809	.	G	A,*	1795.25	PASS	AC=2,2;AF=0.056,0.056;AN=36;BaseQ
50069	chrY	58980815	.	A	G	264.21	PASS	AC=4;AF=0.077;AN=52;BaseQRankSum=
50070	chrY	58980821	.	C	T	226.90	PASS	AC=3;AF=0.050;AN=60;BaseQRankSum=
50071	chrY	58980830	.	C	T	197.68	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
50072	chrY	58980831	.	C	G	1009.59	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
50073	chrY	58980852	.	A	T	666.32	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
50074	chrY	58980860	.	C	T	10217.21	PASS	AC=16;AF=0.296;AN=54;Base
50075	chrY	58980878	.	T	A	7669.07	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
50076	chrY	58980883	.	T	A	30145.98	PASS	AC=19;AF=0.413;AN=46;Base
50077	chrY	58980904	.	T	A	4928.80	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50078	chrY	58980917	.	C	T	32.37	PASS	AC=2;AF=0.038;AN=52;BaseQRankSum=
50079	chrY	58980928	.	A	G	103.97	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
50080	chrY	58980939	.	T	G	266.44	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
50081	chrY	58980949	.	C	T	149.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50082	chrY	58980959	.	C	T	880.32	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50083	chrY	58980975	.	A	G	868.01	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
50084	chrY	58980983	.	G	T	16371.68	PASS	AC=11;AF=0.275;AN=40;Base

50085	chrY	58981025	.	G	C	577.91	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50086	chrY	58981039	.	A	T	3202.14	PASS	AC=4;AF=0.125;AN=32;BaseQRankSum=
50087	chrY	58981044	.	C	T	456.48	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50088	chrY	58981047	.	G	C	21413.85	PASS	AC=20;AF=0.500;AN=40;BaseQRankSum=
50089	chrY	58981057	.	A	T,*	5154.78	my_snp_filter	AC=2,5;AF=0.029,0.074;AN=
50090	chrY	58981059	.	G	T,*	5006.30	my_snp_filter	AC=2,4;AF=0.029,0.057;AN=
50091	chrY	58981063	.	A	C,*	4699.95	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQRankSum=
50092	chrY	58981065	.	T	A,*	4502.90	PASS	AC=2,3;AF=0.029,0.043;AN=70;BaseQRankSum=
50093	chrY	58981069	.	C	T,*	11502.01	PASS	AC=4,2;AF=0.182,0.091;AN=
50094	chrY	58981073	.	T	G	779.57	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum=
50095	chrY	58981075	.	T	A	734.35	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50096	chrY	58981088	.	G	C,*	3591.64	PASS	AC=1,3;AF=0.014,0.043;AN=70;BaseQRankSum=
50097	chrY	58981093	.	C	G,*	1508.33	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQRankSum=
50098	chrY	58981100	.	T	A,*	1680.96	PASS	AC=1,1;AF=0.015,0.015;AN=66;BaseQRankSum=
50099	chrY	58981103	.	C	G,*	2601.84	PASS	AC=1,2;AF=0.016,0.031;AN=64;BaseQRankSum=
50100	chrY	58981108	.	A	C,G,*	2543.58	PASS	AC=3,1,1;AF=0.047,0.016,0.016;AN=
50101	chrY	58981160	.	A	G	984.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50102	chrY	58981162	.	A	C	824.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
50103	chrY	58981165	.	C	T,*	633.68	my_snp_filter	AC=3,2;AF=0.050,0.033;AN=
50104	chrY	58981166	.	T	A,G,*	3842.02	my_snp_filter	AC=7,6,2;AF=0.117,0.100,0.100
50105	chrY	58981180	.	C	A,*	792.74	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
50106	chrY	58981181	.	T	C,*	845.26	my_snp_filter	AC=3,2;AF=0.043,0.029;AN=
50107	chrY	58981191	.	C	G,*	6734.68	PASS	AC=14,1;AF=0.200,0.014;AN=70;BaseQRankSum=
50108	chrY	58981198	.	C	T,*	1058.36	my_snp_filter	AC=4,2;AF=0.057,0.029;AN=
50109	chrY	58981199	.	T	A	553.63	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
50110	chrY	58981201	.	C	A,*	1151.67	my_snp_filter	AC=4,2;AF=0.057,0.029;AN=
50111	chrY	58981221	.	C	T	108.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
50112	chrY	58981226	.	C	A	123.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
50113	chrY	58981238	.	T	A	1729.31	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50114	chrY	58981247	.	T	G	32654.45	PASS	AC=29;AF=0.439;AN=66;BaseQRankSum=
50115	chrY	58981256	.	G	C	591.67	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
50116	chrY	58981257	.	G	A,T	34219.48	PASS	AC=28,1;AF=0.424,0.015;AN=
50117	chrY	58981258	.	C	T	198.51	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50118	chrY	58981274	.	C	T,*	31114.18	PASS	AC=1,28;AF=0.014,0.400;AN=
50119	chrY	58981282	.	A	T	5527.26	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
50120	chrY	58981290	.	G	C	33583.84	PASS	AC=30;AF=0.455;AN=66;BaseQRankSum=
50121	chrY	58981305	.	T	C	311.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
50122	chrY	58981315	.	C	A	28971.02	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
50123	chrY	58981316	.	A	G,C	85620.57	PASS	AC=36,31;AF=0.514,0.443;AN=
50124	chrY	58981317	.	T	C	438.36	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
50125	chrY	58981342	.	A	T	279.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
50126	chrY	58981347	.	A	G	1235.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50127	chrY	58981348	.	C	G	1240.02	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50128	chrY	58981360	.	G	C	22220.40	PASS	AC=26;AF=0.448;AN=58;BaseQRankSum=
50129	chrY	58981365	.	C	T	1181.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50130	chrY	58981380	.	A	C	1241.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50131	chrY	58981383	.	C	T	67.53	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50132	chrY	58981397	.	A	T	117.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
50133	chrY	58981401	.	C	T	936.44	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50134	chrY	58981410	.	A	G	3168.37	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum=
50135	chrY	58981443	.	G	A	1573.79	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50136	chrY	58981449	.	G	A	62485.41	PASS	AC=38;AF=0.576;AN=66;BaseQRankSum=
50137	chrY	58981482	.	C	T	69570.45	PASS	AC=32;AF=0.552;AN=58;BaseQRankSum=
50138	chrY	58981590	.	G	T	17967.74	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
50139	chrY	58981677	.	A	C	36495.32	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum=
50140	chrY	58981682	.	C	G	107.95	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
50141	chrY	58981699	.	T	C	346.79	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
50142	chrY	58981701	.	C	T	33972.19	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
50143	chrY	58981708	.	G	A	31516.18	PASS	AC=19;AF=0.288;AN=66;BaseQRankSum=
50144	chrY	58981712	.	C	A	31045.30	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
50145	chrY	58981713	.	T	C	31233.53	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum=
50146	chrY	58981721	.	G	A	214.57	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQRankSum=
50147	chrY	58981723	.	G	A	29032.55	PASS	AC=19;AF=0.279;AN=68;BaseQRankSum=
50148	chrY	58981750	.	A	T,G	24325.91	PASS	AC=13,11;AF=0.191,0.162;AN=
50149	chrY	58981759	.	T	C	152948.82	PASS	AC=49;AF=0.700;AN=70;BaseQRankSum=
50150	chrY	58981760	.	C	T	2570.24	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
50151	chrY	58981769	.	C	A,*	60089.66	PASS	AC=2,29;AF=0.029,0.414;AN=
50152	chrY	58981770	.	C	T,*	60092.65	PASS	AC=2,29;AF=0.029,0.414;AN=
50153	chrY	58981786	.	A	G	96.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
50154	chrY	58981789	.	G	C	56.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
50155	chrY	58981812	.	C	T	66518.06	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
50156	chrY	58981820	.	T	C	41945.02	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
50157	chrY	58981843	.	T	G	183.96	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
50158	chrY	58981851	.	C	A	7556.43	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQRankSum=
50159	chrY	58981854	.	C	A	7416.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50160	chrY	58981855	.	C	T	70255.87	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=

50161	chrY	58981856	.	A	T	186.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50162	chrY	58981857	.	T	C	19664.79	PASS	AC=22;AF=0.314;AN=70;Base
50163	chrY	58981861	.	A	T	207.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50164	chrY	58981864	.	C	G	611.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50165	chrY	58981865	.	C	A	67008.25	PASS	AC=25;AF=0.357;AN=70;Base
50166	chrY	58981873	.	T	C	114441.02	PASS	AC=27;AF=0.386;AN=70;Base
50167	chrY	58981874	.	G	A	113779.75	PASS	AC=27;AF=0.386;AN=70;Base
50168	chrY	58981880	.	A	G	20279.39	PASS	AC=16;AF=0.229;AN=70;Base
50169	chrY	58981886	.	C	T	44265.81	PASS	AC=27;AF=0.386;AN=70;Base
50170	chrY	58981901	.	C	A	81.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50171	chrY	58981921	.	T	A,*	2303.25	my_snp_filter	AC=2,3;AF=0.029,0.043;AN
50172	chrY	58981954	.	G	C,*	57597.86	PASS	AC=27,2;AF=0.643,0.048;AN
50173	chrY	58982012	.	G	A	17317.22	PASS	AC=13;AF=0.500;AN=26;Base
50174	chrY	58982015	.	C	T	2197.72	PASS	AC=2;AF=0.125;AN=16;BaseQRankSum=
50175	chrY	58982018	.	C	A	1952.95	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
50176	chrY	58982023	.	T	C	265.98	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50177	chrY	58982029	.	T	G	190.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50178	chrY	58982045	.	C	A	2087.94	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50179	chrY	58982074	.	T	G	888.60	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50180	chrY	58982081	.	A	C	685.10	PASS	AC=2;AF=0.500;AN=4;BaseQRankSum=2
50181	chrY	58982096	.	C	T	161.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50182	chrY	58982108	.	T	C	32.55	PASS	AC=2;AF=0.036;AN=56;BaseQRankSum=
50183	chrY	58982110	.	G	C	37.05	PASS	AC=2;AF=0.200;AN=10;BaseQRankSum=
50184	chrY	58982127	.	G	A	20655.58	PASS	AC=22;AF=0.579;AN=38;Base
50185	chrY	58982150	.	G	A	1400.57	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50186	chrY	58982160	.	G	T	22545.68	PASS	AC=22;AF=0.611;AN=36;Base
50187	chrY	58982178	.	G	A	70.18	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50188	chrY	58982232	.	C	G	704.36	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50189	chrY	58982238	.	C	T	6718.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
50190	chrY	58982239	.	A	T	396.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50191	chrY	58982244	.	A	T	1781.65	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50192	chrY	58982250	.	C	T	10926.95	PASS	AC=26;AF=0.371;AN=70;Base
50193	chrY	58982252	.	G	C	52490.27	PASS	AC=25;AF=0.463;AN=54;Base
50194	chrY	58982266	.	T	C	3633.96	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50195	chrY	58982267	.	C	A	304.07	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50196	chrY	58982278	.	C	A	146.65	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
50197	chrY	58982279	.	G	A	51359.20	PASS	AC=31;AF=0.500;AN=62;Base
50198	chrY	58982285	.	C	T	30.97	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50199	chrY	58982289	.	A	T	39192.54	PASS	AC=23;AF=0.359;AN=64;Base
50200	chrY	58982291	.	G	C	99525.59	PASS	AC=39;AF=0.629;AN=62;Base
50201	chrY	58982294	.	A	T	37551.71	PASS	AC=23;AF=0.348;AN=66;Base
50202	chrY	58982304	.	A	G,*	13054.90	PASS	AC=20,1;AF=0.286,0.014;AN
50203	chrY	58982308	.	C	A	367.88	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50204	chrY	58982324	.	T	A	100831.46	PASS	AC=38;AF=0.613;AN=62;Base
50205	chrY	58982327	.	C	A	8329.24	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
50206	chrY	58982333	.	C	A	46446.43	PASS	AC=23;AF=0.329;AN=70;Base
50207	chrY	58982338	.	C	T	48145.86	PASS	AC=23;AF=0.329;AN=70;Base
50208	chrY	58982341	.	C	T	53336.73	PASS	AC=30;AF=0.517;AN=58;Base
50209	chrY	58982342	.	G	A	49144.57	PASS	AC=23;AF=0.383;AN=60;Base
50210	chrY	58982346	.	G	T	562.23	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
50211	chrY	58982348	.	A	T	68.29	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50212	chrY	58982353	.	T	A	114789.20	PASS	AC=43;AF=0.694;AN=62;Base
50213	chrY	58982356	.	G	T	256.81	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50214	chrY	58982360	.	C	T	13397.65	PASS	AC=14;AF=0.200;AN=70;Base
50215	chrY	58982362	.	C	A	2970.30	PASS	AC=8;AF=0.118;AN=68;BaseQRankSum=
50216	chrY	58982371	.	G	C,T	24832.61	PASS	AC=16,6;AF=0.229,0.086;AN
50217	chrY	58982398	.	A	G	19308.44	PASS	AC=26;AF=0.371;AN=70;Base
50218	chrY	58982414	.	C	A	39.68	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50219	chrY	58982416	.	A	T	684.24	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50220	chrY	58982420	.	C	T	81.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50221	chrY	58982421	.	G	A,T	1191.40	my_snp_filter	AC=3,5;AF=0.043,0.071;AN=
50222	chrY	58982429	.	C	G	107.96	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50223	chrY	58982441	.	A	T	2527.58	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50224	chrY	58982467	.	T	A	110.88	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50225	chrY	58982471	.	G	A	209827.45	PASS	AC=42;AF=0.600;AN=70;Base
50226	chrY	58982490	.	T	C	55016.27	PASS	AC=19;AF=0.352;AN=54;Base
50227	chrY	58982512	.	C	T	914.84	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50228	chrY	58982524	.	C	G	115107.96	PASS	AC=24;AF=0.414;AN=58;Base
50229	chrY	58982529	.	G	T	197.26	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50230	chrY	58982547	.	T	C	116545.21	PASS	AC=24;AF=0.400;AN=60;Base
50231	chrY	58982549	.	C	A	501.85	my_snp_filter	AC=4;AF=0.057;AN=70;Base
50232	chrY	58982553	.	T	C	111943.47	PASS	AC=24;AF=0.387;AN=62;Base
50233	chrY	58982559	.	A	C	224182.84	PASS	AC=36;AF=0.514;AN=70;Base
50234	chrY	58982572	.	G	T	423.30	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
50235	chrY	58982573	.	T	C	94456.47	PASS	AC=24;AF=0.387;AN=62;Base
50236	chrY	58982577	.	C	G	62048.64	PASS	AC=31;AF=0.443;AN=70;Base

50237	chrY	58982587	.	G	A,C	272334.98	PASS	AC=36,24;AF=0.514,0.343;A
50238	chrY	58982595	.	C	G	6814.75	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
50239	chrY	58982605	.	C	T	68247.96	PASS	AC=23;AF=0.348;AN=66;Base
50240	chrY	58982609	.	C	G	206.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50241	chrY	58982612	.	C	A	63285.57	PASS	AC=22;AF=0.355;AN=62;Base
50242	chrY	58982616	.	A	G	5312.30	my_snp_filter	AC=14;AF=0.200;AN=70;Base
50243	chrY	58982621	.	G	A	61042.17	PASS	AC=21;AF=0.350;AN=60;Base
50244	chrY	58982626	.	A	T	4819.48	my_snp_filter	AC=11;AF=0.157;AN=70;Base
50245	chrY	58982638	.	C	A	48952.39	PASS	AC=18;AF=0.300;AN=60;Base
50246	chrY	58982661	.	T	A	40271.31	PASS	AC=18;AF=0.290;AN=62;Base
50247	chrY	58982696	.	C	T	29535.69	PASS	AC=14;AF=0.233;AN=60;Base
50248	chrY	58982712	.	T	C	898.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50249	chrY	58982713	.	T	C	27910.18	PASS	AC=14;AF=0.233;AN=60;Base
50250	chrY	58982716	.	T	C	337.85	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50251	chrY	58982719	.	C	T	89426.53	PASS	AC=34;AF=0.486;AN=70;Base
50252	chrY	58982724	.	C	T	29458.05	PASS	AC=14;AF=0.219;AN=64;Base
50253	chrY	58982726	.	A	C	31357.17	PASS	AC=15;AF=0.250;AN=60;Base
50254	chrY	58982752	.	T	A,*	31121.49	PASS	AC=8,7;AF=0.114,0.100;AN=
50255	chrY	58982797	.	A	T,C	131903.30	PASS	AC=15,12;AF=0.214,0.171;A
50256	chrY	58982820	.	A	C	166095.22	PASS	AC=30;AF=0.429;AN=70;Base
50257	chrY	58982821	.	A	T,G	616.43	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
50258	chrY	58982823	.	C	A	16386.84	PASS	AC=26;AF=0.371;AN=70;Base
50259	chrY	58982830	.	T	C	132884.40	PASS	AC=30;AF=0.429;AN=70;Base
50260	chrY	58982831	.	G	A	361.85	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50261	chrY	58982840	.	C	G	164609.11	PASS	AC=31;AF=0.443;AN=70;Base
50262	chrY	58982876	.	C	T	48763.55	PASS	AC=34;AF=0.486;AN=70;Base
50263	chrY	58982898	.	C	A	88.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50264	chrY	58982916	.	C	A	128.26	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50265	chrY	58982922	.	A	T	34972.76	PASS	AC=33;AF=0.471;AN=70;Base
50266	chrY	58982933	.	C	A	43346.56	PASS	AC=24;AF=0.343;AN=70;Base
50267	chrY	58982934	.	T	C	70155.93	PASS	AC=28;AF=0.400;AN=70;Base
50268	chrY	58982937	.	A	G	130.76	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50269	chrY	58982938	.	T	G	68206.07	PASS	AC=28;AF=0.412;AN=68;Base
50270	chrY	58982939	.	T	C	15810.73	PASS	AC=24;AF=0.353;AN=68;Base
50271	chrY	58982940	.	C	A	94.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50272	chrY	58982943	.	G	A	45847.70	PASS	AC=24;AF=0.343;AN=70;Base
50273	chrY	58982952	.	A	T	11377.30	PASS	AC=24;AF=0.343;AN=70;Base
50274	chrY	58982960	.	C	T	64686.03	PASS	AC=27;AF=0.386;AN=70;Base
50275	chrY	58982962	.	A	T	63367.12	PASS	AC=27;AF=0.397;AN=68;Base
50276	chrY	58982967	.	A	T	3823.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50277	chrY	58982975	.	C	T	102.27	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50278	chrY	58982991	.	T	C	100.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50279	chrY	58983002	.	A	C	62.49	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50280	chrY	58983005	.	G	T	2222.11	my_snp_filter	AC=7;AF=0.117;AN=60;BaseQ
50281	chrY	58983007	.	T	A	35.04	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50282	chrY	58983008	.	C	T	1671.39	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50283	chrY	58983013	.	C	T	1058.13	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50284	chrY	58983063	.	T	A	2290.80	PASS	AC=9;AF=0.180;AN=50;BaseQRankSum=
50285	chrY	58983072	.	C	G	1035.60	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50286	chrY	58983075	.	T	A	36.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50287	chrY	58983082	.	C	A	1787.46	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
50288	chrY	58983088	.	G	A	274.33	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50289	chrY	58983094	.	C	T	90.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50290	chrY	58983113	.	C	G	385.97	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
50291	chrY	58983116	.	A	T	5995.40	PASS	AC=18;AF=0.346;AN=52;BaseQRankSum
50292	chrY	58983127	.	C	G	1105.14	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
50293	chrY	58983128	.	C	T	4131.99	PASS	AC=14;AF=0.206;AN=68;BaseQRankSum
50294	chrY	58983140	.	T	G,*	29595.53	PASS	AC=2,22;AF=0.029,0.314;AN
50295	chrY	58983147	.	C	G	33864.30	PASS	AC=28;AF=0.400;AN=70;Base
50296	chrY	58983157	.	G	C	125127.73	PASS	AC=33;AF=0.550;AN=60;Base
50297	chrY	58983180	.	C	A	42.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50298	chrY	58983182	.	C	G	13528.57	PASS	AC=16;AF=0.308;AN=52;Base
50299	chrY	58983183	.	T	C	14204.79	PASS	AC=16;AF=0.308;AN=52;Base
50300	chrY	58983185	.	C	T	14721.26	PASS	AC=16;AF=0.229;AN=70;Base
50301	chrY	58983193	.	C	T	27827.41	PASS	AC=26;AF=0.433;AN=60;Base
50302	chrY	58983194	.	G	A	18896.16	PASS	AC=16;AF=0.308;AN=52;Base
50303	chrY	58983207	.	T	C	25598.73	PASS	AC=16;AF=0.308;AN=52;Base
50304	chrY	58983222	.	C	G	78.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50305	chrY	58983227	.	C	A	47344.82	PASS	AC=30;AF=0.429;AN=70;Base
50306	chrY	58983232	.	C	A	2876.12	my_snp_filter	AC=10;AF=0.143;AN=70;Base
50307	chrY	58983237	.	G	A	47061.38	PASS	AC=23;AF=0.411;AN=56;Base
50308	chrY	58983238	.	A	T	947.99	my_snp_filter	AC=6;AF=0.088;AN=68;BaseQ
50309	chrY	58983247	.	C	T	255.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50310	chrY	58983249	.	C	A	4214.07	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
50311	chrY	58983283	.	C	A	37442.76	PASS	AC=30;AF=0.429;AN=70;Base
50312	chrY	58983294	.	T	G	79158.53	PASS	AC=34;AF=0.486;AN=70;Base

50313	chrY	58983295	.	C	A	30243.74	PASS	AC=32;AF=0.457;AN=70;Base
50314	chrY	58983306	.	G	T	39281.74	PASS	AC=30;AF=0.429;AN=70;Base
50315	chrY	58983314	.	T	G	208034.35	PASS	AC=54;AF=0.771;AN=70;Base
50316	chrY	58983334	.	T	C	907.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50317	chrY	58983341	.	A	G	3774.74	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
50318	chrY	58983348	.	T	G	248.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50319	chrY	58983349	.	A	G	248.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50320	chrY	58983352	.	A	T	243.56	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50321	chrY	58983353	.	C	T	174.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50322	chrY	58983357	.	A	T	52967.72	PASS	AC=35;AF=0.500;AN=70;Base
50323	chrY	58983412	.	G	A	3223.52	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50324	chrY	58983442	.	T	C	374.19	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50325	chrY	58983541	.	C	A	1015	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50326	chrY	58983593	.	A	C	7216.70	PASS	AC=21;AF=0.318;AN=66;BaseQRankSum=
50327	chrY	58983602	.	G	C	49162.62	PASS	AC=42;AF=0.677;AN=62;Base
50328	chrY	58983604	.	A	G	49053.60	PASS	AC=42;AF=0.677;AN=62;Base
50329	chrY	58983620	.	T	G	6230.74	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
50330	chrY	58983659	.	T	C	524.53	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
50331	chrY	58983664	.	C	A	1515.39	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50332	chrY	58983665	.	T	C	102.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50333	chrY	58983674	.	A	C	1508.48	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50334	chrY	58983680	.	C	G	79.80	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50335	chrY	58983704	.	T	C	41799.75	PASS	AC=49;AF=0.700;AN=70;Base
50336	chrY	58983809	.	A	G	112946.03	PASS	AC=50;AF=0.714;AN=70;Base
50337	chrY	58983840	.	C	A	34945.19	PASS	AC=33;AF=0.471;AN=70;Base
50338	chrY	58983923	.	G	T	51019.96	PASS	AC=31;AF=0.443;AN=70;Base
50339	chrY	58983933	.	A	G	46715.19	PASS	AC=33;AF=0.471;AN=70;Base
50340	chrY	58983936	.	A	C	7573.07	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
50341	chrY	58983964	.	A	C	31410.80	PASS	AC=32;AF=0.457;AN=70;Base
50342	chrY	58984051	.	T	C	6852.33	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
50343	chrY	58984057	.	G	A	43662.72	PASS	AC=35;AF=0.500;AN=70;Base
50344	chrY	58984089	.	G	A,*	575.44	my_snp_filter	AC=4,1;AF=0.057,0.014;AN=
50345	chrY	58984091	.	C	G	82521.53	PASS	AC=45;AF=0.643;AN=70;Base
50346	chrY	58984106	.	C	G	511.23	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50347	chrY	58984127	.	C	T	564.84	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50348	chrY	58984146	.	G	A,T	107077.51	PASS	AC=35,32;AF=0.500,0.457;A
50349	chrY	58984156	.	C	T	1258.15	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50350	chrY	58984174	.	T	A	54833.72	PASS	AC=35;AF=0.500;AN=70;Base
50351	chrY	58984176	.	T	C	101.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50352	chrY	58984197	.	G	A	451.69	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50353	chrY	58984206	.	C	T	62622.72	PASS	AC=35;AF=0.500;AN=70;Base
50354	chrY	58984233	.	A	G	191466.34	PASS	AC=50;AF=0.714;AN=70;Base
50355	chrY	58984239	.	C	T	28068.72	PASS	AC=35;AF=0.500;AN=70;Base
50356	chrY	58984292	.	C	T	1160.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50357	chrY	58984293	.	G	A	959.21	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50358	chrY	58984308	.	C	T	173305.30	PASS	AC=50;AF=0.714;AN=70;Base
50359	chrY	58984310	.	G	A	46656.72	PASS	AC=35;AF=0.500;AN=70;Base
50360	chrY	58984371	.	T	C	5357.59	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
50361	chrY	58984375	.	C	T	3635.87	my_snp_filter	AC=16;AF=0.229;AN=70;Base
50362	chrY	58984376	.	C	T	24400.84	PASS	AC=35;AF=0.500;AN=70;Base
50363	chrY	58984379	.	G	C	2202.40	my_snp_filter	AC=10;AF=0.143;AN=70;Base
50364	chrY	58984386	.	A	T	495.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50365	chrY	58984388	.	C	T	312.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50366	chrY	58984406	.	G	C	158.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50367	chrY	58984422	.	C	A	54651.23	PASS	AC=37;AF=0.529;AN=70;Base
50368	chrY	58984423	.	T	C	6715.71	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50369	chrY	58984459	.	G	A	23471.85	PASS	AC=36;AF=0.514;AN=70;Base
50370	chrY	58984604	.	G	A	35.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50371	chrY	58984626	.	G	T	166.65	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50372	chrY	58984647	.	A	C	199	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50373	chrY	58984663	.	C	T	20908.35	PASS	AC=37;AF=0.529;AN=70;Base
50374	chrY	58984671	.	G	T	124.79	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50375	chrY	58984673	.	G	A	383.27	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
50376	chrY	58984674	.	T	C	520.46	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum=
50377	chrY	58984686	.	T	C	151.99	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50378	chrY	58984691	.	G	A	92.18	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50379	chrY	58984712	.	T	C	94.37	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50380	chrY	58984721	.	T	G	90.72	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50381	chrY	58984724	.	G	C	50.11	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50382	chrY	58984725	.	C	T	52.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50383	chrY	58984738	.	G	T	1058.65	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50384	chrY	58984740	.	C	T	38.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50385	chrY	58984744	.	G	A	905.88	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50386	chrY	58984771	.	G	A	1172.69	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50387	chrY	58984773	.	G	A	170.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50388	chrY	58984788	.	C	T	1068.75	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=

50389	chrY	58984804	.	A	G	863.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50390	chrY	58984813	.	T	G	739.01	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50391	chrY	58984832	.	A	C	331.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50392	chrY	58984850	.	C	T	133.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50393	chrY	58984854	.	G	T	31.01	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50394	chrY	58984866	.	T	G	59838.72	PASS	AC=35;AF=0.500;AN=70;Base
50395	chrY	58984897	.	A	C	51303.73	PASS	AC=35;AF=0.500;AN=70;Base
50396	chrY	58984907	.	C	A	118.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50397	chrY	58984910	.	T	G	73594.10	PASS	AC=36;AF=0.514;AN=70;Base
50398	chrY	58984937	.	T	C	58959.85	PASS	AC=36;AF=0.514;AN=70;Base
50399	chrY	58985013	.	G	A	1305.71	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50400	chrY	58985031	.	G	T	82.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50401	chrY	58985071	.	G	A	406.30	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
50402	chrY	58985083	.	G	T	71.74	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
50403	chrY	58985088	.	G	C	382.42	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
50404	chrY	58985091	.	A	G	374.80	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
50405	chrY	58985097	.	C	T	796.94	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
50406	chrY	58985099	.	G	A	797.83	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
50407	chrY	58985109	.	C	G	180.21	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
50408	chrY	58985113	.	A	G	1053.81	my_snp_filter	AC=7;AF=0.103;AN=68;BaseQ
50409	chrY	58985147	.	G	A	8134.22	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50410	chrY	58985191	.	A	T	47358	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
50411	chrY	58985198	.	T	C	51023.93	PASS	AC=33;AF=0.485;AN=68;Base
50412	chrY	58985215	.	A	G	170.38	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50413	chrY	58985216	.	A	G,*	896.67	my_snp_filter	AC=1,3;AF=0.014,0.043;AN=
50414	chrY	58985217	.	C	G,*	980.53	my_snp_filter	AC=2,3;AF=0.029,0.043;AN=
50415	chrY	58985382	.	T	A	48974.84	PASS	AC=36;AF=0.514;AN=70;Base
50416	chrY	58985455	.	A	G	40300.98	PASS	AC=39;AF=0.557;AN=70;Base
50417	chrY	58985458	.	A	T	12248.36	PASS	AC=33;AF=0.471;AN=70;Base
50418	chrY	58985460	.	G	A	2406.35	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
50419	chrY	58985694	.	T	G	76508.72	PASS	AC=35;AF=0.500;AN=70;Base
50420	chrY	58985696	.	T	A	76908.72	PASS	AC=35;AF=0.500;AN=70;Base
50421	chrY	58985712	.	T	G	70157.63	PASS	AC=34;AF=0.486;AN=70;Base
50422	chrY	58985784	.	T	C	15992.46	PASS	AC=34;AF=0.500;AN=68;Base
50423	chrY	58985793	.	G	C	779.97	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50424	chrY	58985842	.	A	T	6937.17	PASS	AC=25;AF=0.379;AN=66;BaseQRankSum=
50425	chrY	58985862	.	C	G	199.17	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50426	chrY	58985926	.	C	G	236.58	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50427	chrY	58985947	.	T	G	3657.33	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50428	chrY	58985998	.	T	G	54687.83	PASS	AC=42;AF=0.600;AN=70;Base
50429	chrY	58986029	.	G	A	17868.36	PASS	AC=33;AF=0.471;AN=70;Base
50430	chrY	58986126	.	C	A	511.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50431	chrY	58986135	.	C	T	8377.56	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
50432	chrY	58986164	.	G	A	46100.60	PASS	AC=35;AF=0.500;AN=70;Base
50433	chrY	58986166	.	C	T	45893.60	PASS	AC=35;AF=0.500;AN=70;Base
50434	chrY	58986167	.	T	A	233.10	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50435	chrY	58986184	.	C	A	454.49	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
50436	chrY	58986189	.	C	G	629.27	my_snp_filter	AC=11;AF=0.157;AN=70;Base
50437	chrY	58986190	.	T	C	703.89	my_snp_filter	AC=11;AF=0.157;AN=70;Base
50438	chrY	58986204	.	A	G,C	14577.23	PASS	AC=30,2;AF=0.429,0.029;AN=
50439	chrY	58986236	.	A	G	2175.52	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50440	chrY	58986250	.	A	C	53235.39	PASS	AC=37;AF=0.529;AN=70;Base
50441	chrY	58986277	.	T	G	2873.93	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50442	chrY	58986296	.	C	G	2710.80	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50443	chrY	58986330	.	C	G	1718.19	my_snp_filter	AC=13;AF=0.186;AN=70;Base
50444	chrY	58986334	.	G	T	1499.15	my_snp_filter	AC=12;AF=0.171;AN=70;Base
50445	chrY	58986342	.	A	C	39235.76	PASS	AC=35;AF=0.500;AN=70;Base
50446	chrY	58986347	.	G	A	1059.21	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
50447	chrY	58986369	.	T	G	330.54	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50448	chrY	58986370	.	C	A	11086.62	PASS	AC=32;AF=0.457;AN=70;Base
50449	chrY	58986371	.	T	C	226.72	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50450	chrY	58986378	.	G	T	42681.73	PASS	AC=35;AF=0.500;AN=70;Base
50451	chrY	58986418	.	T	G	43004.03	PASS	AC=36;AF=0.514;AN=70;Base
50452	chrY	58986429	.	C	T	56.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50453	chrY	58986442	.	A	G	349.75	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50454	chrY	58986453	.	C	T	792.46	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50455	chrY	58986457	.	A	T	47427.77	PASS	AC=35;AF=0.500;AN=70;Base
50456	chrY	58986458	.	C	A	183.32	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50457	chrY	58986459	.	A	T	191.83	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50458	chrY	58986463	.	C	A	186.77	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50459	chrY	58986466	.	T	C	363.59	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50460	chrY	58986467	.	G	T	402.60	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50461	chrY	58986472	.	G	A	325.36	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50462	chrY	58986474	.	T	A	326.61	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50463	chrY	58986475	.	C	A	189.22	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50464	chrY	58986479	.	A	C	762.02	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=

50465	chrY	58986486	.	T	A	312.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50466	chrY	58986492	.	T	A	199.45	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50467	chrY	58986494	.	T	A	52791.29	PASS	AC=37;AF=0.529;AN=70;Base
50468	chrY	58986505	.	C	G	876.56	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50469	chrY	58986519	.	A	T	369.67	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50470	chrY	58986520	.	T	C	317.27	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50471	chrY	58986530	.	C	T,*	501.90	PASS	AC=1,1;AF=0.014,0.014;AN=70;BaseQ
50472	chrY	58986545	.	C	T	339.89	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50473	chrY	58986547	.	G	C	340.21	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50474	chrY	58986549	.	G	A	250	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50475	chrY	58986559	.	A	C	1245.19	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50476	chrY	58986571	.	C	T	255.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50477	chrY	58986574	.	T	C	256.13	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50478	chrY	58986590	.	G	T	1429.15	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50479	chrY	58986602	.	T	A	704.91	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50480	chrY	58986603	.	G	T	741.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50481	chrY	58986604	.	C	T	823.94	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50482	chrY	58986606	.	C	A	108.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50483	chrY	58986617	.	G	A	1077.39	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50484	chrY	58986620	.	G	T	1091.40	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50485	chrY	58986624	.	C	T	4463.18	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50486	chrY	58986630	.	C	T	3281.02	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50487	chrY	58986635	.	T	A	672.23	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50488	chrY	58986639	.	C	G	936.31	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50489	chrY	58986660	.	T	C	3641.71	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50490	chrY	58986666	.	C	G	532.02	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50491	chrY	58986670	.	A	G	3288.36	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50492	chrY	58986673	.	G	C	3114.13	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50493	chrY	58986682	.	C	T	565.67	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50494	chrY	58986688	.	A	G	324.29	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50495	chrY	58986690	.	G	A	494.53	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50496	chrY	58986694	.	C	T	440.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50497	chrY	58986695	.	C	A	890.80	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50498	chrY	58986697	.	A	T	2557.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50499	chrY	58986700	.	T	C	476.82	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50500	chrY	58986701	.	C	T	1905.01	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50501	chrY	58986703	.	A	G	189.03	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50502	chrY	58986706	.	C	T	500.90	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50503	chrY	58986710	.	G	T	315.11	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50504	chrY	58986718	.	G	C	218.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50505	chrY	58986720	.	G	A	108.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50506	chrY	58986722	.	A	G	117.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50507	chrY	58986764	.	C	T	86.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50508	chrY	58986769	.	T	C	153.16	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50509	chrY	58986771	.	A	G	170.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50510	chrY	58986774	.	G	C	151.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50511	chrY	58986785	.	G	T	197.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50512	chrY	58986788	.	G	A	83716.85	PASS	AC=36;AF=0.514;AN=70;Base
50513	chrY	58986789	.	G	T	158.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50514	chrY	58986790	.	C	T	64921.73	PASS	AC=35;AF=0.500;AN=70;Base
50515	chrY	58986799	.	G	A	166.87	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50516	chrY	58986802	.	C	T	113.77	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50517	chrY	58986808	.	C	A	1154.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50518	chrY	58986814	.	T	C	107.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50519	chrY	58986823	.	C	G,T	6359.76	PASS	AC=14,1;AF=0.200,0.014;AN=70;Base
50520	chrY	58986827	.	A	G	168.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50521	chrY	58986843	.	C	T	46026.61	PASS	AC=36;AF=0.514;AN=70;Base
50522	chrY	58986847	.	G	T	113.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50523	chrY	58986851	.	T	G	126.74	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50524	chrY	58986856	.	G	A	83.98	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50525	chrY	58986863	.	G	A	171.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50526	chrY	58986887	.	C	T	71.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50527	chrY	58986888	.	C	G	74.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50528	chrY	58986894	.	A	G	74.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50529	chrY	58986905	.	T	G	74.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50530	chrY	58986911	.	T	G	62.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50531	chrY	58986914	.	C	A	71.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50532	chrY	58986935	.	C	T	93406.53	PASS	AC=35;AF=0.500;AN=70;Base
50533	chrY	58986936	.	T	A	93973.53	PASS	AC=35;AF=0.500;AN=70;Base
50534	chrY	58987021	.	A	C	50993.83	PASS	AC=39;AF=0.557;AN=70;Base
50535	chrY	58987058	.	A	G	44748.86	PASS	AC=37;AF=0.529;AN=70;Base
50536	chrY	58987084	.	C	T	41636.11	PASS	AC=41;AF=0.586;AN=70;Base
50537	chrY	58987116	.	C	T	114.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50538	chrY	58987164	.	A	C	11731.42	PASS	AC=31;AF=0.443;AN=70;Base
50539	chrY	58987205	.	T	A	42310.72	PASS	AC=33;AF=0.471;AN=70;Base
50540	chrY	58987211	.	A	T	42693.72	PASS	AC=33;AF=0.471;AN=70;Base

50541	chrY	58987215	.	C	T	52315.56	PASS	AC=35;AF=0.500;AN=70;BaseQ
50542	chrY	58987237	.	A	G	47128.92	PASS	AC=34;AF=0.486;AN=70;BaseQ
50543	chrY	58987280	.	T	C	22451.83	PASS	AC=28;AF=0.412;AN=68;BaseQ
50544	chrY	58987302	.	A	G	31467.59	PASS	AC=28;AF=0.412;AN=68;BaseQ
50545	chrY	58987332	.	G	A	94.54	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50546	chrY	58987337	.	C	A	31582.94	PASS	AC=30;AF=0.441;AN=68;BaseQ
50547	chrY	58987349	.	T	C	23993.77	PASS	AC=32;AF=0.500;AN=64;BaseQ
50548	chrY	58987404	.	T	A	16713.76	PASS	AC=33;AF=0.471;AN=70;BaseQ
50549	chrY	58987482	.	C	G	61483.48	PASS	AC=42;AF=0.600;AN=70;BaseQ
50550	chrY	58987548	.	G	A	1364.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50551	chrY	58987557	.	T	C	93380.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
50552	chrY	58987559	.	G	A	95.10	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50553	chrY	58987560	.	T	C	93437.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
50554	chrY	58987571	.	C	T	2414.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50555	chrY	58987632	.	T	C	46029.49	PASS	AC=36;AF=0.514;AN=70;BaseQ
50556	chrY	58987664	.	C	T	18563.34	PASS	AC=33;AF=0.471;AN=70;BaseQ
50557	chrY	58987712	.	C	T	44579.82	PASS	AC=41;AF=0.586;AN=70;BaseQ
50558	chrY	58987875	.	A	G	219.44	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
50559	chrY	58987881	.	A	G	31149.95	PASS	AC=35;AF=0.547;AN=64;BaseQ
50560	chrY	58987904	.	G	A	26851.95	PASS	AC=34;AF=0.515;AN=66;BaseQ
50561	chrY	58987977	.	C	A	78.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50562	chrY	58987993	.	T	A,G	27326.48	PASS	AC=9,37;AF=0.129,0.529;AN=
50563	chrY	58988045	.	C	T	56159.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50564	chrY	58988049	.	G	A	215.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50565	chrY	58988071	.	T	C	84468.87	PASS	AC=36;AF=0.514;AN=70;BaseQ
50566	chrY	58988129	.	T	C	70862.01	PASS	AC=38;AF=0.543;AN=70;BaseQ
50567	chrY	58988134	.	C	T	109.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50568	chrY	58988174	.	T	C	58087.91	PASS	AC=36;AF=0.514;AN=70;BaseQ
50569	chrY	58988240	.	T	C	69180.73	PASS	AC=38;AF=0.543;AN=70;BaseQ
50570	chrY	58988280	.	C	T	71774.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50571	chrY	58988302	.	T	C	102049.62	PASS	AC=37;AF=0.529;AN=70;BaseQ
50572	chrY	58988354	.	G	A	7011.09	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50573	chrY	58988399	.	T	A	56.33	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50574	chrY	58988450	.	G	C,T	2333.45	PASS	AC=12,4;AF=0.194,0.065;AN=62;BaseQ
50575	chrY	58988459	.	G	A	393.30	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50576	chrY	58988480	.	C	T	97.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50577	chrY	58988482	.	G	A	745.06	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50578	chrY	58988483	.	C	T	1389.22	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50579	chrY	58988484	.	C	T	643.07	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum=
50580	chrY	58988488	.	T	A	753.88	PASS	AC=5;AF=0.078;AN=64;BaseQRankSum=
50581	chrY	58988498	.	T	G	911.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50582	chrY	58988510	.	G	T	2801.92	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50583	chrY	58988513	.	T	G	658.37	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50584	chrY	58988514	.	T	A	863.14	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50585	chrY	58988522	.	G	A	730.55	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50586	chrY	58988536	.	G	C	856.32	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
50587	chrY	58988537	.	T	A	93.18	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50588	chrY	58988539	.	G	C	448.15	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50589	chrY	58988544	.	G	T	324.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50590	chrY	58988552	.	C	G	332.21	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50591	chrY	58988561	.	G	T	106.38	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50592	chrY	58988562	.	C	T	7445.21	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
50593	chrY	58988563	.	C	T	150.99	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50594	chrY	58988574	.	C	T	68337.47	PASS	AC=43;AF=0.614;AN=70;BaseQ
50595	chrY	58988579	.	G	C	49204.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
50596	chrY	58988583	.	T	C	60.14	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50597	chrY	58988587	.	C	G	57.45	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50598	chrY	58988590	.	C	G	101.86	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50599	chrY	58988593	.	G	C	63.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50600	chrY	58988597	.	A	C	110.16	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50601	chrY	58988599	.	G	A	82.64	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50602	chrY	58988697	.	G	A	730.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50603	chrY	58988728	.	T	C	54683.65	PASS	AC=40;AF=0.571;AN=70;BaseQ
50604	chrY	58988765	.	G	A	244.51	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50605	chrY	58988811	.	C	T	30141.65	PASS	AC=41;AF=0.586;AN=70;BaseQ
50606	chrY	58988877	.	T	C	156.13	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50607	chrY	58988906	.	C	T	211.62	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50608	chrY	58988929	.	A	G	68.78	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50609	chrY	58988945	.	C	T	77.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50610	chrY	58988946	.	A	G	70.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50611	chrY	58989015	.	T	C	54179.85	PASS	AC=36;AF=0.514;AN=70;BaseQ
50612	chrY	58989017	.	G	C	235.07	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50613	chrY	58989072	.	C	G	110900.64	PASS	AC=38;AF=0.543;AN=70;BaseQ
50614	chrY	58989104	.	G	C	1745.11	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50615	chrY	58989150	.	C	T	11589.30	PASS	AC=19;AF=0.271;AN=70;BaseQ
50616	chrY	58989161	.	C	T	1170.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ

50617	chrY	58989209	.	G	A	48.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50618	chrY	58989221	.	T	C	388.28	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50619	chrY	58989287	.	T	A	145.46	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50620	chrY	58989309	.	G	A	2485.13	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50621	chrY	58989352	.	C	T	147.34	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
50622	chrY	58989359	.	C	A	106.67	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
50623	chrY	58989377	.	A	G	104.41	my_snp_filter	AC=1;AF=0.016;AN=64;BaseQ
50624	chrY	58989379	.	G	T	25511.99	PASS	AC=33;AF=0.516;AN=64;Base
50625	chrY	58989388	.	A	C	100.80	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
50626	chrY	58989402	.	C	A	102.79	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
50627	chrY	58989404	.	C	T	10009.35	PASS	AC=25;AF=0.403;AN=62;Base
50628	chrY	58989475	.	C	T	768.70	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum=
50629	chrY	58989515	.	G	A	19634.90	PASS	AC=36;AF=0.514;AN=70;Base
50630	chrY	58989573	.	C	G	18911.20	PASS	AC=39;AF=0.557;AN=70;Base
50631	chrY	58989590	.	C	G	325.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50632	chrY	58989688	.	A	G	36162.84	PASS	AC=36;AF=0.514;AN=70;Base
50633	chrY	58989734	.	T	C	37551.04	PASS	AC=37;AF=0.544;AN=68;Base
50634	chrY	58989794	.	A	C	20277.04	PASS	AC=34;AF=0.486;AN=70;Base
50635	chrY	58989899	.	T	C	2050.22	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
50636	chrY	58989923	.	G	T	1861.18	PASS	AC=9;AF=0.136;AN=66;BaseQRankSum=
50637	chrY	58989992	.	A	T	1314.08	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
50638	chrY	58989994	.	T	C,*	380.88	PASS	AC=5,3;AF=0.071,0.043;AN=70;BaseQ
50639	chrY	58990003	.	T	G,*	1096.33	PASS	AC=10,1;AF=0.143,0.014;AN=70;Base
50640	chrY	58990004	.	C	A,*	1105.95	PASS	AC=3,1;AF=0.043,0.014;AN=70;BaseQ
50641	chrY	58990012	.	G	T,*	741.09	PASS	AC=7,1;AF=0.103,0.015;AN=68;BaseQ
50642	chrY	58990021	.	A	G	264.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50643	chrY	58990054	.	G	A	3966.61	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
50644	chrY	58990057	.	C	T	48392.72	PASS	AC=35;AF=0.500;AN=70;Base
50645	chrY	58990060	.	T	C	56341.72	PASS	AC=35;AF=0.500;AN=70;Base
50646	chrY	58990080	.	C	T	4198.49	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
50647	chrY	58990085	.	C	T	86.09	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50648	chrY	58990119	.	T	C	35029.85	PASS	AC=36;AF=0.514;AN=70;Base
50649	chrY	58990160	.	G	C	2399.22	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
50650	chrY	58990179	.	A	G	337.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50651	chrY	58990185	.	G	T	104.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50652	chrY	58990264	.	G	T	76082.50	PASS	AC=36;AF=0.529;AN=68;Base
50653	chrY	58990316	.	A	C	98928.19	PASS	AC=35;AF=0.530;AN=66;Base
50654	chrY	58990318	.	C	T	26247.73	PASS	AC=33;AF=0.471;AN=70;Base
50655	chrY	58990368	.	A	G	69528.21	PASS	AC=36;AF=0.529;AN=68;Base
50656	chrY	58990426	.	T	C,*	18995.18	PASS	AC=34,1;AF=0.515,0.015;AN
50657	chrY	58990462	.	G	A	302.24	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
50658	chrY	58990464	.	G	T	3289.12	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
50659	chrY	58990465	.	T	G	323.24	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50660	chrY	58990497	.	C	G	111.07	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50661	chrY	58990577	.	T	A	112888.64	PASS	AC=44;AF=0.629;AN=70;Base
50662	chrY	58990589	.	G	A	113.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50663	chrY	58990590	.	C	G	108.93	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50664	chrY	58990607	.	T	G	45.69	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50665	chrY	58990620	.	C	T	591.37	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50666	chrY	58990648	.	C	G	77254.72	PASS	AC=35;AF=0.500;AN=70;Base
50667	chrY	58990651	.	C	G	77760.72	PASS	AC=35;AF=0.500;AN=70;Base
50668	chrY	58990652	.	C	T,A	159096.86	PASS	AC=35,35;AF=0.500,0.500;A
50669	chrY	58990713	.	T	A	15832.50	PASS	AC=20;AF=0.286;AN=70;Base
50670	chrY	58990720	.	G	C	14664.95	PASS	AC=20;AF=0.286;AN=70;Base
50671	chrY	58990733	.	C	T	96.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50672	chrY	58990744	.	G	A	6243.28	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
50673	chrY	58990785	.	C	T	138.26	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50674	chrY	58990786	.	A	C	140.38	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50675	chrY	58990793	.	G	A	29411.51	PASS	AC=34;AF=0.500;AN=68;Base
50676	chrY	58990828	.	G	A	815.72	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50677	chrY	58990870	.	T	C	18724.34	PASS	AC=33;AF=0.471;AN=70;Base
50678	chrY	58990876	.	G	A	39437.53	PASS	AC=34;AF=0.486;AN=70;Base
50679	chrY	58990908	.	G	A	909.22	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50680	chrY	58990925	.	C	G	1047.76	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50681	chrY	58990945	.	A	T	218.52	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50682	chrY	58990946	.	C	T	781.38	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50683	chrY	58990965	.	A	T	4396.24	PASS	AC=23;AF=0.359;AN=64;BaseQRankSum=
50684	chrY	58990975	.	C	T	101.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50685	chrY	58990986	.	C	T	371.91	PASS	AC=2;AF=0.056;AN=36;BaseQRankSum=
50686	chrY	58990993	.	T	A	1075.42	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50687	chrY	58990998	.	A	G	1690.32	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50688	chrY	58991002	.	A	T	751.82	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50689	chrY	58991003	.	T	C	620.12	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50690	chrY	58991005	.	G	C	343.60	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50691	chrY	58991085	.	G	T	2835.36	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50692	chrY	58991106	.	G	C	90476.55	PASS	AC=42;AF=0.600;AN=70;Base

50693	chrY	58991133	.	C	T	18918.86	PASS	AC=30;AF=0.429;AN=70;Base
50694	chrY	58991146	.	C	T,*	7244.50	PASS	AC=17,5;AF=0.243,0.071;AN=70;Base
50695	chrY	58991149	.	G	A,*	6811.66	PASS	AC=17,5;AF=0.250,0.074;AN=68;Base
50696	chrY	58991150	.	C	T,*	6606.66	PASS	AC=17,5;AF=0.250,0.074;AN=68;Base
50697	chrY	58991157	.	G	A,*	13162.51	PASS	AC=3,10;AF=0.043,0.143;AN
50698	chrY	58991170	.	G	A	35062.22	PASS	AC=32;AF=0.457;AN=70;Base
50699	chrY	58991215	.	T	G,C,*	14495.69	PASS	AC=10,3,17;AF=0.161,0.048
50700	chrY	58991235	.	T	A,*	12160.89	PASS	AC=7,11;AF=0.106,0.167;AN
50701	chrY	58991271	.	G	A,*	11242.51	PASS	AC=7,10;AF=0.146,0.208;AN
50702	chrY	58991283	.	C	G	1167.03	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
50703	chrY	58991288	.	G	A	114.02	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
50704	chrY	58991382	.	T	A	6527.12	PASS	AC=11;AF=0.167;AN=66;BaseQRankSum=
50705	chrY	58991412	.	T	C	43.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50706	chrY	58991415	.	C	G	42015.19	PASS	AC=34;AF=0.708;AN=48;Base
50707	chrY	58991417	.	T	C	37680.52	PASS	AC=31;AF=0.674;AN=46;Base
50708	chrY	58991432	.	G	A	1217.67	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum=
50709	chrY	58991465	.	G	A	39277.56	PASS	AC=30;AF=0.625;AN=48;Base
50710	chrY	58991544	.	G	A	49972.18	PASS	AC=32;AF=0.533;AN=60;Base
50711	chrY	58991576	.	C	G	18087.60	PASS	AC=22;AF=0.333;AN=66;Base
50712	chrY	58991580	.	C	T	35225.73	PASS	AC=28;AF=0.424;AN=66;Base
50713	chrY	58991603	.	T	C	86526.52	PASS	AC=37;AF=0.617;AN=60;Base
50714	chrY	58991667	.	G	A	75.45	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50715	chrY	58991696	.	G	A	38119.72	PASS	AC=35;AF=0.500;AN=70;Base
50716	chrY	58991713	.	A	T	90992.33	PASS	AC=38;AF=0.543;AN=70;Base
50717	chrY	58991721	.	T	C	20454.80	PASS	AC=32;AF=0.457;AN=70;Base
50718	chrY	58991754	.	A	G	77653.65	PASS	AC=39;AF=0.557;AN=70;Base
50719	chrY	58991812	.	C	T	80661.87	PASS	AC=45;AF=0.643;AN=70;Base
50720	chrY	58991857	.	A	C	4100.33	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
50721	chrY	58991871	.	G	A	3735.07	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
50722	chrY	58991884	.	G	C	4040.64	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
50723	chrY	58991942	.	T	A	30341.53	PASS	AC=34;AF=0.486;AN=70;Base
50724	chrY	58991992	.	C	T	93.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50725	chrY	58991999	.	C	T	5510.64	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
50726	chrY	58992000	.	G	C	65011.86	PASS	AC=51;AF=0.773;AN=66;Base
50727	chrY	58992052	.	C	G	28402.87	PASS	AC=31;AF=0.456;AN=68;Base
50728	chrY	58992073	.	C	A	311.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50729	chrY	58992082	.	G	C	73567.27	PASS	AC=34;AF=0.548;AN=62;Base
50730	chrY	58992091	.	G	C	73639.06	PASS	AC=31;AF=0.517;AN=60;Base
50731	chrY	58992107	.	G	C	15804.46	PASS	AC=26;AF=0.371;AN=70;Base
50732	chrY	58992113	.	T	C	29601.09	PASS	AC=29;AF=0.439;AN=66;Base
50733	chrY	58992138	.	C	A	68280.82	PASS	AC=37;AF=0.597;AN=62;Base
50734	chrY	58992145	.	G	C	5211.04	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
50735	chrY	58992216	.	A	T	38208.78	PASS	AC=33;AF=0.589;AN=56;Base
50736	chrY	58992250	.	G	A	19001.89	PASS	AC=21;AF=0.309;AN=68;Base
50737	chrY	58992269	.	A	T	78.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50738	chrY	58992273	.	C	A	448.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50739	chrY	58992283	.	G	A	24127.16	PASS	AC=23;AF=0.329;AN=70;Base
50740	chrY	58992369	.	C	T	1549.95	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50741	chrY	58992387	.	G	A	6790.51	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
50742	chrY	58992427	.	C	T	41221.57	PASS	AC=47;AF=0.691;AN=68;Base
50743	chrY	58992474	.	A	G	114.81	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50744	chrY	58992483	.	G	C	2016.33	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum=
50745	chrY	58992519	.	G	A	53.38	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50746	chrY	58992534	.	T	C	37.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50747	chrY	58992539	.	C	T	16085.32	PASS	AC=32;AF=0.471;AN=68;Base
50748	chrY	58992578	.	C	T	288.96	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50749	chrY	58992589	.	C	T	1390.75	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
50750	chrY	58992608	.	A	T	13544.42	PASS	AC=23;AF=0.329;AN=70;Base
50751	chrY	58992639	.	G	T	88779.62	PASS	AC=38;AF=0.559;AN=68;Base
50752	chrY	58992652	.	G	T	3374.58	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
50753	chrY	58992661	.	A	C	96823.85	PASS	AC=37;AF=0.578;AN=64;Base
50754	chrY	58992701	.	G	C	1438.73	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50755	chrY	58992715	.	T	G	98677	PASS	AC=38;AF=0.594;AN=64;BaseQRankSum=
50756	chrY	58992727	.	A	C	97244.37	PASS	AC=38;AF=0.594;AN=64;Base
50757	chrY	58992739	.	G	A	5235.62	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
50758	chrY	58992756	.	C	A	17350.84	PASS	AC=28;AF=0.400;AN=70;Base
50759	chrY	58992784	.	G	C	19309.48	PASS	AC=26;AF=0.371;AN=70;Base
50760	chrY	58992791	.	A	C,G	46456.90	PASS	AC=25,36;AF=0.357,0.514;A
50761	chrY	58992807	.	C	T	14354.78	PASS	AC=21;AF=0.300;AN=70;Base
50762	chrY	58992808	.	G	A	757.44	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50763	chrY	58992820	.	C	T	13246.18	PASS	AC=19;AF=0.288;AN=66;Base
50764	chrY	58992849	.	C	T	838.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50765	chrY	58992965	.	G	C	40.50	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50766	chrY	58992976	.	A	T	91946.97	PASS	AC=46;AF=0.657;AN=70;Base
50767	chrY	58992997	.	T	C	4999.19	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
50768	chrY	58993040	.	C	T	28048.19	PASS	AC=33;AF=0.471;AN=70;Base

50769	chrY	58993041	.	G	A	44786.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50770	chrY	58993081	.	C	T	160.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50771	chrY	58993115	.	A	G	93664.03	PASS	AC=46;AF=0.657;AN=70;BaseQ
50772	chrY	58993116	.	T	C	327.33	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50773	chrY	58993136	.	C	T	114.58	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50774	chrY	58993139	.	C	T	5355.99	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
50775	chrY	58993187	.	A	T	397.07	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
50776	chrY	58993202	.	C	T	662.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
50777	chrY	58993231	.	A	C	103050.32	PASS	AC=37;AF=0.529;AN=70;BaseQ
50778	chrY	58993266	.	C	A	13686.15	PASS	AC=30;AF=0.429;AN=70;BaseQ
50779	chrY	58993267	.	A	G	85189.75	PASS	AC=35;AF=0.500;AN=70;BaseQ
50780	chrY	58993334	.	A	G	19288.41	PASS	AC=31;AF=0.443;AN=70;BaseQ
50781	chrY	58993336	.	G	T	18503.88	PASS	AC=30;AF=0.429;AN=70;BaseQ
50782	chrY	58993342	.	C	T	94.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
50783	chrY	58993369	.	A	G	249.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50784	chrY	58993407	.	C	A	198.67	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50785	chrY	58993444	.	T	C	41563.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50786	chrY	58993461	.	C	T	48.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50787	chrY	58993471	.	C	T	10805.82	PASS	AC=31;AF=0.443;AN=70;BaseQ
50788	chrY	58993483	.	A	T	52470.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50789	chrY	58993501	.	A	C	114757.03	PASS	AC=48;AF=0.686;AN=70;BaseQ
50790	chrY	58993520	.	G	A	77.01	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50791	chrY	58993533	.	T	G	4351.97	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
50792	chrY	58993538	.	G	A	121.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50793	chrY	58993561	.	G	C	4422.18	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
50794	chrY	58993574	.	A	G	67516.85	PASS	AC=43;AF=0.614;AN=70;BaseQ
50795	chrY	58993616	.	C	T	4254.45	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
50796	chrY	58993619	.	A	C	65966.59	PASS	AC=43;AF=0.614;AN=70;BaseQ
50797	chrY	58993663	.	A	T	74795.59	PASS	AC=43;AF=0.614;AN=70;BaseQ
50798	chrY	58993701	.	A	G	4798.97	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
50799	chrY	58993825	.	T	G	97278.28	PASS	AC=41;AF=0.586;AN=70;BaseQ
50800	chrY	58993862	.	G	A	464.55	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50801	chrY	58993874	.	T	C	17289.48	PASS	AC=33;AF=0.471;AN=70;BaseQ
50802	chrY	58993896	.	A	G	39.23	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50803	chrY	58993939	.	T	A	43610.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50804	chrY	58993952	.	C	T	41461.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50805	chrY	58993961	.	C	T	57.06	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50806	chrY	58993998	.	G	T	17913.69	PASS	AC=30;AF=0.429;AN=70;BaseQ
50807	chrY	58994017	.	C	A	212.83	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
50808	chrY	58994045	.	C	T	8237.69	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
50809	chrY	58994075	.	T	C	47361.51	PASS	AC=46;AF=0.719;AN=64;BaseQ
50810	chrY	58994096	.	G	A	15673.69	PASS	AC=29;AF=0.426;AN=68;BaseQ
50811	chrY	58994137	.	G	A	482.37	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQ
50812	chrY	58994176	.	C	T	57.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
50813	chrY	58994218	.	A	G	791.51	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
50814	chrY	58994234	.	G	C	27762.05	PASS	AC=29;AF=0.414;AN=70;BaseQ
50815	chrY	58994250	.	G	C,T	62147.59	PASS	AC=34,6;AF=0.515,0.091;AN=
50816	chrY	58994251	.	C	G	25359.28	PASS	AC=32;AF=0.485;AN=66;BaseQ
50817	chrY	58994259	.	T	G	66371.07	PASS	AC=34;AF=0.515;AN=66;BaseQ
50818	chrY	58994303	.	A	G	57208.03	PASS	AC=39;AF=0.557;AN=70;BaseQ
50819	chrY	58994390	.	G	T	3242.23	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
50820	chrY	58994392	.	T	A	96375.07	PASS	AC=46;AF=0.657;AN=70;BaseQ
50821	chrY	58994438	.	G	T	3888.72	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
50822	chrY	58994449	.	C	T	56972.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
50823	chrY	58994473	.	G	T	39.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50824	chrY	58994479	.	G	A	337.29	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50825	chrY	58994560	.	C	T	42493.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50826	chrY	58994577	.	A	G	60773.84	PASS	AC=36;AF=0.514;AN=70;BaseQ
50827	chrY	58994612	.	T	A	307.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
50828	chrY	58994657	.	C	T	122.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
50829	chrY	58994666	.	G	T	3395.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
50830	chrY	58994686	.	T	C	56537.72	PASS	AC=33;AF=0.471;AN=70;BaseQ
50831	chrY	58994777	.	G	T	1282.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50832	chrY	58994783	.	G	A	1379.82	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50833	chrY	58994787	.	T	C	1564.33	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50834	chrY	58994804	.	C	T	12963	PASS	AC=28;AF=0.412;AN=68;BaseQRankSum
50835	chrY	58994811	.	G	A	3307.30	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
50836	chrY	58994814	.	G	A	59.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
50837	chrY	58994815	.	T	A	1905.27	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
50838	chrY	58994817	.	G	A	2045.70	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
50839	chrY	58994825	.	C	T	76575.72	PASS	AC=41;AF=0.621;AN=66;BaseQ
50840	chrY	58994828	.	C	T	2238.77	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
50841	chrY	58994857	.	C	G	3320.21	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
50842	chrY	58994859	.	T	C	57141.22	PASS	AC=33;AF=0.500;AN=66;BaseQ
50843	chrY	58994877	.	C	A	494.96	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50844	chrY	58994879	.	A	G	944.60	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum

50845	chrY	58994882	.	T	C	28971.51	PASS	AC=33;AF=0.485;AN=68;BaseQ
50846	chrY	58994892	.	G	C	679.45	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50847	chrY	58994901	.	G	T	263.31	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
50848	chrY	58994906	.	G	A	202.25	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50849	chrY	58994967	.	G	A	62.07	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50850	chrY	58995039	.	A	T	34525.24	PASS	AC=24;AF=0.375;AN=64;BaseQ
50851	chrY	58995050	.	G	A	10737.09	PASS	AC=19;AF=0.279;AN=68;BaseQ
50852	chrY	58995119	.	A	G	21332.70	PASS	AC=16;AF=0.235;AN=68;BaseQ
50853	chrY	58995120	.	G	A	579.05	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50854	chrY	58995123	.	A	G,T	16270.34	PASS	AC=12,3;AF=0.171,0.043;AN=
50855	chrY	58995130	.	T	C	20592.47	PASS	AC=14;AF=0.200;AN=70;BaseQ
50856	chrY	58995131	.	G	A	5938.08	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50857	chrY	58995146	.	C	T	19404.54	PASS	AC=13;AF=0.186;AN=70;BaseQ
50858	chrY	58995191	.	T	A	11797.90	PASS	AC=9;AF=0.129;AN=70;BaseQ
50859	chrY	58995193	.	T	C	3683.27	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50860	chrY	58995194	.	G	C,*	4067.22	PASS	AC=8,1;AF=0.114,0.014;AN=70;BaseQ
50861	chrY	58995228	.	T	C	10750.13	PASS	AC=10;AF=0.179;AN=56;BaseQ
50862	chrY	58995230	.	A	G	8810.89	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
50863	chrY	58995240	.	G	A	13408.33	PASS	AC=13;AF=0.433;AN=30;BaseQ
50864	chrY	58995256	.	G	A	974.30	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50865	chrY	58995257	.	G	A	120.02	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50866	chrY	58995301	.	T	C	810.58	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50867	chrY	58995320	.	A	G	817.52	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50868	chrY	58995395	.	T	C	148172.20	PASS	AC=37;AF=0.529;AN=70;BaseQ
50869	chrY	58995396	.	C	A	151608.20	PASS	AC=37;AF=0.529;AN=70;BaseQ
50870	chrY	58995406	.	T	A	146314.64	PASS	AC=38;AF=0.543;AN=70;BaseQ
50871	chrY	58995481	.	G	A	30338.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
50872	chrY	58995488	.	T	A	1275.15	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
50873	chrY	58995514	.	A	C	68.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50874	chrY	58995532	.	G	A	173.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50875	chrY	58995560	.	C	T	3443.01	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
50876	chrY	58995584	.	C	T	27653.19	PASS	AC=33;AF=0.471;AN=70;BaseQ
50877	chrY	58995619	.	G	T	798.45	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50878	chrY	58995637	.	T	A	134406.72	PASS	AC=50;AF=0.714;AN=70;BaseQ
50879	chrY	58995687	.	C	T	6710.01	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50880	chrY	58995698	.	T	C	163.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50881	chrY	58995714	.	T	A	51.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50882	chrY	58995720	.	T	A	169648.03	PASS	AC=44;AF=0.629;AN=70;BaseQ
50883	chrY	58995738	.	C	G	30662.54	PASS	AC=32;AF=0.457;AN=70;BaseQ
50884	chrY	58995754	.	C	T	176535.61	PASS	AC=41;AF=0.586;AN=70;BaseQ
50885	chrY	58995774	.	G	C	102820.40	PASS	AC=36;AF=0.514;AN=70;BaseQ
50886	chrY	58995775	.	G	A	5972.78	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
50887	chrY	58995849	.	A	T	1958.21	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50888	chrY	58995859	.	A	G	2511.98	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
50889	chrY	58995866	.	T	C	98890.63	PASS	AC=43;AF=0.614;AN=70;BaseQ
50890	chrY	58995907	.	G	T	1592.84	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
50891	chrY	58995921	.	T	G	59146.55	PASS	AC=41;AF=0.586;AN=70;BaseQ
50892	chrY	58995970	.	A	C	36644.48	PASS	AC=38;AF=0.543;AN=70;BaseQ
50893	chrY	58995983	.	A	T,*	622.69	my_snp_filter	AC=1,4;AF=0.014,0.057;AN=
50894	chrY	58996011	.	G	A	291.13	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50895	chrY	58996099	.	T	C	3440.52	my_snp_filter	AC=15;AF=0.250;AN=60;BaseQ
50896	chrY	58996164	.	T	C	3663.70	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
50897	chrY	58996217	.	G	A	230.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50898	chrY	58996230	.	G	A	91350.03	PASS	AC=31;AF=0.500;AN=62;BaseQ
50899	chrY	58996233	.	T	C	1389.89	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50900	chrY	58996237	.	C	T	13384.70	PASS	AC=21;AF=0.300;AN=70;BaseQ
50901	chrY	58996244	.	A	C	2064.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50902	chrY	58996247	.	C	T	2063.13	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50903	chrY	58996262	.	C	A	76668.66	PASS	AC=31;AF=0.500;AN=62;BaseQ
50904	chrY	58996305	.	C	T	99.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50905	chrY	58996306	.	A	C	13541.98	PASS	AC=23;AF=0.371;AN=62;BaseQ
50906	chrY	58996326	.	A	G	387	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
50907	chrY	58996384	.	A	C	33437.85	PASS	AC=37;AF=0.529;AN=70;BaseQ
50908	chrY	58996402	.	G	T	571.62	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50909	chrY	58996427	.	T	G	17363.78	PASS	AC=30;AF=0.441;AN=68;BaseQ
50910	chrY	58996430	.	G	C	7554.21	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
50911	chrY	58996436	.	A	T	31901.51	PASS	AC=45;AF=0.682;AN=66;BaseQ
50912	chrY	58996461	.	G	C,*	691.72	PASS	AC=6,1;AF=0.086,0.014;AN=70;BaseQ
50913	chrY	58996514	.	T	C	1547.32	PASS	AC=12;AF=0.176;AN=68;BaseQRankSum=
50914	chrY	58996521	.	T	C	9500.10	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
50915	chrY	58996536	.	C	A	927.30	my_snp_filter	AC=10;AF=0.152;AN=66;BaseQ
50916	chrY	58996543	.	A	T	513.52	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
50917	chrY	58996552	.	C	T	123.30	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
50918	chrY	58996567	.	T	A	3068.20	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
50919	chrY	58996578	.	T	C	58.80	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
50920	chrY	58996608	.	G	A,T	17504.76	PASS	AC=30,2;AF=0.429,0.029;AN=

50921	chrY	58996613	.	G	T	1791	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50922	chrY	58996629	.	A	G	52087.92	PASS	AC=36;AF=0.514;AN=70;Base
50923	chrY	58996685	.	G	C	4623.21	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
50924	chrY	58996716	.	T	C	72679.74	PASS	AC=46;AF=0.657;AN=70;Base
50925	chrY	58996823	.	G	A	67.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50926	chrY	58996861	.	C	T	10138.44	PASS	AC=15;AF=0.214;AN=70;Base
50927	chrY	58996863	.	A	G	127354.65	PASS	AC=52;AF=0.743;AN=70;Base
50928	chrY	58996875	.	C	G	3742.54	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
50929	chrY	58996880	.	C	T	7918.86	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
50930	chrY	58996883	.	G	A	9032.23	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
50931	chrY	58996968	.	G	A	325.06	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50932	chrY	58996974	.	C	T	3030.94	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
50933	chrY	58996976	.	A	T	46.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50934	chrY	58996978	.	G	A	140.95	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50935	chrY	58996987	.	C	T	123.51	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
50936	chrY	58996989	.	C	T	157.60	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50937	chrY	58996993	.	T	C	132.95	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50938	chrY	58996994	.	C	A	180.88	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50939	chrY	58996995	.	A	T	117.81	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50940	chrY	58997001	.	G	T	33.46	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50941	chrY	58997006	.	G	A	184.69	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50942	chrY	58997011	.	T	A	2291.13	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
50943	chrY	58997022	.	C	A	87.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50944	chrY	58997031	.	C	T	113.65	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50945	chrY	58997034	.	T	A	139.94	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
50946	chrY	58997050	.	C	T	251.82	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
50947	chrY	58997056	.	C	A	30348.25	PASS	AC=34;AF=0.486;AN=70;Base
50948	chrY	58997059	.	G	A	357.94	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50949	chrY	58997064	.	A	T	6535.72	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
50950	chrY	58997068	.	G	A	4766.27	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
50951	chrY	58997069	.	G	T	386.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50952	chrY	58997123	.	C	T	361.55	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50953	chrY	58997124	.	A	C	361.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50954	chrY	58997130	.	T	A	277.17	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
50955	chrY	58997142	.	G	A	2319	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
50956	chrY	58997143	.	T	G,A	102411.23	PASS	AC=34,1;AF=0.500,0.015;AN
50957	chrY	58997151	.	T	A	69.71	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50958	chrY	58997178	.	T	C	20842.26	PASS	AC=32;AF=0.457;AN=70;Base
50959	chrY	58997180	.	A	G	3033.73	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
50960	chrY	58997192	.	C	A	113600.77	PASS	AC=34;AF=0.515;AN=66;Base
50961	chrY	58997194	.	T	G	114107.65	PASS	AC=33;AF=0.500;AN=66;Base
50962	chrY	58997209	.	T	C	104545.62	PASS	AC=33;AF=0.500;AN=66;Base
50963	chrY	58997225	.	G	A,T	1997.70	PASS	AC=10,2;AF=0.143,0.029;AN=70;Base
50964	chrY	58997231	.	C	A	84276.76	PASS	AC=34;AF=0.515;AN=66;Base
50965	chrY	58997249	.	A	G	2096.38	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
50966	chrY	58997323	.	G	C	45255.31	PASS	AC=39;AF=0.557;AN=70;Base
50967	chrY	58997335	.	C	A	182.35	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
50968	chrY	58997365	.	G	C	1674.22	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
50969	chrY	58997366	.	C	T	674.96	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
50970	chrY	58997373	.	T	G	66925.51	PASS	AC=36;AF=0.514;AN=70;Base
50971	chrY	58997374	.	G	A	308.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50972	chrY	58997398	.	G	T	61511.08	PASS	AC=36;AF=0.514;AN=70;Base
50973	chrY	58997405	.	C	T	1120.95	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
50974	chrY	58997447	.	T	A	153.59	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
50975	chrY	58997506	.	G	A	1053.27	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
50976	chrY	58997530	.	G	A	248.55	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
50977	chrY	58997561	.	C	A	5607.40	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
50978	chrY	58997577	.	G	A	197.61	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
50979	chrY	58997614	.	G	T	86446.20	PASS	AC=36;AF=0.514;AN=70;Base
50980	chrY	58997638	.	T	A	31436.53	PASS	AC=34;AF=0.486;AN=70;Base
50981	chrY	58997662	.	C	T	101.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50982	chrY	58997667	.	A	C	112692.76	PASS	AC=35;AF=0.500;AN=70;Base
50983	chrY	58997679	.	C	G	109427.72	PASS	AC=35;AF=0.500;AN=70;Base
50984	chrY	58997705	.	C	T	164.55	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
50985	chrY	58997744	.	A	C	47728.28	PASS	AC=38;AF=0.543;AN=70;Base
50986	chrY	58997864	.	A	G	9901.89	PASS	AC=14;AF=0.250;AN=56;BaseQRankSum
50987	chrY	58997870	.	C	G	576.14	PASS	AC=3;AF=0.047;AN=64;BaseQRankSum=
50988	chrY	58997968	.	G	A	8297.47	PASS	AC=11;AF=0.367;AN=30;BaseQRankSum
50989	chrY	58997988	.	C	T	41572.22	PASS	AC=18;AF=0.750;AN=24;Base
50990	chrY	58998007	.	C	T	43616.25	PASS	AC=17;AF=0.773;AN=22;Base
50991	chrY	58998026	.	A	C	39810.31	PASS	AC=20;AF=0.833;AN=24;Base
50992	chrY	58998055	.	T	C	13626.54	PASS	AC=11;AF=0.458;AN=24;Base
50993	chrY	58998110	.	G	T	35047.16	PASS	AC=26;AF=1.00;AN=26;BaseQ
50994	chrY	58998125	.	A	G	555.20	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
50995	chrY	58998189	.	T	C	35.49	my_snp_filter	AC=2;AF=0.059;AN=34;BaseQ
50996	chrY	58998216	.	G	A	7668.11	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=

50997	chrY	58998283	.	A	G	13844.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
50998	chrY	58998351	.	C	T	13699.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
50999	chrY	58998370	.	G	C	45.30	my_snp_filter	AC=2;AF=0.100;AN=20;BaseQ
51000	chrY	58998387	.	A	G	1018.24	PASS	AC=3;AF=0.150;AN=20;BaseQRankSum=
51001	chrY	58998404	.	A	C	40993.95	PASS	AC=14;AF=0.778;AN=18;Base
51002	chrY	58998447	.	G	A	257.32	PASS	AC=1;AF=0.056;AN=18;BaseQRankSum=
51003	chrY	58998467	.	T	C	39153.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
51004	chrY	58998482	.	C	T	42924.07	PASS	AC=9;AF=0.450;AN=20;BaseQ
51005	chrY	58998532	.	A	G	27753.05	PASS	AC=13;AF=0.650;AN=20;Base
51006	chrY	58998560	.	A	C	537.26	PASS	AC=1;AF=0.045;AN=22;BaseQRankSum=
51007	chrY	58998596	.	C	T	20408.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
51008	chrY	58998597	.	A	G	45264.69	PASS	AC=12;AF=0.667;AN=18;Base
51009	chrY	58998616	.	T	C	8113.56	PASS	AC=8;AF=0.364;AN=22;BaseQRankSum=
51010	chrY	58998661	.	A	T	28071.44	PASS	AC=14;AF=0.700;AN=20;Base
51011	chrY	58998746	.	G	T	1821.50	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
51012	chrY	58998752	.	A	G	260.16	my_snp_filter	AC=2;AF=0.048;AN=42;BaseQ
51013	chrY	58998782	.	C	A	27178.19	PASS	AC=11;AF=0.393;AN=28;Base
51014	chrY	58998803	.	G	A	26961.29	PASS	AC=12;AF=0.375;AN=32;Base
51015	chrY	58998828	.	T	C	52114.06	PASS	AC=29;AF=0.967;AN=30;Base
51016	chrY	58998911	.	T	A	31367.79	PASS	AC=21;AF=0.875;AN=24;Base
51017	chrY	58998959	.	A	G	458.41	PASS	AC=1;AF=0.036;AN=28;BaseQRankSum=
51018	chrY	58999075	.	T	C	1428.69	PASS	AC=4;AF=0.167;AN=24;BaseQRankSum=
51019	chrY	58999106	.	T	A	42147.35	PASS	AC=13;AF=0.591;AN=22;Base
51020	chrY	58999110	.	A	G	9502.44	PASS	AC=9;AF=0.300;AN=30;BaseQRankSum=
51021	chrY	58999130	.	A	C	503	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
51022	chrY	58999137	.	G	A	57.90	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
51023	chrY	58999155	.	G	A	3124.70	PASS	AC=7;AF=0.250;AN=28;BaseQRankSum=
51024	chrY	58999168	.	A	T	36174.18	PASS	AC=15;AF=0.682;AN=22;Base
51025	chrY	58999215	.	C	G	11907.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
51026	chrY	58999265	.	A	C	527.90	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
51027	chrY	58999272	.	A	C	6474.27	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
51028	chrY	58999284	.	G	A	6882.50	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
51029	chrY	58999300	.	T	C	3737.87	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
51030	chrY	58999301	.	G	T	3743.75	PASS	AC=4;AF=0.143;AN=28;BaseQRankSum=
51031	chrY	58999396	.	G	T	16651.04	PASS	AC=13;AF=0.500;AN=26;Base
51032	chrY	58999470	.	A	T	15453.19	PASS	AC=9;AF=0.321;AN=28;BaseQ
51033	chrY	58999540	.	T	G	475.06	PASS	AC=1;AF=0.031;AN=32;BaseQRankSum=
51034	chrY	58999569	.	A	G	1876.30	my_snp_filter	AC=6;AF=0.188;AN=32;BaseQ
51035	chrY	58999570	.	A	G	1120.24	PASS	AC=3;AF=0.088;AN=34;BaseQRankSum=
51036	chrY	58999578	.	C	A	1165.74	PASS	AC=3;AF=0.079;AN=38;BaseQRankSum=
51037	chrY	58999661	.	G	A	82.55	my_snp_filter	AC=1;AF=0.036;AN=28;BaseQ
51038	chrY	58999713	.	C	A	14071.84	PASS	AC=9;AF=0.375;AN=24;BaseQ
51039	chrY	58999753	.	G	T	5981.71	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
51040	chrY	58999765	.	C	T	52811.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
51041	chrY	58999773	.	G	A	52934.52	PASS	AC=9;AF=0.450;AN=20;BaseQ
51042	chrY	58999830	.	C	T	6363.68	PASS	AC=9;AF=0.321;AN=28;BaseQRankSum=
51043	chrY	58999876	.	T	G	28198.94	PASS	AC=13;AF=0.500;AN=26;Base
51044	chrY	58999877	.	C	A	28201.97	PASS	AC=13;AF=0.542;AN=24;Base
51045	chrY	58999883	.	G	C	43654.89	PASS	AC=21;AF=0.875;AN=24;Base
51046	chrY	58999937	.	T	A	29255.95	PASS	AC=15;AF=0.469;AN=32;Base
51047	chrY	58999939	.	G	C	29258.95	PASS	AC=15;AF=0.469;AN=32;Base
51048	chrY	59000025	.	G	A	873.80	my_snp_filter	AC=4;AF=0.143;AN=28;BaseQ
51049	chrY	59000043	.	C	T	3408.70	PASS	AC=9;AF=0.346;AN=26;BaseQRankSum=
51050	chrY	59000064	.	C	T	41.78	my_snp_filter	AC=1;AF=0.038;AN=26;BaseQ
51051	chrY	59000107	.	A	G	395.42	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
51052	chrY	59000116	.	G	A	14075.70	PASS	AC=9;AF=0.346;AN=26;BaseQ
51053	chrY	59000168	.	G	T	30186.27	PASS	AC=10;AF=0.455;AN=22;Base
51054	chrY	59000230	.	A	C	5273.19	PASS	AC=8;AF=0.308;AN=26;BaseQRankSum=
51055	chrY	59000265	.	A	C	36466.57	PASS	AC=14;AF=0.636;AN=22;Base
51056	chrY	59000266	.	C	T	861.93	PASS	AC=2;AF=0.083;AN=24;BaseQRankSum=
51057	chrY	59000277	.	C	A	827.39	PASS	AC=2;AF=0.077;AN=26;BaseQRankSum=
51058	chrY	59000333	.	C	T	116.30	my_snp_filter	AC=1;AF=0.050;AN=20;BaseQ
51059	chrY	59000344	.	G	A	2167.82	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
51060	chrY	59000347	.	G	A	52013.19	PASS	AC=14;AF=0.700;AN=20;Base
51061	chrY	59000349	.	A	T	15475.19	PASS	AC=10;AF=0.500;AN=20;Base
51062	chrY	59000354	.	A	C	27994.89	PASS	AC=9;AF=0.409;AN=22;BaseQ
51063	chrY	59000362	.	G	A	5768.94	PASS	AC=9;AF=0.409;AN=22;BaseQRankSum=
51064	chrY	59000369	.	G	T	27324.73	PASS	AC=9;AF=0.375;AN=24;BaseQ
51065	chrY	59000453	.	T	G	117.52	my_snp_filter	AC=2;AF=0.083;AN=24;BaseQ
51066	chrY	59000468	.	C	T	1329.19	PASS	AC=2;AF=0.091;AN=22;BaseQRankSum=
51067	chrY	59000473	.	A	G	37594.12	PASS	AC=15;AF=0.750;AN=20;Base
51068	chrY	59000479	.	G	C	1327.82	my_snp_filter	AC=6;AF=0.250;AN=24;BaseQ
51069	chrY	59000538	.	C	A	358.96	PASS	AC=1;AF=0.038;AN=26;BaseQRankSum=
51070	chrY	59000554	.	G	C	295.84	my_snp_filter	AC=1;AF=0.033;AN=30;BaseQ
51071	chrY	59000648	.	C	T	2226.83	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
51072	chrY	59000675	.	C	T	29887.35	PASS	AC=21;AF=0.808;AN=26;Base

51073	chrY	59000701	.	G	A	13599.99	PASS	AC=9;AF=0.409;AN=22;BaseQ
51074	chrY	59000744	.	A	G	27069.28	PASS	AC=12;AF=0.600;AN=20;Base
51075	chrY	59000777	.	T	G	3616.98	PASS	AC=6;AF=0.300;AN=20;BaseQRankSum=
51076	chrY	59000802	.	A	C	21087.74	PASS	AC=12;AF=0.600;AN=20;Base
51077	chrY	59000814	.	G	A	7954.59	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
51078	chrY	59000886	.	A	T	14241.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
51079	chrY	59000922	.	A	G	34829.09	PASS	AC=9;AF=0.500;AN=18;BaseQ
51080	chrY	59000924	.	A	G	5636.24	PASS	AC=6;AF=0.333;AN=18;BaseQRankSum=
51081	chrY	59000935	.	T	G	35996.53	PASS	AC=10;AF=0.556;AN=18;Base
51082	chrY	59000966	.	C	T	439.64	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
51083	chrY	59000972	.	A	T	14045.67	PASS	AC=13;AF=0.500;AN=26;Base
51084	chrY	59000983	.	G	A	40074.61	PASS	AC=23;AF=0.885;AN=26;Base
51085	chrY	59000986	.	G	A	512.11	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
51086	chrY	59001054	.	C	A	2724.28	my_snp_filter	AC=7;AF=0.233;AN=30;BaseQ
51087	chrY	59001055	.	G	T	13800.21	PASS	AC=12;AF=0.375;AN=32;Base
51088	chrY	59001061	.	G	A	16028.55	PASS	AC=13;AF=0.382;AN=34;Base
51089	chrY	59001068	.	G	T	1820.84	PASS	AC=8;AF=0.222;AN=36;BaseQRankSum=
51090	chrY	59001069	.	T	C	13626.53	PASS	AC=12;AF=0.333;AN=36;Base
51091	chrY	59001077	.	T	C	57215.41	PASS	AC=18;AF=0.692;AN=26;Base
51092	chrY	59001095	.	C	A	54275.94	PASS	AC=17;AF=0.708;AN=24;Base
51093	chrY	59001114	.	C	T	73.49	my_snp_filter	AC=4;AF=0.133;AN=30;BaseQ
51094	chrY	59001115	.	G	A	326.17	my_snp_filter	AC=2;AF=0.063;AN=32;BaseQ
51095	chrY	59001134	.	C	A	10163.79	PASS	AC=12;AF=0.353;AN=34;Base
51096	chrY	59001211	.	A	G	31123.93	PASS	AC=21;AF=0.875;AN=24;Base
51097	chrY	59001276	.	C	T	143.65	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
51098	chrY	59001292	.	A	G	33196.62	PASS	AC=39;AF=0.929;AN=42;Base
51099	chrY	59001332	.	T	G	35354.93	PASS	AC=41;AF=0.759;AN=54;Base
51100	chrY	59001381	.	A	T	69485.85	PASS	AC=37;AF=0.561;AN=66;Base
51101	chrY	59001383	.	A	T	52093.91	PASS	AC=31;AF=0.484;AN=64;Base
51102	chrY	59001384	.	A	T	38465.64	PASS	AC=31;AF=0.484;AN=64;Base
51103	chrY	59001406	.	A	G	200.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51104	chrY	59001429	.	G	A	46884.21	PASS	AC=33;AF=0.471;AN=70;Base
51105	chrY	59001437	.	C	G	9635.82	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
51106	chrY	59001438	.	A	G	9895.94	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
51107	chrY	59001440	.	T	A	10569.94	PASS	AC=21;AF=0.300;AN=70;Base
51108	chrY	59001450	.	G	A	48652.19	PASS	AC=33;AF=0.471;AN=70;Base
51109	chrY	59001455	.	C	A	11988.94	PASS	AC=21;AF=0.300;AN=70;Base
51110	chrY	59001467	.	T	G	13020.94	PASS	AC=21;AF=0.300;AN=70;Base
51111	chrY	59001472	.	G	A,T	15638.34	PASS	AC=9,19;AF=0.129,0.271;AN
51112	chrY	59001482	.	C	G	13190.94	PASS	AC=21;AF=0.300;AN=70;Base
51113	chrY	59001494	.	T	C	5537.27	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
51114	chrY	59001500	.	C	A	605.65	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51115	chrY	59001501	.	G	A	11661.09	PASS	AC=19;AF=0.271;AN=70;Base
51116	chrY	59001513	.	G	A	2587.46	my_snp_filter	AC=12;AF=0.171;AN=70;Base
51117	chrY	59001515	.	T	C,*	3897.01	my_snp_filter	AC=2,13;AF=0.029,0.186;AN
51118	chrY	59001527	.	G	A	7730.95	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
51119	chrY	59001533	.	C	T	842.22	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51120	chrY	59001534	.	A	G	9954.34	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
51121	chrY	59001543	.	C	T	731.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51122	chrY	59001546	.	C	A	8779.76	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
51123	chrY	59001552	.	G	C	2969.59	my_snp_filter	AC=13;AF=0.186;AN=70;Base
51124	chrY	59001559	.	G	A	1559.82	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
51125	chrY	59001564	.	T	C	340.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51126	chrY	59001565	.	A	C	4187.46	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
51127	chrY	59001575	.	C	A	195.28	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51128	chrY	59001576	.	G	A	2175.32	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51129	chrY	59001595	.	A	T	786.11	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51130	chrY	59001599	.	T	A	647.25	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51131	chrY	59001604	.	G	A	3738.90	my_snp_filter	AC=20;AF=0.286;AN=70;Base
51132	chrY	59001606	.	G	A	36.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51133	chrY	59001608	.	C	T	18736.77	PASS	AC=35;AF=0.500;AN=70;Base
51134	chrY	59001610	.	A	T	437.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
51135	chrY	59001620	.	A	C	112267.85	PASS	AC=51;AF=0.729;AN=70;Base
51136	chrY	59001630	.	A	T	5724.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51137	chrY	59001635	.	G	A	7251.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51138	chrY	59001636	.	T	C	7433.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51139	chrY	59001639	.	T	A	8030.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51140	chrY	59001647	.	G	A	45426.72	PASS	AC=35;AF=0.500;AN=70;Base
51141	chrY	59001661	.	T	C	15122.24	PASS	AC=9;AF=0.129;AN=70;BaseQ
51142	chrY	59001662	.	T	A	15143.53	PASS	AC=9;AF=0.129;AN=70;BaseQ
51143	chrY	59001672	.	G	T	16885.94	PASS	AC=9;AF=0.129;AN=70;BaseQ
51144	chrY	59001673	.	G	T	16966.10	PASS	AC=9;AF=0.129;AN=70;BaseQ
51145	chrY	59001677	.	C	A,G	17942.73	PASS	AC=3,9;AF=0.043,0.129;AN=
51146	chrY	59001685	.	G	C	7300.64	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
51147	chrY	59001697	.	T	C	20628.12	PASS	AC=9;AF=0.129;AN=70;BaseQ
51148	chrY	59001698	.	G	A	20634.96	PASS	AC=9;AF=0.129;AN=70;BaseQ

51149	chrY	59001722	.	G	A	22942.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
51150	chrY	59001753	.	T	C	139867.72	PASS	AC=44;AF=0.629;AN=70;BaseQ
51151	chrY	59001758	.	A	G	14894.70	PASS	AC=10;AF=0.143;AN=70;BaseQ
51152	chrY	59001760	.	G	T	14580.65	PASS	AC=11;AF=0.157;AN=70;BaseQ
51153	chrY	59001766	.	G	C	549.98	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51154	chrY	59001773	.	A	C	35827.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51155	chrY	59001777	.	A	G	12409.53	PASS	AC=9;AF=0.129;AN=70;BaseQ
51156	chrY	59001787	.	G	A	338.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
51157	chrY	59001791	.	G	A	11551.01	PASS	AC=10;AF=0.143;AN=70;BaseQ
51158	chrY	59001792	.	T	C	160632.88	PASS	AC=38;AF=0.543;AN=70;BaseQ
51159	chrY	59001795	.	A	C	133.41	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51160	chrY	59001802	.	T	C	31456.86	PASS	AC=35;AF=0.500;AN=70;BaseQ
51161	chrY	59001808	.	T	C	10533.24	PASS	AC=9;AF=0.129;AN=70;BaseQ
51162	chrY	59001833	.	G	A	9524.76	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51163	chrY	59001842	.	A	G	295.92	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51164	chrY	59001848	.	G	C	10272.53	PASS	AC=9;AF=0.129;AN=70;BaseQ
51165	chrY	59001853	.	G	A	10794.57	PASS	AC=7;AF=0.100;AN=70;BaseQ
51166	chrY	59001865	.	G	A	11837.77	PASS	AC=7;AF=0.100;AN=70;BaseQ
51167	chrY	59001872	.	A	T	12273.76	PASS	AC=7;AF=0.100;AN=70;BaseQ
51168	chrY	59001873	.	A	C	38108.19	PASS	AC=33;AF=0.471;AN=70;BaseQ
51169	chrY	59001874	.	G	A	33040.64	PASS	AC=31;AF=0.443;AN=70;BaseQ
51170	chrY	59001887	.	G	A	24142.65	PASS	AC=31;AF=0.443;AN=70;BaseQ
51171	chrY	59001889	.	G	A	10768.39	PASS	AC=6;AF=0.086;AN=70;BaseQ
51172	chrY	59001906	.	A	G	12840.14	PASS	AC=6;AF=0.086;AN=70;BaseQ
51173	chrY	59001911	.	G	C	18971.84	PASS	AC=9;AF=0.129;AN=70;BaseQ
51174	chrY	59001913	.	A	C	687.54	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51175	chrY	59001925	.	A	G	3353.10	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
51176	chrY	59001950	.	A	T	10701.94	PASS	AC=19;AF=0.271;AN=70;BaseQ
51177	chrY	59001955	.	C	A	74442.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51178	chrY	59001960	.	T	A	4790.59	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51179	chrY	59001979	.	G	A	31211.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51180	chrY	59002029	.	C	G	26393.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
51181	chrY	59002047	.	C	G	27598.19	PASS	AC=33;AF=0.471;AN=70;BaseQ
51182	chrY	59002067	.	T	A	11324.37	PASS	AC=25;AF=0.357;AN=70;BaseQ
51183	chrY	59002073	.	C	T	10132.64	PASS	AC=21;AF=0.300;AN=70;BaseQ
51184	chrY	59002093	.	T	C	9028.23	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
51185	chrY	59002101	.	T	C	2781.99	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
51186	chrY	59002102	.	G	A	38303.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51187	chrY	59002114	.	A	G	159501.13	PASS	AC=61;AF=0.871;AN=70;BaseQ
51188	chrY	59002122	.	G	A	6156.19	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
51189	chrY	59002139	.	G	T,A	64034.19	PASS	AC=36,5;AF=0.514,0.071;AN=
51190	chrY	59002144	.	G	A	5925.19	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
51191	chrY	59002161	.	G	A	121.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51192	chrY	59002163	.	C	T	101.01	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51193	chrY	59002171	.	C	A	6826.09	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
51194	chrY	59002202	.	G	A	6697.27	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51195	chrY	59002208	.	T	A,C	14354.51	PASS	AC=28,3;AF=0.400,0.043;AN=
51196	chrY	59002215	.	G	T	300.57	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51197	chrY	59002232	.	A	T	4666.45	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
51198	chrY	59002242	.	C	T	2692.18	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
51199	chrY	59002243	.	G	A	195.46	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum=
51200	chrY	59002264	.	A	G	54164.42	PASS	AC=51;AF=0.750;AN=68;BaseQ
51201	chrY	59002266	.	A	T	93.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51202	chrY	59002269	.	A	G	66.51	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51203	chrY	59002282	.	A	C	458.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51204	chrY	59002284	.	C	T	1802.78	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
51205	chrY	59002298	.	A	G	333.58	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51206	chrY	59002299	.	A	T	285.68	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51207	chrY	59002320	.	G	A	3337.31	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
51208	chrY	59002336	.	G	T	57.19	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51209	chrY	59002342	.	A	G	51.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51210	chrY	59002358	.	A	C	72.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51211	chrY	59002362	.	C	T	18791.52	PASS	AC=28;AF=0.400;AN=70;BaseQ
51212	chrY	59002408	.	G	A	98921.87	PASS	AC=37;AF=0.529;AN=70;BaseQ
51213	chrY	59002435	.	C	G	16522.06	PASS	AC=34;AF=0.486;AN=70;BaseQ
51214	chrY	59002439	.	T	C	4032.43	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
51215	chrY	59002455	.	C	T	4698.13	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
51216	chrY	59002462	.	A	C	1136.99	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51217	chrY	59002478	.	C	T	107.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51218	chrY	59002484	.	A	G	5058.82	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
51219	chrY	59002506	.	A	C	4321.69	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
51220	chrY	59002522	.	T	A	14037.55	PASS	AC=27;AF=0.386;AN=70;BaseQ
51221	chrY	59002526	.	T	G	17306.64	PASS	AC=32;AF=0.457;AN=70;BaseQ
51222	chrY	59002536	.	C	A,T	13515.44	PASS	AC=25,4;AF=0.357,0.057;AN=
51223	chrY	59002537	.	C	A	2315.32	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
51224	chrY	59002539	.	A	C	3169.60	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=

51225	chrY	59002542	.	T	A	2255.68	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51226	chrY	59002553	.	G	A	1661.11	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
51227	chrY	59002570	.	G	A	963.69	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
51228	chrY	59002573	.	C	T	779.72	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
51229	chrY	59002593	.	T	A	580.14	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
51230	chrY	59002595	.	C	T	719.97	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
51231	chrY	59002611	.	A	G	367.35	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum=
51232	chrY	59002614	.	G	T	32.71	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51233	chrY	59002627	.	G	T	9930.33	my_snp_filter	AC=14;AF=0.219;AN=64;Base
51234	chrY	59002632	.	G	A	10214.73	my_snp_filter	AC=16;AF=0.235;AN
51235	chrY	59002655	.	G	A	186.77	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51236	chrY	59002657	.	C	G	204.55	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51237	chrY	59002659	.	A	C	2099.46	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
51238	chrY	59002664	.	A	G	2073.64	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
51239	chrY	59002667	.	A	T	388.40	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51240	chrY	59002668	.	C	T	73.94	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
51241	chrY	59002701	.	T	G	1599.88	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
51242	chrY	59002708	.	A	G	203.74	my_snp_filter	AC=5;AF=0.074;AN=68;BaseQ
51243	chrY	59002713	.	C	G	5175.86	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
51244	chrY	59002718	.	G	A	5191.58	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
51245	chrY	59002728	.	G	A	11688.75	PASS	AC=21;AF=0.300;AN=70;Base
51246	chrY	59002730	.	G	A	870.47	my_snp_filter	AC=12;AF=0.171;AN=70;Base
51247	chrY	59002734	.	A	C	24495.71	PASS	AC=30;AF=0.441;AN=68;Base
51248	chrY	59002761	.	A	C	326.94	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
51249	chrY	59002800	.	A	G	8795.95	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
51250	chrY	59002815	.	A	G	29781.12	PASS	AC=16;AF=0.308;AN=52;Base
51251	chrY	59002817	.	G	T	29638.89	PASS	AC=16;AF=0.296;AN=54;Base
51252	chrY	59002822	.	T	G	8025.41	PASS	AC=11;AF=0.162;AN=68;BaseQRankSum=
51253	chrY	59002835	.	G	A	7959.31	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
51254	chrY	59002850	.	T	G	7865.28	PASS	AC=12;AF=0.182;AN=66;BaseQRankSum=
51255	chrY	59002903	.	A	G	7503.34	PASS	AC=31;AF=0.456;AN=68;BaseQRankSum=
51256	chrY	59002917	.	C	T	1923.34	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
51257	chrY	59002930	.	C	T,G	3873.65	PASS	AC=12,5;AF=0.214,0.089;AN=56;Base
51258	chrY	59002935	.	C	T	1397.78	PASS	AC=5;AF=0.089;AN=56;BaseQRankSum=
51259	chrY	59002945	.	T	A	85.86	PASS	AC=1;AF=0.025;AN=40;BaseQRankSum=
51260	chrY	59002947	.	G	T,*	211.04	PASS	AC=1,1;AF=0.021,0.021;AN=48;BaseQ
51261	chrY	59002952	.	T	C	977.66	PASS	AC=4;AF=0.071;AN=56;BaseQRankSum=
51262	chrY	59002954	.	C	T	895.23	PASS	AC=3;AF=0.048;AN=62;BaseQRankSum=
51263	chrY	59002969	.	C	T	1166.71	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
51264	chrY	59002975	.	C	G	1342.94	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
51265	chrY	59002978	.	G	A	1933.79	my_snp_filter	AC=17;AF=0.274;AN=62;Base
51266	chrY	59002989	.	A	T	1316.11	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
51267	chrY	59002995	.	A	G	1334.16	my_snp_filter	AC=3;AF=0.045;AN=66;BaseQ
51268	chrY	59003002	.	A	G	1302.20	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51269	chrY	59003006	.	A	G	1609.51	my_snp_filter	AC=5;AF=0.076;AN=66;BaseQ
51270	chrY	59003012	.	A	G	1339.65	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51271	chrY	59003020	.	C	A	317.99	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51272	chrY	59003031	.	C	T	1244.16	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51273	chrY	59003032	.	C	G	278.76	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51274	chrY	59003033	.	A	G	1270.19	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51275	chrY	59003040	.	A	G	1220.01	my_snp_filter	AC=3;AF=0.044;AN=68;BaseQ
51276	chrY	59003048	.	G	A	945.80	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
51277	chrY	59003056	.	A	G	897.35	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
51278	chrY	59003059	.	T	A	24944.69	PASS	AC=40;AF=0.588;AN=68;Base
51279	chrY	59003069	.	G	C	933.54	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
51280	chrY	59003075	.	A	C	1297.32	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
51281	chrY	59003080	.	C	T	805.58	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
51282	chrY	59003083	.	C	G	808.60	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
51283	chrY	59003090	.	G	A	490.84	PASS	AC=3;AF=0.045;AN=66;BaseQRankSum=
51284	chrY	59003094	.	T	C	5824.64	PASS	AC=28;AF=0.424;AN=66;BaseQRankSum=
51285	chrY	59003119	.	C	A	31.35	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
51286	chrY	59003133	.	G	C	598.58	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51287	chrY	59003142	.	G	A	569.65	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51288	chrY	59003159	.	T	A	569.60	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
51289	chrY	59003160	.	A	G	623.47	my_snp_filter	AC=7;AF=0.106;AN=66;BaseQ
51290	chrY	59003165	.	G	T	500.80	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum=
51291	chrY	59003189	.	A	G	354.27	PASS	AC=2;AF=0.030;AN=66;BaseQRankSum=
51292	chrY	59003194	.	T	A	295.76	my_snp_filter	AC=2;AF=0.034;AN=58;BaseQ
51293	chrY	59003222	.	A	G,*	855.70	PASS	AC=1,2;AF=0.015,0.029;AN=68;BaseQ
51294	chrY	59003250	.	G	T	268.83	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51295	chrY	59003252	.	G	A	430.20	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
51296	chrY	59003270	.	T	A	359.71	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51297	chrY	59003276	.	G	C	54150.95	PASS	AC=47;AF=0.671;AN=70;Base
51298	chrY	59003285	.	A	G	287.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51299	chrY	59003293	.	G	A	17549.46	PASS	AC=30;AF=0.441;AN=68;Base
51300	chrY	59003305	.	A	C	185.30	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ

51301	chrY	59003308	.	A	C	55354.54	PASS	AC=43;AF=0.614;AN=70;BaseQ
51302	chrY	59003330	.	C	G	367.91	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51303	chrY	59003346	.	T	C	398.28	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51304	chrY	59003383	.	T	C	23816.59	PASS	AC=33;AF=0.471;AN=70;BaseQ
51305	chrY	59003393	.	T	A	115.42	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51306	chrY	59003405	.	T	C	25773.12	PASS	AC=33;AF=0.471;AN=70;BaseQ
51307	chrY	59003415	.	G	C	99.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51308	chrY	59003424	.	C	A	1526.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
51309	chrY	59003429	.	T	C	62.11	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51310	chrY	59003444	.	T	C	332.19	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51311	chrY	59003446	.	T	C	1610.62	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51312	chrY	59003453	.	T	G	1301.61	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51313	chrY	59003458	.	A	C	215.69	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51314	chrY	59003467	.	T	C	68662	PASS	AC=54;AF=0.771;AN=70;BaseQRankSum=
51315	chrY	59003482	.	G	T	403.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51316	chrY	59003487	.	T	A	545.23	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51317	chrY	59003506	.	A	G	797.87	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51318	chrY	59003519	.	T	C	412.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51319	chrY	59003531	.	C	A	420.44	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51320	chrY	59003562	.	C	T	575.05	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQ
51321	chrY	59003568	.	G	T	17171.20	PASS	AC=33;AF=0.471;AN=70;BaseQ
51322	chrY	59003592	.	A	G,T	70945.22	PASS	AC=36,32;AF=0.514,0.457;AN=70;BaseQ
51323	chrY	59003608	.	G	T	686.77	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
51324	chrY	59003613	.	A	T	341.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51325	chrY	59003647	.	A	T	233.92	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51326	chrY	59003695	.	G	T	114625.48	PASS	AC=45;AF=0.643;AN=70;BaseQ
51327	chrY	59003696	.	C	T	44.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51328	chrY	59003711	.	G	A	107276.55	PASS	AC=41;AF=0.586;AN=70;BaseQ
51329	chrY	59003782	.	C	T	2099.50	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
51330	chrY	59003815	.	A	G	38.64	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51331	chrY	59003822	.	G	T	5639.39	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
51332	chrY	59003824	.	A	T	12551.85	PASS	AC=19;AF=0.271;AN=70;BaseQ
51333	chrY	59003837	.	C	T	14513.42	PASS	AC=21;AF=0.300;AN=70;BaseQ
51334	chrY	59003852	.	A	G	1410.95	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
51335	chrY	59003855	.	G	A	16146.52	PASS	AC=20;AF=0.286;AN=70;BaseQ
51336	chrY	59003880	.	C	T	1230.64	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
51337	chrY	59003917	.	C	G	19295.97	PASS	AC=34;AF=0.486;AN=70;BaseQ
51338	chrY	59003980	.	C	T	1271.21	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51339	chrY	59003993	.	A	C	876.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
51340	chrY	59003997	.	G	A	422.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51341	chrY	59004037	.	T	G	179527.30	PASS	AC=59;AF=0.843;AN=70;BaseQ
51342	chrY	59004088	.	G	A	1268.82	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51343	chrY	59004092	.	A	G	32730.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51344	chrY	59004125	.	G	C	200368.12	PASS	AC=52;AF=0.743;AN=70;BaseQ
51345	chrY	59004144	.	C	A	682.82	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51346	chrY	59004146	.	G	C	171743.98	PASS	AC=52;AF=0.743;AN=70;BaseQ
51347	chrY	59004150	.	T	G	312.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51348	chrY	59004156	.	A	G	24371.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51349	chrY	59004184	.	C	A	17920.21	PASS	AC=33;AF=0.471;AN=70;BaseQ
51350	chrY	59004185	.	G	A	53.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51351	chrY	59004192	.	G	T	27082.99	PASS	AC=31;AF=0.443;AN=70;BaseQ
51352	chrY	59004218	.	T	C	18450.03	PASS	AC=32;AF=0.457;AN=70;BaseQ
51353	chrY	59004228	.	C	T	33.47	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51354	chrY	59004235	.	G	A	1347.92	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
51355	chrY	59004244	.	C	T	2679.85	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
51356	chrY	59004271	.	C	T	23555.91	PASS	AC=20;AF=0.303;AN=66;BaseQ
51357	chrY	59004273	.	A	G	24476.61	PASS	AC=23;AF=0.348;AN=66;BaseQ
51358	chrY	59004283	.	T	C	24053.06	PASS	AC=17;AF=0.258;AN=66;BaseQ
51359	chrY	59004294	.	C	A	22047.12	PASS	AC=14;AF=0.241;AN=58;BaseQ
51360	chrY	59004331	.	C	G	12330.38	PASS	AC=14;AF=0.292;AN=48;BaseQ
51361	chrY	59004407	.	C	T	1785.03	PASS	AC=5;AF=0.083;AN=60;BaseQRankSum=
51362	chrY	59004451	.	A	G	341.36	PASS	AC=4;AF=0.105;AN=38;BaseQRankSum=
51363	chrY	59004631	.	A	G,*	1116.83	my_snp_filter	AC=1,4;AF=0.028,0.111;AN=38
51364	chrY	59004635	.	A	G,*	978.74	my_snp_filter	AC=1,4;AF=0.022,0.087;AN=38
51365	chrY	59004695	.	A	T,*	19850.78	PASS	AC=2,9;AF=0.083,0.375;AN=38
51366	chrY	59004719	.	C	A	5213.71	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum=
51367	chrY	59004720	.	C	A	246.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51368	chrY	59004743	.	T	C	80.92	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51369	chrY	59004794	.	A	G	71607.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51370	chrY	59004833	.	C	A	19975.20	PASS	AC=33;AF=0.471;AN=70;BaseQ
51371	chrY	59004836	.	T	A	988.75	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
51372	chrY	59004862	.	G	A	2827.64	my_snp_filter	AC=18;AF=0.257;AN=70;BaseQ
51373	chrY	59004891	.	T	C	41323.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51374	chrY	59004900	.	C	T	328.95	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51375	chrY	59004901	.	G	A	159.34	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51376	chrY	59004934	.	G	A	53285.72	PASS	AC=35;AF=0.500;AN=70;BaseQ

51377	chrY	59004990	.	G	C	5212.38	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
51378	chrY	59005020	.	T	C	32430	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
51379	chrY	59005078	.	G	A	104.78	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51380	chrY	59005093	.	C	T	2172.60	my_snp_filter	AC=23;AF=0.329;AN=70;Base
51381	chrY	59005095	.	G	A	4540.05	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
51382	chrY	59005144	.	G	A	21280.72	PASS	AC=35;AF=0.500;AN=70;Base
51383	chrY	59005150	.	C	T	84.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51384	chrY	59005153	.	G	A	74694.72	PASS	AC=35;AF=0.500;AN=70;Base
51385	chrY	59005164	.	C	A	30656.12	PASS	AC=35;AF=0.500;AN=70;Base
51386	chrY	59005179	.	C	A,T	7508.26	PASS	AC=19,1;AF=0.271,0.014;AN=70;Base
51387	chrY	59005195	.	C	A	44.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51388	chrY	59005196	.	A	G	44.15	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51389	chrY	59005198	.	G	A	30175.72	PASS	AC=35;AF=0.500;AN=70;Base
51390	chrY	59005320	.	C	T	46.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51391	chrY	59005321	.	G	A	9237.90	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
51392	chrY	59005350	.	C	T	61244.76	PASS	AC=40;AF=0.571;AN=70;Base
51393	chrY	59005376	.	C	T	7093.62	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
51394	chrY	59005390	.	T	G	54.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51395	chrY	59005398	.	G	A	24936.33	PASS	AC=31;AF=0.443;AN=70;Base
51396	chrY	59005424	.	G	A	1217.39	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
51397	chrY	59005431	.	G	A	146.87	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
51398	chrY	59005435	.	T	C	21745.78	PASS	AC=18;AF=0.273;AN=66;Base
51399	chrY	59005482	.	C	T	466.41	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
51400	chrY	59005498	.	G	C	427.98	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
51401	chrY	59005514	.	T	C	2043.26	PASS	AC=4;AF=0.061;AN=66;BaseQRankSum
51402	chrY	59005534	.	G	A	2212.06	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum
51403	chrY	59005579	.	A	C	209.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51404	chrY	59005581	.	T	C	2007.58	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
51405	chrY	59005601	.	A	T	484.13	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51406	chrY	59005629	.	C	G	27088.86	PASS	AC=33;AF=0.471;AN=70;Base
51407	chrY	59005642	.	A	G	113.48	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
51408	chrY	59005646	.	G	A	18921.15	PASS	AC=30;AF=0.429;AN=70;Base
51409	chrY	59005650	.	C	T	18982.43	PASS	AC=30;AF=0.429;AN=70;Base
51410	chrY	59005687	.	A	T	401.59	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51411	chrY	59005698	.	T	G	52374.72	PASS	AC=35;AF=0.500;AN=70;Base
51412	chrY	59005702	.	A	G	52288.72	PASS	AC=35;AF=0.500;AN=70;Base
51413	chrY	59005706	.	A	T	70304.07	PASS	AC=41;AF=0.586;AN=70;Base
51414	chrY	59005736	.	T	C	62373.92	PASS	AC=45;AF=0.643;AN=70;Base
51415	chrY	59005746	.	A	G	2611.87	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51416	chrY	59005752	.	C	A	3090.10	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51417	chrY	59005777	.	G	A	31.58	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51418	chrY	59005783	.	G	A	352.92	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51419	chrY	59005842	.	C	G	61411.54	PASS	AC=34;AF=0.486;AN=70;Base
51420	chrY	59005847	.	A	G	61955.04	PASS	AC=34;AF=0.486;AN=70;Base
51421	chrY	59005861	.	G	C	190.51	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51422	chrY	59005870	.	A	G	49165.79	PASS	AC=34;AF=0.486;AN=70;Base
51423	chrY	59005888	.	G	A	879.89	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51424	chrY	59005909	.	C	A	47349.39	PASS	AC=44;AF=0.629;AN=70;Base
51425	chrY	59005928	.	C	A	2098.01	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51426	chrY	59005929	.	C	T	79.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51427	chrY	59005962	.	C	A	4564.71	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
51428	chrY	59005980	.	C	T	80.42	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51429	chrY	59006009	.	C	G	62.63	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51430	chrY	59006120	.	G	A	292.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51431	chrY	59006131	.	A	G	141.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51432	chrY	59006135	.	T	C	20788.73	PASS	AC=35;AF=0.500;AN=70;Base
51433	chrY	59006193	.	G	A	187.32	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
51434	chrY	59006194	.	C	A	1366.43	my_snp_filter	AC=10;AF=0.143;AN=70;Base
51435	chrY	59006203	.	A	G	18848.72	PASS	AC=35;AF=0.500;AN=70;Base
51436	chrY	59006211	.	G	A	245.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51437	chrY	59006232	.	A	G	149.87	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51438	chrY	59006260	.	A	G	1060.79	my_snp_filter	AC=13;AF=0.191;AN=68;Base
51439	chrY	59006268	.	A	T	207.90	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51440	chrY	59006272	.	C	T	175.75	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51441	chrY	59006299	.	G	T	35.31	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51442	chrY	59006308	.	A	T	2259.51	my_snp_filter	AC=18;AF=0.257;AN=70;Base
51443	chrY	59006310	.	C	T	1058.25	my_snp_filter	AC=11;AF=0.157;AN=70;Base
51444	chrY	59006394	.	C	T	42260.72	PASS	AC=35;AF=0.500;AN=70;Base
51445	chrY	59006428	.	C	T	1134.17	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51446	chrY	59006432	.	G	A	1265.20	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51447	chrY	59006438	.	C	T	1257.15	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51448	chrY	59006440	.	A	G	74387.77	PASS	AC=53;AF=0.757;AN=70;Base
51449	chrY	59006448	.	T	C	1241.78	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51450	chrY	59006552	.	T	C	66007.40	PASS	AC=51;AF=0.729;AN=70;Base
51451	chrY	59006555	.	A	G	24072.46	PASS	AC=30;AF=0.429;AN=70;Base
51452	chrY	59006561	.	C	T	3028.75	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum

51453	chrY	59006570	.	C	T	4658.95	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51454	chrY	59006573	.	G	T	25443.43	PASS	AC=28;AF=0.400;AN=70;BaseQ
51455	chrY	59006579	.	C	A	2411.84	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
51456	chrY	59006617	.	G	A	57.23	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51457	chrY	59006618	.	A	G	142.41	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
51458	chrY	59006625	.	G	A	30882.88	PASS	AC=35;AF=0.500;AN=70;BaseQ
51459	chrY	59006710	.	C	G	2185.06	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
51460	chrY	59006761	.	A	G	18658.30	PASS	AC=26;AF=0.448;AN=58;BaseQ
51461	chrY	59006771	.	T	A	7208.56	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
51462	chrY	59006776	.	C	T	9222.06	PASS	AC=10;AF=0.156;AN=64;BaseQRankSum
51463	chrY	59006804	.	T	G	10581.82	PASS	AC=12;AF=0.200;AN=60;BaseQ
51464	chrY	59006825	.	A	C	7915.97	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum=
51465	chrY	59006835	.	C	T,*	1785.79	PASS	AC=3,2;AF=0.047,0.031;AN=64;BaseQ
51466	chrY	59006873	.	T	C	25684.92	PASS	AC=14;AF=0.206;AN=68;BaseQ
51467	chrY	59006887	.	C	T	26527.07	PASS	AC=12;AF=0.182;AN=66;BaseQ
51468	chrY	59006974	.	G	A	14507.34	PASS	AC=13;AF=0.191;AN=68;BaseQ
51469	chrY	59007112	.	G	A	603.54	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51470	chrY	59007141	.	G	A	680.18	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51471	chrY	59007143	.	C	A	14482.87	PASS	AC=33;AF=0.471;AN=70;BaseQ
51472	chrY	59007145	.	A	C	17097.29	PASS	AC=33;AF=0.471;AN=70;BaseQ
51473	chrY	59007174	.	A	G	15193.24	PASS	AC=34;AF=0.486;AN=70;BaseQ
51474	chrY	59007229	.	T	C	5477.55	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
51475	chrY	59007236	.	G	A	2812.49	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51476	chrY	59007350	.	A	C	13396.43	PASS	AC=33;AF=0.471;AN=70;BaseQ
51477	chrY	59007383	.	T	A	38535.53	PASS	AC=37;AF=0.529;AN=70;BaseQ
51478	chrY	59007407	.	C	A	6951.39	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
51479	chrY	59007412	.	C	T	824	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51480	chrY	59007436	.	T	A	397.66	PASS	AC=6;AF=0.097;AN=62;BaseQRankSum=
51481	chrY	59007442	.	T	A	38.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
51482	chrY	59007460	.	T	C	44.18	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum=
51483	chrY	59007477	.	G	A	629.34	PASS	AC=8;AF=0.138;AN=58;BaseQRankSum=
51484	chrY	59007481	.	A	G	21108.66	PASS	AC=46;AF=0.767;AN=60;BaseQ
51485	chrY	59007543	.	A	T	12628	PASS	AC=25;AF=0.368;AN=68;BaseQRankSum
51486	chrY	59007555	.	T	C	34290.39	PASS	AC=35;AF=0.515;AN=68;BaseQ
51487	chrY	59007560	.	A	T	207.24	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
51488	chrY	59007574	.	G	T	483.48	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51489	chrY	59007587	.	C	T	2073.69	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
51490	chrY	59007588	.	A	G	8981.36	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
51491	chrY	59007598	.	T	A	5015.86	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51492	chrY	59007611	.	T	A	644.84	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
51493	chrY	59007631	.	C	T	8133.47	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
51494	chrY	59007642	.	G	A	25447.81	PASS	AC=33;AF=0.471;AN=70;BaseQ
51495	chrY	59007644	.	C	A	12660.78	PASS	AC=24;AF=0.343;AN=70;BaseQ
51496	chrY	59007683	.	G	T	83.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51497	chrY	59007692	.	G	A	70823.88	PASS	AC=40;AF=0.571;AN=70;BaseQ
51498	chrY	59007709	.	C	T	109.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51499	chrY	59007710	.	G	A	11791.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
51500	chrY	59007713	.	C	T	8441.66	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51501	chrY	59007725	.	A	C	15920.74	PASS	AC=29;AF=0.414;AN=70;BaseQ
51502	chrY	59007728	.	A	C	7788.44	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51503	chrY	59007754	.	G	A	3647.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
51504	chrY	59007779	.	T	A	38894.10	PASS	AC=43;AF=0.614;AN=70;BaseQ
51505	chrY	59007816	.	T	A	937.18	PASS	AC=5;AF=0.076;AN=66;BaseQRankSum=
51506	chrY	59007854	.	C	T	55.08	my_snp_filter	AC=2;AF=0.033;AN=60;BaseQ
51507	chrY	59007855	.	A	G	18761.17	PASS	AC=25;AF=0.521;AN=48;BaseQ
51508	chrY	59007879	.	G	T	4534	PASS	AC=16;AF=0.333;AN=48;BaseQRankSum
51509	chrY	59007887	.	G	T	12112.72	PASS	AC=19;AF=0.380;AN=50;BaseQ
51510	chrY	59007951	.	C	T	14272.05	PASS	AC=10;AF=0.250;AN=40;BaseQ
51511	chrY	59007973	.	A	C	9974.23	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
51512	chrY	59007976	.	A	G	171.34	PASS	AC=1;AF=0.024;AN=42;BaseQRankSum=
51513	chrY	59007977	.	A	C	4579.02	PASS	AC=9;AF=0.188;AN=48;BaseQRankSum=
51514	chrY	59007989	.	G	A	20994.18	PASS	AC=14;AF=0.389;AN=36;BaseQ
51515	chrY	59008002	.	C	T	23139.98	PASS	AC=17;AF=0.607;AN=28;BaseQ
51516	chrY	59008112	.	G	T	12119.83	PASS	AC=9;AF=0.129;AN=70;BaseQ
51517	chrY	59008115	.	C	T	13523.49	PASS	AC=9;AF=0.129;AN=70;BaseQ
51518	chrY	59008148	.	C	T	14895.44	PASS	AC=12;AF=0.171;AN=70;BaseQ
51519	chrY	59008154	.	C	T	49370.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51520	chrY	59008161	.	G	T	49213.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51521	chrY	59008170	.	T	C	66948.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51522	chrY	59008212	.	A	G	954.33	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
51523	chrY	59008226	.	T	G	6538.62	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
51524	chrY	59008264	.	T	A	1504.70	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
51525	chrY	59008269	.	T	A	793.90	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51526	chrY	59008282	.	T	C	9750.73	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
51527	chrY	59008339	.	G	A	457.39	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51528	chrY	59008348	.	C	A	43559.58	PASS	AC=35;AF=0.500;AN=70;BaseQ

51529	chrY	59008385	.	A	T	21541.84	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
51530	chrY	59008408	.	C	T	3672.60	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQRankSum=
51531	chrY	59008426	.	T	A	55.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
51532	chrY	59008434	.	A	T	3720.46	my_snp_filter	AC=26;AF=0.371;AN=70;BaseQRankSum=
51533	chrY	59008522	.	C	T	2783.07	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum=
51534	chrY	59008525	.	G	A	248.96	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQRankSum=
51535	chrY	59008560	.	G	T	8767.17	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum=
51536	chrY	59008567	.	G	A	8014.28	PASS	AC=12;AF=0.188;AN=64;BaseQRankSum=
51537	chrY	59008601	.	A	C	12195.98	PASS	AC=37;AF=0.617;AN=60;BaseQRankSum=
51538	chrY	59008638	.	C	G	32931.30	PASS	AC=35;AF=0.565;AN=62;BaseQRankSum=
51539	chrY	59008647	.	T	G	15880.20	PASS	AC=19;AF=0.317;AN=60;BaseQRankSum=
51540	chrY	59008652	.	A	C	34271.21	PASS	AC=35;AF=0.583;AN=60;BaseQRankSum=
51541	chrY	59008673	.	G	A	260	PASS	AC=4;AF=0.059;AN=68;BaseQRankSum=
51542	chrY	59008693	.	C	T	1126.48	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
51543	chrY	59008741	.	A	G	11333.28	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
51544	chrY	59008760	.	T	C	35.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
51545	chrY	59008766	.	A	C	1232.48	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum=
51546	chrY	59008767	.	T	C	75.73	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51547	chrY	59008782	.	T	G	12137.89	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
51548	chrY	59008823	.	G	A	5111.83	PASS	AC=21;AF=0.309;AN=68;BaseQRankSum=
51549	chrY	59008848	.	C	T	9108.07	PASS	AC=32;AF=0.471;AN=68;BaseQRankSum=
51550	chrY	59008913	.	G	A, T	19961.03	PASS	AC=39, 9;AF=0.750, 0.173;AN=70
51551	chrY	59008918	.	C	T	3490.79	PASS	AC=16;AF=0.286;AN=56;BaseQRankSum=
51552	chrY	59008974	.	G	A	6123.74	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
51553	chrY	59008979	.	G	C	2551.36	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
51554	chrY	59008980	.	T	C	78.61	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51555	chrY	59009026	.	A	T	2843.60	PASS	AC=17;AF=0.258;AN=66;BaseQRankSum=
51556	chrY	59009057	.	C	T	878.70	PASS	AC=2;AF=0.029;AN=68;BaseQRankSum=
51557	chrY	59009065	.	G	C	654.11	my_snp_filter	AC=4;AF=0.059;AN=68;BaseQRankSum=
51558	chrY	59009102	.	C	A	20855.34	PASS	AC=39;AF=0.591;AN=66;BaseQRankSum=
51559	chrY	59009108	.	T	C	649.90	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum=
51560	chrY	59009148	.	C	A	12784.97	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum=
51561	chrY	59009156	.	T	A	13171.60	PASS	AC=14;AF=0.241;AN=58;BaseQRankSum=
51562	chrY	59009175	.	G	C	8180.59	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
51563	chrY	59009176	.	T	C	8180.50	PASS	AC=10;AF=0.167;AN=60;BaseQRankSum=
51564	chrY	59009230	.	C	T	191.75	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
51565	chrY	59009237	.	A	C, *	435.12	my_snp_filter	AC=3, 4;AF=0.043, 0.057;AN=70
51566	chrY	59009238	.	C	T	193.95	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
51567	chrY	59009279	.	C	A	6296.60	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
51568	chrY	59009290	.	C	T	7210.73	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
51569	chrY	59009310	.	G	T	10719.37	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
51570	chrY	59009355	.	G	T	15802.31	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
51571	chrY	59009372	.	G	A	66612.62	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
51572	chrY	59009375	.	G	A	16372.67	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
51573	chrY	59009392	.	G	A	22101.16	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
51574	chrY	59009432	.	G	T	14301.45	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
51575	chrY	59009465	.	G	A	218.92	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
51576	chrY	59009531	.	C	A	14219.86	PASS	AC=15;AF=0.268;AN=56;BaseQRankSum=
51577	chrY	59009594	.	G	A	18659.62	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
51578	chrY	59009672	.	G	A	32556.37	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
51579	chrY	59009693	.	C	T	35443.87	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum=
51580	chrY	59009727	.	C	T	320.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
51581	chrY	59009731	.	C	T	2332.13	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQRankSum=
51582	chrY	59009735	.	G	A	9202.59	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
51583	chrY	59009743	.	C	T	11890.31	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
51584	chrY	59009765	.	T	C	33096.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
51585	chrY	59009769	.	C	A	83.57	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
51586	chrY	59009771	.	G	A	256.80	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
51587	chrY	59009819	.	C	T	11649.64	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
51588	chrY	59009823	.	G	C	97.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
51589	chrY	59009827	.	T	C	2956.82	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
51590	chrY	59009831	.	A	T	52625.84	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
51591	chrY	59009892	.	T	G	66.72	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum=
51592	chrY	59009896	.	G	A	184.03	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
51593	chrY	59009936	.	G	A	35815.94	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum=
51594	chrY	59009998	.	T	C	404.32	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQRankSum=
51595	chrY	59010007	.	T	C	9733.83	PASS	AC=12;AF=0.240;AN=50;BaseQRankSum=
51596	chrY	59010023	.	A	C	1802.14	my_snp_filter	AC=10;AF=0.200;AN=50;BaseQRankSum=
51597	chrY	59010041	.	T	C	4229.16	PASS	AC=7;AF=0.159;AN=44;BaseQRankSum=
51598	chrY	59010083	.	A	G	10188.52	PASS	AC=9;AF=0.450;AN=20;BaseQRankSum=
51599	chrY	59010096	.	C	G	191.49	my_snp_filter	AC=2;AF=0.091;AN=22;BaseQRankSum=
51600	chrY	59010149	.	G	T	2779.49	my_snp_filter	AC=8;AF=0.364;AN=22;BaseQRankSum=
51601	chrY	59010161	.	A	T	17851.85	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
51602	chrY	59010184	.	T	C	6491.84	PASS	AC=9;AF=0.375;AN=24;BaseQRankSum=
51603	chrY	59010238	.	A	T	68.26	my_snp_filter	AC=1;AF=0.045;AN=22;BaseQRankSum=
51604	chrY	59010280	.	A	G	595.82	my_snp_filter	AC=3;AF=0.125;AN=24;BaseQRankSum=

51605	chrY	59010319	.	G	T	12034.78	PASS	AC=9;AF=0.375;AN=24;BaseQ
51606	chrY	59010417	.	A	G	1013.85	my_snp_filter	AC=3;AF=0.136;AN=22;BaseQ
51607	chrY	59010486	.	C	G	969.66	my_snp_filter	AC=3;AF=0.150;AN=20;BaseQ
51608	chrY	59010535	.	A	G	11002.20	PASS	AC=11;AF=0.423;AN=26;BaseQ
51609	chrY	59010599	.	A	G	22967.75	PASS	AC=12;AF=0.400;AN=30;BaseQ
51610	chrY	59010654	.	T	A	58.58	my_snp_filter	AC=2;AF=0.031;AN=64;BaseQ
51611	chrY	59010655	.	G	C	19883.06	PASS	AC=19;AF=0.306;AN=62;BaseQ
51612	chrY	59010749	.	A	C	1852.82	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51613	chrY	59010751	.	T	C	2468.95	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
51614	chrY	59010794	.	T	C	9047.26	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
51615	chrY	59010820	.	C	A	29192.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51616	chrY	59011009	.	T	C	703.21	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
51617	chrY	59011022	.	T	A	25456.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
51618	chrY	59011061	.	T	A	13008.68	PASS	AC=28;AF=0.412;AN=68;BaseQ
51619	chrY	59011099	.	T	C	1041.02	my_snp_filter	AC=6;AF=0.103;AN=58;BaseQ
51620	chrY	59011244	.	G	A	14647	PASS	AC=9;AF=0.173;AN=52;BaseQRankSum
51621	chrY	59011253	.	A	G	39714.05	PASS	AC=17;AF=0.293;AN=58;BaseQ
51622	chrY	59011281	.	A	T	2501.91	PASS	AC=5;AF=0.074;AN=68;BaseQRankSum
51623	chrY	59011347	.	A	C	2542.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51624	chrY	59011358	.	A	G	826.15	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51625	chrY	59011367	.	T	A	8636.93	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
51626	chrY	59011368	.	G	A	2045.42	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
51627	chrY	59011372	.	C	A	41783.38	PASS	AC=29;AF=0.414;AN=70;BaseQ
51628	chrY	59011383	.	T	C	39372.19	PASS	AC=31;AF=0.443;AN=70;BaseQ
51629	chrY	59011417	.	C	T	30888.75	PASS	AC=39;AF=0.557;AN=70;BaseQ
51630	chrY	59011484	.	C	T	696.41	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51631	chrY	59011488	.	C	A	991.50	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51632	chrY	59011499	.	A	T	711.12	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51633	chrY	59011508	.	C	A	5823.07	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
51634	chrY	59011509	.	A	G	1694.19	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
51635	chrY	59011532	.	C	T	271.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51636	chrY	59011580	.	A	G	51.46	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51637	chrY	59011593	.	C	T	11161.46	PASS	AC=31;AF=0.443;AN=70;BaseQ
51638	chrY	59011613	.	C	A,T	59284.02	PASS	AC=27,25;AF=0.386,0.357;AN=70;BaseQ
51639	chrY	59011615	.	C	T	502.12	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51640	chrY	59011627	.	A	G	283.05	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51641	chrY	59011650	.	A	G	1301.32	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
51642	chrY	59011654	.	C	G	28756.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51643	chrY	59011687	.	T	A	176.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51644	chrY	59011731	.	C	A	21915.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51645	chrY	59011736	.	A	T	84.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51646	chrY	59011768	.	A	T	2274.33	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
51647	chrY	59011821	.	A	T	44637.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51648	chrY	59011890	.	G	T	391.09	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51649	chrY	59011897	.	C	A	270.36	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51650	chrY	59011914	.	T	G	736.28	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
51651	chrY	59011960	.	T	C	51975.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51652	chrY	59011965	.	G	A	51355.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51653	chrY	59011983	.	A	G	75586.53	PASS	AC=59;AF=0.843;AN=70;BaseQ
51654	chrY	59012007	.	G	C	47309.73	PASS	AC=42;AF=0.600;AN=70;BaseQ
51655	chrY	59012085	.	T	C	10693.31	PASS	AC=17;AF=0.266;AN=64;BaseQ
51656	chrY	59012157	.	C	T	97.97	my_snp_filter	AC=1;AF=0.015;AN=66;BaseQ
51657	chrY	59012162	.	G	A	17949.28	PASS	AC=25;AF=0.379;AN=66;BaseQ
51658	chrY	59012198	.	A	G	2193.04	PASS	AC=8;AF=0.121;AN=66;BaseQRankSum
51659	chrY	59012205	.	T	A	3486.08	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
51660	chrY	59012208	.	A	T	6368.07	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
51661	chrY	59012211	.	G	A	2222.19	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
51662	chrY	59012221	.	G	C	60.56	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51663	chrY	59012316	.	C	T	148.20	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51664	chrY	59012354	.	T	C	90352.14	PASS	AC=41;AF=0.586;AN=70;BaseQ
51665	chrY	59012364	.	A	T	25276.49	PASS	AC=31;AF=0.443;AN=70;BaseQ
51666	chrY	59012367	.	T	G	25444.82	PASS	AC=31;AF=0.443;AN=70;BaseQ
51667	chrY	59012382	.	G	C	8334.18	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
51668	chrY	59012419	.	A	C	48278.71	PASS	AC=15;AF=0.221;AN=68;BaseQ
51669	chrY	59012420	.	T	A	48233.77	PASS	AC=13;AF=0.191;AN=68;BaseQ
51670	chrY	59012511	.	C	G	58.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51671	chrY	59012514	.	G	A	1654.53	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQ
51672	chrY	59012522	.	G	C	17010.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
51673	chrY	59012541	.	G	A	5355.92	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51674	chrY	59012574	.	G	A,C	389.51	PASS	AC=2,1;AF=0.029,0.014;AN=70;BaseQ
51675	chrY	59012590	.	T	G	850.39	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51676	chrY	59012638	.	C	A	1803.34	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQ
51677	chrY	59012645	.	G	T	29611.71	PASS	AC=32;AF=0.457;AN=70;BaseQ
51678	chrY	59012659	.	G	A	1003.13	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
51679	chrY	59012660	.	C	A,G	1164.50	my_snp_filter	AC=6,2;AF=0.086,0.029;AN=70;BaseQ
51680	chrY	59012700	.	A	T	117727.72	PASS	AC=35;AF=0.500;AN=70;BaseQ

51681	chrY	59012707	.	T	G	119933.72	PASS	AC=35;AF=0.500;AN=70;Base
51682	chrY	59012708	.	G	T	14689.31	PASS	AC=28;AF=0.400;AN=70;Base
51683	chrY	59012740	.	G	C	35284.72	PASS	AC=35;AF=0.500;AN=70;Base
51684	chrY	59012742	.	A	C	27980.36	PASS	AC=33;AF=0.471;AN=70;Base
51685	chrY	59012773	.	A	G	5597.02	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
51686	chrY	59012778	.	G	C	105541.26	PASS	AC=42;AF=0.600;AN=70;Base
51687	chrY	59012792	.	A	T	65789.72	PASS	AC=35;AF=0.500;AN=70;Base
51688	chrY	59012817	.	C	G	6079.34	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51689	chrY	59012825	.	C	G	101.57	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51690	chrY	59012826	.	A	C	6284.46	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51691	chrY	59012828	.	G	A	29861.38	PASS	AC=26;AF=0.371;AN=70;Base
51692	chrY	59012833	.	G	A	290.09	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51693	chrY	59012841	.	C	G	5860.78	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum
51694	chrY	59012859	.	C	G	204.71	my_snp_filter	AC=1;AF=0.015;AN=68;BaseQ
51695	chrY	59012870	.	C	T	1173.97	PASS	AC=7;AF=0.106;AN=66;BaseQRankSum
51696	chrY	59012875	.	T	G	30642.23	PASS	AC=30;AF=0.455;AN=66;Base
51697	chrY	59012878	.	G	A	2836.83	PASS	AC=12;AF=0.194;AN=62;BaseQRankSum
51698	chrY	59012897	.	C	T	3068.04	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
51699	chrY	59012923	.	A	G	18421.90	PASS	AC=13;AF=0.224;AN=58;Base
51700	chrY	59012937	.	C	T	3835.30	PASS	AC=6;AF=0.143;AN=42;BaseQRankSum
51701	chrY	59012939	.	A	G	18083.75	PASS	AC=13;AF=0.241;AN=54;Base
51702	chrY	59012980	.	T	C	25548.88	PASS	AC=12;AF=0.400;AN=30;Base
51703	chrY	59012994	.	A	C	8234.01	PASS	AC=14;AF=0.389;AN=36;BaseQRankSum
51704	chrY	59013006	.	C	T	13604.42	PASS	AC=10;AF=0.227;AN=44;Base
51705	chrY	59013026	.	A	T	75.20	my_snp_filter	AC=1;AF=0.017;AN=58;BaseQ
51706	chrY	59013076	.	C	T	40309.03	PASS	AC=45;AF=0.643;AN=70;Base
51707	chrY	59013098	.	G	A	62.72	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51708	chrY	59013106	.	A	T	71.10	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51709	chrY	59013133	.	C	T	25725.72	PASS	AC=35;AF=0.500;AN=70;Base
51710	chrY	59013179	.	G	T	18176.43	PASS	AC=32;AF=0.457;AN=70;Base
51711	chrY	59013191	.	A	G	64891.72	PASS	AC=35;AF=0.500;AN=70;Base
51712	chrY	59013197	.	A	G	66618.72	PASS	AC=35;AF=0.500;AN=70;Base
51713	chrY	59013228	.	C	G	33466.72	PASS	AC=34;AF=0.486;AN=70;Base
51714	chrY	59013265	.	G	T	2906.21	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51715	chrY	59013267	.	C	T	2900.15	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
51716	chrY	59013283	.	C	T	5676.66	my_snp_filter	AC=21;AF=0.300;AN=70;Base
51717	chrY	59013334	.	T	C	2036.08	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
51718	chrY	59013336	.	C	T	4796.75	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
51719	chrY	59013371	.	C	T	861.94	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51720	chrY	59013388	.	C	T	198.04	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
51721	chrY	59013390	.	A	C	1758.08	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum
51722	chrY	59013392	.	C	G	1756.46	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
51723	chrY	59013438	.	T	C	1082.81	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51724	chrY	59013459	.	T	G	73.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51725	chrY	59013500	.	T	C	11890.72	PASS	AC=35;AF=0.500;AN=70;Base
51726	chrY	59013541	.	G	A	48898.15	PASS	AC=32;AF=0.552;AN=58;Base
51727	chrY	59013581	.	T	C	36754.60	PASS	AC=31;AF=0.554;AN=56;Base
51728	chrY	59013617	.	T	A	3517.05	PASS	AC=17;AF=0.607;AN=28;BaseQRankSum
51729	chrY	59013629	.	T	A,*	995.95	PASS	AC=8,2;AF=0.333,0.083;AN=24;BaseQ
51730	chrY	59013631	.	T	A,*	921.51	PASS	AC=7,1;AF=0.350,0.050;AN=20;BaseQ
51731	chrY	59013633	.	A	A,*	698	PASS	AC=2,1;AF=0.143,0.071;AN=14;BaseQ
51732	chrY	59013641	.	T	A,*	1736.34	PASS	AC=2,5;AF=0.143,0.357;AN=14;BaseQ
51733	chrY	59013643	.	T	A,*	1652.34	PASS	AC=2,5;AF=0.143,0.357;AN=14;BaseQ
51734	chrY	59013645	.	T	A	1931.71	PASS	AC=8;AF=0.571;AN=14;BaseQRankSum
51735	chrY	59013647	.	T	A	652.56	PASS	AC=5;AF=0.227;AN=22;BaseQRankSum
51736	chrY	59013799	.	G	T	20668.72	PASS	AC=35;AF=0.500;AN=70;Base
51737	chrY	59013831	.	G	A	18060.72	PASS	AC=35;AF=0.500;AN=70;Base
51738	chrY	59013874	.	C	T	139.02	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
51739	chrY	59013880	.	C	T	32.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51740	chrY	59013889	.	T	C	44.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51741	chrY	59013938	.	G	T	43356.43	PASS	AC=38;AF=0.543;AN=70;Base
51742	chrY	59013962	.	A	G	153.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51743	chrY	59013964	.	C	A	750.85	my_snp_filter	AC=12;AF=0.171;AN=70;Base
51744	chrY	59013986	.	T	C	3424.37	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
51745	chrY	59014013	.	G	A	6035	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
51746	chrY	59014024	.	A	G	2297.61	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51747	chrY	59014106	.	T	C	9871.07	PASS	AC=13;AF=0.217;AN=60;BaseQRankSum
51748	chrY	59014116	.	A	G	10282	PASS	AC=14;AF=0.233;AN=60;BaseQRankSum
51749	chrY	59014168	.	C	T,A	16795.35	PASS	AC=30,1;AF=0.536,0.018;AN
51750	chrY	59014206	.	A	C	3851.27	PASS	AC=10;AF=0.147;AN=68;BaseQRankSum
51751	chrY	59014213	.	C	T	14543.45	PASS	AC=28;AF=0.424;AN=66;Base
51752	chrY	59014226	.	C	T	4081.98	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51753	chrY	59014251	.	A	G	3959.11	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
51754	chrY	59014379	.	G	A	4405.01	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51755	chrY	59014387	.	T	G	65852.07	PASS	AC=45;AF=0.643;AN=70;Base
51756	chrY	59014416	.	G	T	25830.84	PASS	AC=35;AF=0.500;AN=70;Base

51757	chrY	59014490	.	C	T	4447.28	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51758	chrY	59014536	.	A	G	3266.07	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51759	chrY	59014546	.	G	T	28328.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51760	chrY	59014599	.	C	T	34.48	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51761	chrY	59014657	.	G	A	283.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51762	chrY	59014659	.	G	A	7284.35	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
51763	chrY	59014673	.	A	G	26672.13	PASS	AC=34;AF=0.486;AN=70;BaseQ
51764	chrY	59014716	.	A	C	34352.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51765	chrY	59014761	.	T	G	2954.78	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
51766	chrY	59014835	.	T	C	12894.96	PASS	AC=31;AF=0.443;AN=70;BaseQ
51767	chrY	59014844	.	T	C	616.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
51768	chrY	59014924	.	A	G	2078.45	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
51769	chrY	59014977	.	G	A	72190.26	PASS	AC=37;AF=0.529;AN=70;BaseQ
51770	chrY	59014996	.	A	G	101848.96	PASS	AC=44;AF=0.629;AN=70;BaseQ
51771	chrY	59015026	.	G	A	95193.51	PASS	AC=47;AF=0.671;AN=70;BaseQ
51772	chrY	59015049	.	C	T	33342.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51773	chrY	59015055	.	G	A	2319.87	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
51774	chrY	59015105	.	A	C	112956.33	PASS	AC=56;AF=0.800;AN=70;BaseQ
51775	chrY	59015119	.	T	C	33121.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
51776	chrY	59015137	.	A	G	3950.98	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
51777	chrY	59015143	.	C	G	39731.02	PASS	AC=33;AF=0.471;AN=70;BaseQ
51778	chrY	59015146	.	A	G	134281.47	PASS	AC=55;AF=0.786;AN=70;BaseQ
51779	chrY	59015147	.	G	T	5050.96	my_snp_filter	AC=15;AF=0.214;AN=70;BaseQ
51780	chrY	59015153	.	C	T	6273.71	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
51781	chrY	59015173	.	C	G,T	40011.16	PASS	AC=30,6;AF=0.429,0.086;AN
51782	chrY	59015176	.	C	T	299.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum
51783	chrY	59015181	.	C	T	60.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51784	chrY	59015185	.	C	T	15303.52	PASS	AC=26;AF=0.371;AN=70;BaseQ
51785	chrY	59015193	.	C	A	3764.29	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
51786	chrY	59015230	.	A	T	4798.71	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
51787	chrY	59015256	.	T	A	167888.14	PASS	AC=60;AF=0.857;AN=70;BaseQ
51788	chrY	59015341	.	T	C	136.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51789	chrY	59015360	.	T	C	2884.92	my_snp_filter	AC=14;AF=0.200;AN=70;BaseQ
51790	chrY	59015498	.	C	T	2925.26	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
51791	chrY	59015529	.	T	C	23507.91	PASS	AC=31;AF=0.443;AN=70;BaseQ
51792	chrY	59015542	.	T	G	6000.07	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51793	chrY	59015547	.	C	T	28428.72	PASS	AC=33;AF=0.471;AN=70;BaseQ
51794	chrY	59015574	.	A	G	19404.87	PASS	AC=34;AF=0.486;AN=70;BaseQ
51795	chrY	59015606	.	C	T	10041.38	PASS	AC=20;AF=0.286;AN=70;BaseQ
51796	chrY	59015627	.	T	C	101712.65	PASS	AC=39;AF=0.557;AN=70;BaseQ
51797	chrY	59015633	.	A	G	29335.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51798	chrY	59015673	.	C	A	5219.69	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
51799	chrY	59015690	.	C	T	165.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51800	chrY	59015739	.	T	A	3502.69	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51801	chrY	59015745	.	G	T	350.86	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51802	chrY	59015764	.	G	C	5319.71	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51803	chrY	59015765	.	T	C	37170.81	PASS	AC=35;AF=0.500;AN=70;BaseQ
51804	chrY	59015785	.	G	A	3880.57	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51805	chrY	59015792	.	C	T	9801.04	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
51806	chrY	59015800	.	T	C	29886.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
51807	chrY	59015803	.	C	T	10793.57	PASS	AC=25;AF=0.357;AN=70;BaseQ
51808	chrY	59015804	.	A	G	86898.92	PASS	AC=41;AF=0.586;AN=70;BaseQ
51809	chrY	59015812	.	G	C	10643.60	PASS	AC=26;AF=0.371;AN=70;BaseQ
51810	chrY	59015836	.	A	G	2315.02	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
51811	chrY	59015846	.	C	G	68.47	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51812	chrY	59015862	.	T	C	6024.03	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
51813	chrY	59015887	.	C	T	2196.72	my_snp_filter	AC=16;AF=0.242;AN=66;BaseQ
51814	chrY	59015892	.	A	C	55.42	PASS	AC=1;AF=0.015;AN=68;BaseQRankSum
51815	chrY	59015902	.	C	T	13018.34	PASS	AC=29;AF=0.426;AN=68;BaseQ
51816	chrY	59015991	.	T	C	73751.07	PASS	AC=59;AF=0.843;AN=70;BaseQ
51817	chrY	59016010	.	G	T	31197.18	PASS	AC=34;AF=0.486;AN=70;BaseQ
51818	chrY	59016011	.	A	T	31204.60	PASS	AC=34;AF=0.486;AN=70;BaseQ
51819	chrY	59016067	.	C	T	23679.97	PASS	AC=31;AF=0.443;AN=70;BaseQ
51820	chrY	59016135	.	T	G	37348.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51821	chrY	59016141	.	A	G	74841.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51822	chrY	59016147	.	C	G	74640.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51823	chrY	59016160	.	A	G	63960.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
51824	chrY	59016167	.	C	T,A	317.71	my_snp_filter	AC=2,1;AF=0.029,0.014;AN=
51825	chrY	59016175	.	T	C	7197.07	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
51826	chrY	59016188	.	G	A	130245.11	PASS	AC=41;AF=0.586;AN=70;BaseQ
51827	chrY	59016205	.	A	G	4563.63	my_snp_filter	AC=21;AF=0.300;AN=70;BaseQ
51828	chrY	59016245	.	T	C	105.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51829	chrY	59016335	.	A	G	36.91	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51830	chrY	59016351	.	C	T	2767.20	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
51831	chrY	59016375	.	C	T	344.86	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51832	chrY	59016394	.	C	G	22091.24	PASS	AC=31;AF=0.443;AN=70;BaseQ

51833	chrY	59016404	.	G	A	2328.57	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
51834	chrY	59016416	.	G	C	1936.42	PASS	AC=9;AF=0.132;AN=68;BaseQRankSum=
51835	chrY	59016422	.	A	G	141.75	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51836	chrY	59016450	.	T	C	69979.99	PASS	AC=46;AF=0.676;AN=68;Base
51837	chrY	59016451	.	G	A	5002.28	PASS	AC=20;AF=0.294;AN=68;BaseQRankSum
51838	chrY	59016454	.	C	A	39907.54	PASS	AC=36;AF=0.514;AN=70;Base
51839	chrY	59016468	.	A	T	6560.12	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51840	chrY	59016487	.	T	C	22182.30	PASS	AC=34;AF=0.486;AN=70;Base
51841	chrY	59016510	.	A	C	1342.19	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51842	chrY	59016530	.	G	C	68443.74	PASS	AC=46;AF=0.657;AN=70;Base
51843	chrY	59016539	.	G	A	3517.76	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
51844	chrY	59016544	.	C	A	145.52	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51845	chrY	59016621	.	T	C	64266.69	PASS	AC=46;AF=0.657;AN=70;Base
51846	chrY	59016713	.	A	G	1823.43	my_snp_filter	AC=16;AF=0.229;AN=70;Base
51847	chrY	59016725	.	C	T	31946.72	PASS	AC=35;AF=0.500;AN=70;Base
51848	chrY	59016753	.	T	G	64.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51849	chrY	59016773	.	C	T	19211.86	PASS	AC=34;AF=0.486;AN=70;Base
51850	chrY	59016803	.	C	T	24156.70	PASS	AC=31;AF=0.443;AN=70;Base
51851	chrY	59016816	.	A	G	24689.25	PASS	AC=30;AF=0.429;AN=70;Base
51852	chrY	59016855	.	T	C	67.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51853	chrY	59016878	.	C	T	46557.25	PASS	AC=35;AF=0.500;AN=70;Base
51854	chrY	59016919	.	C	T	39581.72	PASS	AC=35;AF=0.500;AN=70;Base
51855	chrY	59016927	.	C	T	69839.72	PASS	AC=35;AF=0.500;AN=70;Base
51856	chrY	59016928	.	A	G	134064.85	PASS	AC=44;AF=0.629;AN=70;Base
51857	chrY	59016936	.	T	C	12937.03	PASS	AC=32;AF=0.457;AN=70;Base
51858	chrY	59016946	.	A	G	19938.84	PASS	AC=34;AF=0.486;AN=70;Base
51859	chrY	59016951	.	T	G	140804.27	PASS	AC=44;AF=0.629;AN=70;Base
51860	chrY	59016952	.	T	A	139942.74	PASS	AC=43;AF=0.614;AN=70;Base
51861	chrY	59016975	.	T	A	81.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
51862	chrY	59016989	.	C	T	5746.88	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51863	chrY	59017005	.	A	G	53586.72	PASS	AC=35;AF=0.500;AN=70;Base
51864	chrY	59017019	.	G	C	259.43	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
51865	chrY	59017050	.	C	T	46.50	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51866	chrY	59017052	.	G	C	1052.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51867	chrY	59017065	.	G	A	1712.80	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51868	chrY	59017131	.	G	A	39710.72	PASS	AC=35;AF=0.500;AN=70;Base
51869	chrY	59017181	.	T	A	5467.59	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
51870	chrY	59017205	.	C	T	35039.72	PASS	AC=35;AF=0.500;AN=70;Base
51871	chrY	59017206	.	A	G	111169.50	PASS	AC=40;AF=0.571;AN=70;Base
51872	chrY	59017238	.	A	G	14857.73	PASS	AC=31;AF=0.443;AN=70;Base
51873	chrY	59017244	.	C	T	1440.94	my_snp_filter	AC=10;AF=0.143;AN=70;Base
51874	chrY	59017250	.	C	T	33490.72	PASS	AC=35;AF=0.500;AN=70;Base
51875	chrY	59017272	.	C	A	15489.45	PASS	AC=31;AF=0.443;AN=70;Base
51876	chrY	59017324	.	A	T	11908.91	PASS	AC=30;AF=0.429;AN=70;Base
51877	chrY	59017328	.	A	G	11946.12	PASS	AC=30;AF=0.429;AN=70;Base
51878	chrY	59017340	.	G	T	10340.93	PASS	AC=31;AF=0.443;AN=70;Base
51879	chrY	59017346	.	A	G	3430.27	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51880	chrY	59017378	.	T	G	113864.93	PASS	AC=70;AF=1.00;AN=70;BaseQ
51881	chrY	59017392	.	T	C	5795.31	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
51882	chrY	59017393	.	G	A	5795.50	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
51883	chrY	59017468	.	G	C	6768.22	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51884	chrY	59017525	.	C	T	439.53	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51885	chrY	59017579	.	C	A	55.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51886	chrY	59017585	.	T	C	209.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51887	chrY	59017594	.	A	G	206.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
51888	chrY	59017634	.	G	A	1699.20	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51889	chrY	59017641	.	G	T	1893.57	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51890	chrY	59017649	.	C	T	423.28	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51891	chrY	59017650	.	G	A	27373.72	PASS	AC=35;AF=0.500;AN=70;Base
51892	chrY	59017720	.	C	T	1556.06	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51893	chrY	59017742	.	C	T	16447.92	PASS	AC=27;AF=0.386;AN=70;Base
51894	chrY	59017748	.	A	G	1734.78	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
51895	chrY	59017751	.	A	T	14786.98	PASS	AC=27;AF=0.386;AN=70;Base
51896	chrY	59017756	.	G	A	13153.75	PASS	AC=26;AF=0.371;AN=70;Base
51897	chrY	59017757	.	G	T	7541.05	PASS	AC=14;AF=0.226;AN=62;BaseQRankSum
51898	chrY	59017759	.	T	C	15191.68	PASS	AC=27;AF=0.397;AN=68;Base
51899	chrY	59017762	.	T	A	5961.08	PASS	AC=15;AF=0.221;AN=68;BaseQRankSum
51900	chrY	59017776	.	A	T	64.61	PASS	AC=1;AF=0.033;AN=30;BaseQRankSum=
51901	chrY	59017780	.	T	A	588.14	PASS	AC=7;AF=0.233;AN=30;BaseQRankSum=
51902	chrY	59017802	.	A	T,*	1793.49	PASS	AC=1,2;AF=0.031,0.063;AN=32;BaseQ
51903	chrY	59017806	.	A	T	1215.79	PASS	AC=7;AF=0.121;AN=58;BaseQRankSum=
51904	chrY	59017813	.	G	A	1143.75	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51905	chrY	59017817	.	C	T	1212.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
51906	chrY	59017854	.	C	T	888.84	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
51907	chrY	59017886	.	C	T	5586.67	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51908	chrY	59017896	.	A	C	5836.76	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum

51909	chrY	59017912	.	A	T	2315.14	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51910	chrY	59017917	.	T	G	3117.24	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
51911	chrY	59017919	.	G	T	11691.88	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
51912	chrY	59017984	.	C	T	14232.77	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
51913	chrY	59017991	.	G	A	4226.06	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51914	chrY	59018069	.	G	A	6489.33	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
51915	chrY	59018074	.	A	G	10320.90	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
51916	chrY	59018111	.	C	T	433.36	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum
51917	chrY	59018114	.	T	G	11575.90	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
51918	chrY	59018121	.	T	C	6270.53	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
51919	chrY	59018122	.	T	G	214.77	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum
51920	chrY	59018128	.	G	A	30412.71	my_snp_filter	AC=33;AF=0.471;AN=70;BaseQRankSum
51921	chrY	59018176	.	T	C	30113.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51922	chrY	59018177	.	G	A	153.97	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
51923	chrY	59018227	.	C	G	37111.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51924	chrY	59018242	.	A	T	40653.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51925	chrY	59018283	.	C	G	64.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
51926	chrY	59018289	.	A	C	208.46	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
51927	chrY	59018331	.	G	A	191.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
51928	chrY	59018335	.	G	C	3845.38	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
51929	chrY	59018341	.	C	G	46543.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51930	chrY	59018377	.	G	C	4341.92	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51931	chrY	59018388	.	C	A	214.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
51932	chrY	59018406	.	T	A	14973.72	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
51933	chrY	59018418	.	T	A	35645.31	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
51934	chrY	59018423	.	C	A	372.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
51935	chrY	59018426	.	A	T	16117.17	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
51936	chrY	59018433	.	A	C	92630.80	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
51937	chrY	59018472	.	G	A,T	94037.72	PASS	AC=38,16;AF=0.543,0.229;AN=70;BaseQRankSum
51938	chrY	59018502	.	C	T	7049.54	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
51939	chrY	59018536	.	A	G	12696.78	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51940	chrY	59018550	.	G	A	56276.63	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
51941	chrY	59018568	.	C	A	29648.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51942	chrY	59018569	.	G	T	2771	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51943	chrY	59018588	.	G	A	11700.73	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum
51944	chrY	59018599	.	T	C	2428.62	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum
51945	chrY	59018641	.	G	A	33652.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51946	chrY	59018652	.	C	T	3952.95	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
51947	chrY	59018676	.	C	T	7179.24	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
51948	chrY	59018683	.	G	A	29145.21	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51949	chrY	59018689	.	C	A	47256.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51950	chrY	59018698	.	C	T	31198.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51951	chrY	59018716	.	G	A	25471.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51952	chrY	59018723	.	C	T,G	16715.83	PASS	AC=26,9;AF=0.371,0.129;AN=70;BaseQRankSum
51953	chrY	59018763	.	G	A	62189.85	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
51954	chrY	59018786	.	C	T	47679.32	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum
51955	chrY	59018822	.	T	G	33970.07	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum
51956	chrY	59018834	.	A	C	165.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
51957	chrY	59018842	.	C	A	22328.40	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum
51958	chrY	59018847	.	C	G	3688.61	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum
51959	chrY	59018876	.	G	A	37393.78	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum
51960	chrY	59018910	.	C	T	27349.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
51961	chrY	59018915	.	T	A	174.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
51962	chrY	59018933	.	C	T	89846.62	PASS	AC=45;AF=0.643;AN=70;BaseQRankSum
51963	chrY	59018989	.	A	C	1925.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
51964	chrY	59018994	.	T	G	149.73	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
51965	chrY	59019030	.	A	G	165691.57	PASS	AC=56;AF=0.800;AN=70;BaseQRankSum
51966	chrY	59019037	.	C	T	90.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum
51967	chrY	59019076	.	C	A,T	99729.78	PASS	AC=33,27;AF=0.471,0.386;AN=70;BaseQRankSum
51968	chrY	59019078	.	C	T	1739.88	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum
51969	chrY	59019088	.	C	T	17654.24	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
51970	chrY	59019091	.	G	C	43791.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum
51971	chrY	59019107	.	T	C	379.51	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQRankSum
51972	chrY	59019162	.	C	G	5598.96	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
51973	chrY	59019171	.	T	C	281.42	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum
51974	chrY	59019180	.	G	A	32755.53	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
51975	chrY	59019208	.	C	A	3356.97	PASS	AC=18;AF=0.265;AN=68;BaseQRankSum
51976	chrY	59019260	.	G	A	6121.51	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum
51977	chrY	59019267	.	A	G	49469.34	PASS	AC=43;AF=0.768;AN=56;BaseQRankSum
51978	chrY	59019273	.	A	T	46.93	PASS	AC=2;AF=0.030;AN=66;DP=1869;FS=0.0
51979	chrY	59019415	.	A	G	59460.05	PASS	AC=33;AF=0.500;AN=66;BaseQRankSum
51980	chrY	59019425	.	T	A	5491.03	PASS	AC=15;AF=0.214;AN=70;BaseQRankSum
51981	chrY	59019426	.	A	G	218.02	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum
51982	chrY	59019432	.	C	G	52026	PASS	AC=34;AF=0.500;AN=68;BaseQRankSum
51983	chrY	59019460	.	G	A	537.01	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum
51984	chrY	59019562	.	G	A	2418.13	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum

51985	chrY	59019600	.	G	T	191.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
51986	chrY	59019609	.	A	G	64354.01	PASS	AC=43;AF=0.614;AN=70;Base
51987	chrY	59019670	.	T	C	1109.78	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
51988	chrY	59019689	.	T	C	96414.91	PASS	AC=42;AF=0.600;AN=70;Base
51989	chrY	59019735	.	G	A	82703.22	PASS	AC=37;AF=0.529;AN=70;Base
51990	chrY	59019782	.	G	A	3712.15	my_snp_filter	AC=19;AF=0.271;AN=70;Base
51991	chrY	59019791	.	C	A	12560.68	PASS	AC=24;AF=0.343;AN=70;Base
51992	chrY	59019857	.	T	C	131848.45	PASS	AC=55;AF=0.786;AN=70;Base
51993	chrY	59019861	.	C	T	1036.91	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
51994	chrY	59019880	.	G	A	326.66	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
51995	chrY	59019889	.	C	T	166.07	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
51996	chrY	59019910	.	G	T	8272.57	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
51997	chrY	59019919	.	A	G	3779.82	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
51998	chrY	59019927	.	G	A,C	5401.69	my_snp_filter	AC=20,2;AF=0.286,0.029;AN
51999	chrY	59019977	.	T	C	4677	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
52000	chrY	59019978	.	G	C	28491.72	PASS	AC=35;AF=0.500;AN=70;Base
52001	chrY	59019990	.	G	C	331.32	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52002	chrY	59020046	.	C	G	33902.72	PASS	AC=35;AF=0.500;AN=70;Base
52003	chrY	59020058	.	G	A	22352.64	PASS	AC=31;AF=0.443;AN=70;Base
52004	chrY	59020068	.	T	C	7993	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
52005	chrY	59020070	.	G	A	8464.01	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
52006	chrY	59020166	.	A	G	81727.44	PASS	AC=57;AF=0.814;AN=70;Base
52007	chrY	59020168	.	A	G	7966.12	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum
52008	chrY	59020172	.	C	T	369.44	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52009	chrY	59020187	.	T	C	65.29	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52010	chrY	59020193	.	T	C	4767.37	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum
52011	chrY	59020258	.	G	A	1371.64	my_snp_filter	AC=10;AF=0.143;AN=70;Base
52012	chrY	59020299	.	G	C	9830.22	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
52013	chrY	59020330	.	C	T	29422.72	PASS	AC=35;AF=0.500;AN=70;Base
52014	chrY	59020338	.	C	T	186.52	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52015	chrY	59020363	.	G	A	3906.95	my_snp_filter	AC=22;AF=0.314;AN=70;Base
52016	chrY	59020401	.	C	T	110259.38	PASS	AC=51;AF=0.729;AN=70;Base
52017	chrY	59020424	.	T	C	1701.22	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
52018	chrY	59020455	.	A	G	5198.75	my_snp_filter	AC=22;AF=0.314;AN=70;Base
52019	chrY	59020586	.	A	G	24460.18	PASS	AC=32;AF=0.457;AN=70;Base
52020	chrY	59020595	.	G	T	156.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52021	chrY	59020611	.	C	T	4417.63	my_snp_filter	AC=22;AF=0.314;AN=70;Base
52022	chrY	59020633	.	A	G	692.48	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52023	chrY	59020641	.	G	C	648.25	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52024	chrY	59020650	.	G	C	2402.30	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
52025	chrY	59020658	.	C	T	206362.42	PASS	AC=69;AF=0.986;AN=70;Base
52026	chrY	59020676	.	C	T	32.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52027	chrY	59020693	.	C	T	87.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52028	chrY	59020712	.	C	T	1450.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52029	chrY	59020728	.	A	G	180846.87	PASS	AC=57;AF=0.814;AN=70;Base
52030	chrY	59020736	.	G	T	62.08	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52031	chrY	59020808	.	T	C	97.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52032	chrY	59020818	.	T	C	70146.72	PASS	AC=35;AF=0.500;AN=70;Base
52033	chrY	59020835	.	T	C	1572.84	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum
52034	chrY	59020875	.	G	C	93.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52035	chrY	59020879	.	C	A	933.33	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum
52036	chrY	59020900	.	T	C	19086.72	PASS	AC=35;AF=0.500;AN=70;Base
52037	chrY	59020916	.	G	C	3883.82	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum
52038	chrY	59020928	.	G	A	51.74	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52039	chrY	59020955	.	T	C	9077.33	PASS	AC=9;AF=0.150;AN=60;BaseQRankSum
52040	chrY	59020996	.	C	T	871.93	PASS	AC=6;AF=0.091;AN=66;BaseQRankSum
52041	chrY	59020997	.	T	G	18916.83	PASS	AC=14;AF=0.219;AN=64;Base
52042	chrY	59021020	.	C	T	22315.85	PASS	AC=10;AF=0.200;AN=50;Base
52043	chrY	59021041	.	C	T	54.16	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
52044	chrY	59021073	.	G	A	46.44	PASS	AC=2;AF=0.031;AN=64;BaseQRankSum
52045	chrY	59021086	.	C	T	3402.78	PASS	AC=14;AF=0.212;AN=66;BaseQRankSum
52046	chrY	59021120	.	C	G	44955.44	PASS	AC=56;AF=0.800;AN=70;Base
52047	chrY	59021170	.	G	A	638.27	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52048	chrY	59021173	.	C	T	109.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52049	chrY	59021174	.	A	G	109.05	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52050	chrY	59021176	.	C	T	239.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52051	chrY	59021191	.	T	A	22474.84	PASS	AC=34;AF=0.486;AN=70;Base
52052	chrY	59021197	.	G	A	133.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52053	chrY	59021207	.	T	G	17819.89	PASS	AC=25;AF=0.357;AN=70;Base
52054	chrY	59021209	.	G	A	12339.99	PASS	AC=25;AF=0.357;AN=70;Base
52055	chrY	59021218	.	C	T	697.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52056	chrY	59021219	.	T	G	1357.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52057	chrY	59021222	.	C	T	4821.35	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum
52058	chrY	59021223	.	G	A	2444.56	my_snp_filter	AC=12;AF=0.171;AN=70;Base
52059	chrY	59021246	.	G	A	16552.86	PASS	AC=21;AF=0.300;AN=70;Base
52060	chrY	59021247	.	C	A	30218.84	PASS	AC=34;AF=0.486;AN=70;Base

52061	chrY	59021264	.	C	T	15529.02	PASS	AC=20;AF=0.286;AN=70;BaseQ
52062	chrY	59021300	.	A	C	6775.37	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
52063	chrY	59021311	.	C	A	79240.39	PASS	AC=48;AF=0.686;AN=70;BaseQ
52064	chrY	59021463	.	A	G	476.76	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52065	chrY	59021474	.	T	C	49.24	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52066	chrY	59021500	.	A	G	1060.17	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQ
52067	chrY	59021552	.	C	T	1621.56	my_snp_filter	AC=24;AF=0.343;AN=70;BaseQ
52068	chrY	59021583	.	A	G	22263.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52069	chrY	59021661	.	G	C,*	10054.36	PASS	AC=11,16;AF=0.157,0.229;AN=70;BaseQ
52070	chrY	59021701	.	T	A	5069.26	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
52071	chrY	59021703	.	C	T	122.56	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52072	chrY	59021711	.	A	G	4991.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum
52073	chrY	59021725	.	A	G	33.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52074	chrY	59021736	.	A	G	5806.58	PASS	AC=29;AF=0.414;AN=70;BaseQRankSum
52075	chrY	59021744	.	A	C	2966.22	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum
52076	chrY	59021806	.	A	G,*	9271.42	PASS	AC=24,6;AF=0.343,0.086;AN=70;BaseQ
52077	chrY	59021840	.	C	G	54.06	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52078	chrY	59021849	.	G	A	718.30	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
52079	chrY	59021876	.	G	T	514.15	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum
52080	chrY	59021925	.	C	G	19651.02	PASS	AC=35;AF=0.500;AN=70;BaseQ
52081	chrY	59021950	.	G	C	8897.37	PASS	AC=34;AF=0.486;AN=70;BaseQRankSum
52082	chrY	59021983	.	C	T	12225.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
52083	chrY	59021988	.	T	C	12782.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
52084	chrY	59021997	.	T	G	184.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
52085	chrY	59022101	.	T	A	450.73	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52086	chrY	59022204	.	G	A	7359.58	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum
52087	chrY	59022205	.	G	A	3347.12	PASS	AC=12;AF=0.214;AN=56;BaseQRankSum
52088	chrY	59022257	.	G	A	5794.45	PASS	AC=7;AF=0.184;AN=38;BaseQRankSum
52089	chrY	59022328	.	G	T	332.43	PASS	AC=3;AF=0.068;AN=44;BaseQRankSum
52090	chrY	59022350	.	G	A	585.34	my_snp_filter	AC=4;AF=0.074;AN=54;BaseQ
52091	chrY	59022404	.	A	C	16119.97	PASS	AC=16;AF=0.320;AN=50;BaseQ
52092	chrY	59022426	.	T	C	47.11	my_snp_filter	AC=2;AF=0.029;AN=68;BaseQ
52093	chrY	59022470	.	G	A	6476.96	PASS	AC=23;AF=0.348;AN=66;BaseQRankSum
52094	chrY	59022509	.	T	A	2338.87	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52095	chrY	59022703	.	C	T	3054.48	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
52096	chrY	59022705	.	C	G	979.75	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52097	chrY	59022708	.	A	G	8724.77	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum
52098	chrY	59022718	.	A	G	55824.34	PASS	AC=36;AF=0.514;AN=70;BaseQ
52099	chrY	59022723	.	C	T	56494.38	PASS	AC=35;AF=0.500;AN=70;BaseQ
52100	chrY	59022734	.	C	T	23608.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
52101	chrY	59022768	.	A	G	46565.48	PASS	AC=41;AF=0.586;AN=70;BaseQ
52102	chrY	59022782	.	A	G	8363.30	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
52103	chrY	59022785	.	A	G	529.30	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52104	chrY	59022800	.	C	T	8695.92	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
52105	chrY	59022839	.	G	T	5380.72	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum
52106	chrY	59022922	.	G	C	57029.02	PASS	AC=40;AF=0.571;AN=70;BaseQ
52107	chrY	59022924	.	C	T	5998.91	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
52108	chrY	59022938	.	G	A	461.29	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52109	chrY	59022943	.	G	A,C	8225.41	PASS	AC=20,11;AF=0.286,0.157;AN=70;BaseQ
52110	chrY	59022991	.	T	C	74592.87	PASS	AC=44;AF=0.629;AN=70;BaseQ
52111	chrY	59023079	.	A	C	72514.11	PASS	AC=46;AF=0.657;AN=70;BaseQ
52112	chrY	59023115	.	C	T	22479.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
52113	chrY	59023230	.	T	G	35441.24	PASS	AC=50;AF=0.714;AN=70;BaseQ
52114	chrY	59023281	.	G	A	52.97	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
52115	chrY	59023284	.	G	A	42.04	PASS	AC=1;AF=0.016;AN=64;BaseQRankSum
52116	chrY	59023288	.	A	C,T	10234.08	PASS	AC=16,1;AF=0.258,0.016;AN=70;BaseQ
52117	chrY	59023316	.	C	A	136.12	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
52118	chrY	59023374	.	C	T	27406.15	PASS	AC=9;AF=0.205;AN=44;BaseQ
52119	chrY	59023382	.	G	T	27396.17	PASS	AC=9;AF=0.214;AN=42;BaseQ
52120	chrY	59023402	.	C	T	427.98	my_snp_filter	AC=3;AF=0.056;AN=54;BaseQ
52121	chrY	59023473	.	T	G	316.91	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52122	chrY	59023487	.	G	A	17448.30	PASS	AC=27;AF=0.386;AN=70;BaseQ
52123	chrY	59023528	.	A	C	18974.22	PASS	AC=33;AF=0.471;AN=70;BaseQ
52124	chrY	59023541	.	A	T	3842.61	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
52125	chrY	59023580	.	T	C	35.99	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52126	chrY	59023587	.	T	C	77727.91	PASS	AC=45;AF=0.643;AN=70;BaseQ
52127	chrY	59023612	.	A	G	420.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52128	chrY	59023618	.	C	A	415.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52129	chrY	59023633	.	G	T	34737.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52130	chrY	59023728	.	T	G	111103.86	PASS	AC=70;AF=1.00;AN=70;BaseQ
52131	chrY	59023729	.	T	C	27307.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
52132	chrY	59023770	.	G	A	27313.98	PASS	AC=33;AF=0.471;AN=70;BaseQ
52133	chrY	59023917	.	T	C	10745.91	PASS	AC=23;AF=0.411;AN=56;BaseQ
52134	chrY	59023958	.	G	A	16389.86	PASS	AC=30;AF=0.429;AN=70;BaseQ
52135	chrY	59023962	.	C	A	250.80	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52136	chrY	59024009	.	A	C,*	14503.62	PASS	AC=21,1;AF=0.350,0.017;AN=70;BaseQ

52137	chrY	59024010	.	A	C	313.04	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
52138	chrY	59024019	.	A	G	48694.01	PASS	AC=37;AF=0.561;AN=66;Base
52139	chrY	59024032	.	C	G	13023.23	PASS	AC=23;AF=0.348;AN=66;Base
52140	chrY	59024042	.	G	C	65912.32	PASS	AC=37;AF=0.638;AN=58;Base
52141	chrY	59024097	.	A	C	132.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
52142	chrY	59024125	.	T	C,A	67130.54	PASS	AC=42,1;AF=0.600,0.014;AN
52143	chrY	59024176	.	T	C	51689.44	PASS	AC=40;AF=0.571;AN=70;Base
52144	chrY	59024202	.	A	C	13394.86	PASS	AC=33;AF=0.471;AN=70;Base
52145	chrY	59024222	.	G	T	256.54	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52146	chrY	59024223	.	C	T	1496.47	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
52147	chrY	59024253	.	C	A	12740.36	PASS	AC=33;AF=0.471;AN=70;Base
52148	chrY	59024255	.	T	C	1708.75	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52149	chrY	59024259	.	G	A	62.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52150	chrY	59024265	.	C	T	35.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52151	chrY	59024399	.	T	C	35237.73	PASS	AC=35;AF=0.500;AN=70;Base
52152	chrY	59024419	.	T	C	40767.72	PASS	AC=35;AF=0.500;AN=70;Base
52153	chrY	59024423	.	A	C	450.31	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52154	chrY	59024426	.	G	T	2839.77	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
52155	chrY	59024427	.	G	A	458.31	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52156	chrY	59024436	.	C	A	161.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52157	chrY	59024438	.	C	T	3630.60	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
52158	chrY	59024485	.	T	A	79174.07	PASS	AC=48;AF=0.686;AN=70;Base
52159	chrY	59024487	.	T	C	9210.31	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
52160	chrY	59024488	.	C	T	9450.31	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
52161	chrY	59024505	.	A	T	56.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52162	chrY	59024534	.	A	G	8799.66	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
52163	chrY	59024547	.	A	T	2353.82	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
52164	chrY	59024563	.	T	C	25384.73	PASS	AC=35;AF=0.500;AN=70;Base
52165	chrY	59024573	.	G	A	20944.19	PASS	AC=33;AF=0.471;AN=70;Base
52166	chrY	59024628	.	A	T	14352.84	PASS	AC=34;AF=0.486;AN=70;Base
52167	chrY	59024657	.	C	T	16166.78	PASS	AC=31;AF=0.443;AN=70;Base
52168	chrY	59024664	.	T	C	2056.07	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52169	chrY	59024675	.	G	A	1066.29	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
52170	chrY	59024715	.	T	C	25257.72	PASS	AC=35;AF=0.500;AN=70;Base
52171	chrY	59024744	.	C	G	68486.96	PASS	AC=50;AF=0.714;AN=70;Base
52172	chrY	59024765	.	C	T	483.27	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
52173	chrY	59024836	.	G	T	7130.76	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
52174	chrY	59024845	.	G	A	6143.86	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
52175	chrY	59024852	.	G	A	4996.55	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
52176	chrY	59024856	.	T	C	24771.84	PASS	AC=34;AF=0.486;AN=70;Base
52177	chrY	59024875	.	A	G	582.06	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
52178	chrY	59024889	.	C	G	106932.39	PASS	AC=46;AF=0.657;AN=70;Base
52179	chrY	59024892	.	T	C	2369.64	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52180	chrY	59024895	.	C	T	2346.28	my_snp_filter	AC=11;AF=0.157;AN=70;Base
52181	chrY	59024905	.	G	T	8331.08	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
52182	chrY	59024923	.	A	T	356.02	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52183	chrY	59024948	.	T	C	42459.19	PASS	AC=33;AF=0.471;AN=70;Base
52184	chrY	59024971	.	G	A	105819.87	PASS	AC=47;AF=0.671;AN=70;Base
52185	chrY	59024972	.	A	G	404.49	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
52186	chrY	59025007	.	A	G	1650.41	my_snp_filter	AC=16;AF=0.229;AN=70;BaseQ
52187	chrY	59025087	.	G	A	74.45	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52188	chrY	59025134	.	A	G	2082.02	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
52189	chrY	59025184	.	C	G	268.05	PASS	AC=2;AF=0.029;AN=70;BaseQRankSum=
52190	chrY	59025220	.	G	A	20672.22	PASS	AC=33;AF=0.471;AN=70;Base
52191	chrY	59025246	.	A	C	64004.43	PASS	AC=40;AF=0.571;AN=70;Base
52192	chrY	59025248	.	C	A	74.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52193	chrY	59025250	.	G	A	74.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52194	chrY	59025293	.	C	A	15102.22	PASS	AC=32;AF=0.457;AN=70;Base
52195	chrY	59025339	.	A	G,T	12741.02	PASS	AC=28,17;AF=0.424,0.258;A
52196	chrY	59025373	.	A	G	18207.50	PASS	AC=22;AF=0.407;AN=54;Base
52197	chrY	59025396	.	G	A	16546.38	PASS	AC=14;AF=0.304;AN=46;Base
52198	chrY	59025397	.	T	A	544.30	PASS	AC=5;AF=0.100;AN=50;BaseQRankSum=
52199	chrY	59025553	.	C	A	8500.08	PASS	AC=10;AF=0.333;AN=30;BaseQRankSum=
52200	chrY	59025573	.	G	T	6641.04	PASS	AC=10;AF=0.227;AN=44;BaseQRankSum=
52201	chrY	59025580	.	C	G	641.24	PASS	AC=3;AF=0.056;AN=54;BaseQRankSum=
52202	chrY	59025631	.	G	A	117.67	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52203	chrY	59025663	.	C	T	16170.86	PASS	AC=32;AF=0.457;AN=70;Base
52204	chrY	59025668	.	C	G	50782	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
52205	chrY	59025678	.	T	G	54620.45	PASS	AC=38;AF=0.543;AN=70;Base
52206	chrY	59025687	.	G	A	948.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52207	chrY	59025699	.	C	G	6221.42	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
52208	chrY	59025760	.	G	T	3183.34	my_snp_filter	AC=12;AF=0.171;AN=70;Base
52209	chrY	59025774	.	C	T	16030.46	PASS	AC=28;AF=0.400;AN=70;Base
52210	chrY	59025792	.	A	T	23041.46	PASS	AC=30;AF=0.429;AN=70;Base
52211	chrY	59025844	.	T	C	9859.11	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
52212	chrY	59025909	.	G	T	516.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ

52213	chrY	59025921	.	T	C	15780.72	PASS	AC=34;AF=0.486;AN=70;BaseQ
52214	chrY	59025960	.	C	G	1043.46	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52215	chrY	59025977	.	G	C,*	179.74	my_snp_filter	AC=1,2;AF=0.014,0.029;AN=
52216	chrY	59025998	.	T	C	74801.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52217	chrY	59026001	.	T	C	39.31	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52218	chrY	59026010	.	C	T	23494.16	PASS	AC=27;AF=0.386;AN=70;BaseQ
52219	chrY	59026044	.	T	C	2919.09	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
52220	chrY	59026070	.	C	T	2092.79	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
52221	chrY	59026101	.	A	G	29065.50	PASS	AC=38;AF=0.576;AN=66;BaseQ
52222	chrY	59026107	.	C	T	1936.51	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum
52223	chrY	59026117	.	C	T	5570.10	my_snp_filter	AC=10;AF=0.161;AN=62;BaseQ
52224	chrY	59026118	.	G	A	202.28	my_snp_filter	AC=4;AF=0.065;AN=62;BaseQ
52225	chrY	59026125	.	G	A	189.27	my_snp_filter	AC=3;AF=0.048;AN=62;BaseQ
52226	chrY	59026175	.	A	G	29182.12	PASS	AC=29;AF=0.558;AN=52;BaseQ
52227	chrY	59026192	.	C	T	717.92	PASS	AC=3;AF=0.058;AN=52;BaseQRankSum=
52228	chrY	59026202	.	G	T	29163.71	PASS	AC=22;AF=0.550;AN=40;BaseQ
52229	chrY	59026229	.	G	A,T	14743.73	PASS	AC=14,2;AF=0.292,0.042;AN=
52230	chrY	59026236	.	T	C	32294.91	PASS	AC=31;AF=0.620;AN=50;BaseQ
52231	chrY	59026239	.	C	T	7162.23	PASS	AC=11;AF=0.177;AN=62;BaseQRankSum
52232	chrY	59026245	.	A	C	2589.61	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
52233	chrY	59026251	.	G	A	414.96	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
52234	chrY	59026259	.	C	T	3107.48	PASS	AC=7;AF=0.113;AN=62;BaseQRankSum=
52235	chrY	59026265	.	C	T	925.37	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52236	chrY	59026268	.	C	G	15300.21	PASS	AC=17;AF=0.266;AN=64;BaseQ
52237	chrY	59026286	.	C	A	3403.79	PASS	AC=13;AF=0.197;AN=66;BaseQRankSum
52238	chrY	59026317	.	T	C	13497.57	PASS	AC=28;AF=0.400;AN=70;BaseQ
52239	chrY	59026329	.	C	G	2998.40	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum
52240	chrY	59026374	.	C	T	18605.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52241	chrY	59026375	.	C	T	40.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52242	chrY	59026383	.	G	T	58959.73	PASS	AC=44;AF=0.629;AN=70;BaseQ
52243	chrY	59026457	.	A	G	187.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52244	chrY	59026469	.	A	C	42.81	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52245	chrY	59026508	.	G	A	262.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52246	chrY	59026511	.	A	G	247.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52247	chrY	59026513	.	A	G	67294.79	PASS	AC=47;AF=0.671;AN=70;BaseQ
52248	chrY	59026553	.	G	T	105.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52249	chrY	59026600	.	T	C	1015.83	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
52250	chrY	59026601	.	C	T	148.64	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52251	chrY	59026630	.	T	G	20005.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52252	chrY	59026666	.	C	A	414.84	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52253	chrY	59026667	.	G	A	3869.74	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum
52254	chrY	59026775	.	G	A	28937.32	PASS	AC=36;AF=0.529;AN=68;BaseQ
52255	chrY	59026779	.	T	C	6536.26	PASS	AC=24;AF=0.353;AN=68;BaseQRankSum
52256	chrY	59026840	.	T	G	837.07	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52257	chrY	59026862	.	C	G	34445.42	PASS	AC=31;AF=0.443;AN=70;BaseQ
52258	chrY	59026881	.	A	G	7617.50	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
52259	chrY	59026893	.	T	C	3334.35	PASS	AC=16;AF=0.235;AN=68;BaseQRankSum
52260	chrY	59026894	.	A	G	24867.86	PASS	AC=31;AF=0.456;AN=68;BaseQ
52261	chrY	59026910	.	G	A	33058.69	PASS	AC=33;AF=0.485;AN=68;BaseQ
52262	chrY	59026916	.	T	G	6614.40	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
52263	chrY	59026970	.	A	T	1845.28	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
52264	chrY	59026971	.	A	T	964.92	PASS	AC=5;AF=0.071;AN=70;BaseQRankSum=
52265	chrY	59027039	.	G	A	15380.49	PASS	AC=22;AF=0.314;AN=70;BaseQ
52266	chrY	59027040	.	A	C	32227.08	PASS	AC=26;AF=0.371;AN=70;BaseQ
52267	chrY	59027055	.	G	T	12343.88	PASS	AC=17;AF=0.243;AN=70;BaseQ
52268	chrY	59027058	.	A	G	29975.84	PASS	AC=23;AF=0.348;AN=66;BaseQ
52269	chrY	59027063	.	G	A	11567.64	PASS	AC=16;AF=0.229;AN=70;BaseQ
52270	chrY	59027100	.	G	C	854.93	PASS	AC=3;AF=0.044;AN=68;BaseQRankSum=
52271	chrY	59027107	.	C	A	1503.59	PASS	AC=7;AF=0.103;AN=68;BaseQRankSum=
52272	chrY	59027111	.	G	A	7299.61	PASS	AC=17;AF=0.250;AN=68;BaseQRankSum
52273	chrY	59027191	.	T	C	1186.81	PASS	AC=5;AF=0.081;AN=62;BaseQRankSum=
52274	chrY	59027223	.	C	T	5486.69	PASS	AC=15;AF=0.259;AN=58;BaseQRankSum
52275	chrY	59027229	.	G	A	856.17	PASS	AC=4;AF=0.069;AN=58;BaseQRankSum=
52276	chrY	59027277	.	C	T	9817.01	PASS	AC=21;AF=0.339;AN=62;BaseQRankSum
52277	chrY	59027358	.	G	A	13113.77	PASS	AC=33;AF=0.471;AN=70;BaseQ
52278	chrY	59027384	.	A	C	14573.88	PASS	AC=34;AF=0.486;AN=70;BaseQ
52279	chrY	59027420	.	C	G	12837.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
52280	chrY	59027434	.	G	C	30690.88	PASS	AC=45;AF=0.643;AN=70;BaseQ
52281	chrY	59027512	.	C	G	5100	PASS	AC=10;AF=0.200;AN=50;BaseQRankSum
52282	chrY	59027513	.	G	A	5203.25	PASS	AC=10;AF=0.192;AN=52;BaseQRankSum
52283	chrY	59027525	.	A	G	24003.97	PASS	AC=30;AF=0.429;AN=70;BaseQ
52284	chrY	59027543	.	T	C	443.99	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52285	chrY	59027549	.	C	T	29728.12	PASS	AC=29;AF=0.453;AN=64;BaseQ
52286	chrY	59027554	.	A	T	10181.24	PASS	AC=29;AF=0.414;AN=70;BaseQ
52287	chrY	59027559	.	T	C	10628.91	PASS	AC=29;AF=0.414;AN=70;BaseQ
52288	chrY	59027562	.	C	T	31839.96	PASS	AC=29;AF=0.453;AN=64;BaseQ

52289	chrY	59027575	.	G	C	53955.50	PASS	AC=36;AF=0.529;AN=68;BaseQ
52290	chrY	59027629	.	C	T	23764.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
52291	chrY	59027648	.	G	C	91.13	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52292	chrY	59027650	.	A	G	11049.59	PASS	AC=25;AF=0.357;AN=70;BaseQ
52293	chrY	59027655	.	G	T	26115.36	PASS	AC=33;AF=0.471;AN=70;BaseQ
52294	chrY	59027700	.	A	C	79535.22	PASS	AC=42;AF=0.600;AN=70;BaseQ
52295	chrY	59027721	.	C	A	749.52	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52296	chrY	59027744	.	G	A	52175.73	PASS	AC=33;AF=0.471;AN=70;BaseQ
52297	chrY	59027750	.	G	A	63.38	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52298	chrY	59027751	.	G	A	8067.98	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum
52299	chrY	59027752	.	G	A	24452.86	PASS	AC=31;AF=0.443;AN=70;BaseQ
52300	chrY	59027776	.	T	C	32322.68	PASS	AC=32;AF=0.457;AN=70;BaseQ
52301	chrY	59027809	.	G	A	38794.74	PASS	AC=33;AF=0.471;AN=70;BaseQ
52302	chrY	59027810	.	C	T	35663.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
52303	chrY	59027882	.	T	G	38451.60	PASS	AC=34;AF=0.486;AN=70;BaseQ
52304	chrY	59027886	.	G	A	13936.79	PASS	AC=33;AF=0.471;AN=70;BaseQ
52305	chrY	59027910	.	G	A	62624.77	PASS	AC=37;AF=0.529;AN=70;BaseQ
52306	chrY	59027918	.	G	A	10538.94	PASS	AC=26;AF=0.371;AN=70;BaseQ
52307	chrY	59027920	.	T	C	397.12	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52308	chrY	59027996	.	G	A	3250.59	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
52309	chrY	59028011	.	G	A	37.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52310	chrY	59028022	.	G	A	6245.97	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum
52311	chrY	59028027	.	C	G	230.42	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52312	chrY	59028030	.	C	T	42.67	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52313	chrY	59028036	.	G	C	3691.86	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum
52314	chrY	59028076	.	G	A	923.52	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum
52315	chrY	59028091	.	T	C	62681.01	PASS	AC=37;AF=0.529;AN=70;BaseQ
52316	chrY	59028098	.	C	T	37335.11	PASS	AC=37;AF=0.529;AN=70;BaseQ
52317	chrY	59028171	.	A	C	16693.59	PASS	AC=35;AF=0.500;AN=70;BaseQ
52318	chrY	59028174	.	G	A	31.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52319	chrY	59028192	.	G	T	13107.12	PASS	AC=32;AF=0.457;AN=70;BaseQ
52320	chrY	59028201	.	T	A	42628.35	PASS	AC=41;AF=0.586;AN=70;BaseQ
52321	chrY	59028283	.	T	C	17768.04	PASS	AC=38;AF=0.576;AN=66;BaseQ
52322	chrY	59028357	.	A	C	24311.60	PASS	AC=43;AF=0.614;AN=70;BaseQ
52323	chrY	59028390	.	A	G	12686.46	PASS	AC=34;AF=0.486;AN=70;BaseQ
52324	chrY	59028440	.	G	A	13059.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
52325	chrY	59028442	.	G	A	87.44	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum
52326	chrY	59028446	.	C	G	47346.68	PASS	AC=42;AF=0.600;AN=70;BaseQ
52327	chrY	59028447	.	C	T	394.40	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
52328	chrY	59028468	.	A	T	3191.35	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
52329	chrY	59028502	.	A	G	44770.74	PASS	AC=35;AF=0.500;AN=70;BaseQ
52330	chrY	59028503	.	A	G	74.44	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52331	chrY	59028509	.	T	G	14689.60	PASS	AC=25;AF=0.357;AN=70;BaseQ
52332	chrY	59028517	.	C	T	19009.02	PASS	AC=34;AF=0.486;AN=70;BaseQ
52333	chrY	59028522	.	A	C	43996.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52334	chrY	59028548	.	C	G	8142.38	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum
52335	chrY	59028567	.	T	C	48259.03	PASS	AC=35;AF=0.500;AN=70;BaseQ
52336	chrY	59028583	.	C	A	3252.73	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum
52337	chrY	59028597	.	A	G	1518.52	my_snp_filter	AC=12;AF=0.171;AN=70;BaseQ
52338	chrY	59028610	.	T	C	55784.71	PASS	AC=39;AF=0.557;AN=70;BaseQ
52339	chrY	59028615	.	T	C	150.29	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52340	chrY	59028653	.	C	T	603.26	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQ
52341	chrY	59028663	.	A	T	112629.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52342	chrY	59028671	.	C	T	118593.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52343	chrY	59028684	.	A	G	117383.76	PASS	AC=35;AF=0.500;AN=70;BaseQ
52344	chrY	59028736	.	G	A	34896.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52345	chrY	59028740	.	A	C	69395.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52346	chrY	59028778	.	T	A	6265.89	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum
52347	chrY	59028807	.	A	G	62295.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52348	chrY	59028825	.	G	A	4021.24	PASS	AC=13;AF=0.186;AN=70;BaseQRankSum
52349	chrY	59028833	.	G	T	2856.48	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
52350	chrY	59028906	.	A	T	62.30	PASS	AC=1;AF=0.015;AN=66;BaseQRankSum
52351	chrY	59028919	.	C	A	1401.37	my_snp_filter	AC=8;AF=0.133;AN=60;BaseQ
52352	chrY	59028921	.	T	C	18863.14	PASS	AC=18;AF=0.321;AN=56;BaseQ
52353	chrY	59028941	.	C	G	18290.18	PASS	AC=14;AF=0.318;AN=44;BaseQ
52354	chrY	59028959	.	C	T	20454.33	PASS	AC=15;AF=0.375;AN=40;BaseQ
52355	chrY	59028960	.	G	A	841.49	PASS	AC=5;AF=0.119;AN=42;BaseQRankSum
52356	chrY	59028981	.	C	T	4940.77	PASS	AC=12;AF=0.316;AN=38;BaseQRankSum
52357	chrY	59029022	.	A	G	200.55	my_snp_filter	AC=3;AF=0.107;AN=28;BaseQ
52358	chrY	59029028	.	T	C	12713.91	my_snp_filter	AC=13;AF=0.591;AN=70;BaseQ
52359	chrY	59029057	.	C	G	15951.61	PASS	AC=15;AF=0.577;AN=26;BaseQ
52360	chrY	59029062	.	C	T	4870.69	PASS	AC=12;AF=0.429;AN=28;BaseQRankSum
52361	chrY	59029089	.	C	T	669.02	PASS	AC=5;AF=0.132;AN=38;BaseQRankSum
52362	chrY	59029090	.	G	A	121.36	my_snp_filter	AC=1;AF=0.028;AN=36;BaseQ
52363	chrY	59029106	.	T	C	25145.42	PASS	AC=19;AF=0.679;AN=28;BaseQ
52364	chrY	59029123	.	A	C	17202.25	PASS	AC=11;AF=0.324;AN=34;BaseQ

52365	chrY	59029137	.	G	C	34766.42	PASS	AC=18;AF=0.600;AN=30;BaseQ
52366	chrY	59029208	.	T	G	78.85	my_snp_filter	AC=1;AF=0.021;AN=48;BaseQ
52367	chrY	59029216	.	T	C	4116.01	PASS	AC=8;AF=0.174;AN=46;BaseQRankSum=
52368	chrY	59029225	.	G	A	2487.56	PASS	AC=11;AF=0.229;AN=48;BaseQRankSum=
52369	chrY	59029265	.	C	T	4266.09	PASS	AC=11;AF=0.172;AN=64;BaseQRankSum=
52370	chrY	59029294	.	T	C	34910.90	PASS	AC=53;AF=0.803;AN=66;BaseQ
52371	chrY	59029311	.	G	T	297.41	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
52372	chrY	59029354	.	G	A	4666.23	PASS	AC=20;AF=0.286;AN=70;BaseQRankSum=
52373	chrY	59029363	.	T	C	2418.26	my_snp_filter	AC=19;AF=0.271;AN=70;BaseQ
52374	chrY	59029364	.	G	A	58332.09	PASS	AC=49;AF=0.700;AN=70;BaseQ
52375	chrY	59029406	.	G	A	2321.45	my_snp_filter	AC=17;AF=0.243;AN=70;BaseQ
52376	chrY	59029429	.	G	A	229.74	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52377	chrY	59029507	.	A	G	44781.85	PASS	AC=42;AF=0.600;AN=70;BaseQ
52378	chrY	59029513	.	C	G	3507.78	PASS	AC=26;AF=0.371;AN=70;BaseQRankSum=
52379	chrY	59029543	.	T	C	34073.49	PASS	AC=40;AF=0.571;AN=70;BaseQ
52380	chrY	59029604	.	C	T	669.89	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQ
52381	chrY	59029638	.	G	A	946.97	my_snp_filter	AC=8;AF=0.114;AN=70;BaseQ
52382	chrY	59029642	.	C	T	5720.90	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=
52383	chrY	59029652	.	G	A	20984.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
52384	chrY	59029675	.	G	A	1884.56	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52385	chrY	59029676	.	C	A	975.79	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52386	chrY	59029686	.	A	C	678.44	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52387	chrY	59029701	.	A	T	2433.92	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
52388	chrY	59029728	.	C	T	52192.28	PASS	AC=42;AF=0.600;AN=70;BaseQ
52389	chrY	59029783	.	A	G	34002.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52390	chrY	59029819	.	C	T	131962.11	PASS	AC=41;AF=0.586;AN=70;BaseQ
52391	chrY	59029825	.	T	C	79000.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52392	chrY	59029871	.	G	A	13662.26	PASS	AC=28;AF=0.400;AN=70;BaseQ
52393	chrY	59029881	.	G	A	75.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52394	chrY	59029908	.	C	A	197.49	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQ
52395	chrY	59029911	.	A	T	45376.73	PASS	AC=35;AF=0.500;AN=70;BaseQ
52396	chrY	59029945	.	G	T	45114.72	PASS	AC=33;AF=0.471;AN=70;BaseQ
52397	chrY	59029976	.	G	A	5676.28	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
52398	chrY	59029984	.	C	T	116.42	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52399	chrY	59029992	.	C	G	4910.19	PASS	AC=11;AF=0.157;AN=70;BaseQRankSum=
52400	chrY	59030008	.	A	T	43517.53	PASS	AC=34;AF=0.486;AN=70;BaseQ
52401	chrY	59030023	.	C	T	258.99	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52402	chrY	59030027	.	A	C	36262.84	PASS	AC=34;AF=0.486;AN=70;BaseQ
52403	chrY	59030044	.	T	C	35643.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52404	chrY	59030061	.	A	G	57038.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52405	chrY	59030077	.	T	C	54073.72	PASS	AC=35;AF=0.500;AN=70;BaseQ
52406	chrY	59030091	.	C	G	432.51	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQ
52407	chrY	59030113	.	G	C	10999.30	PASS	AC=28;AF=0.400;AN=70;BaseQ
52408	chrY	59030119	.	C	T	1203.19	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52409	chrY	59030171	.	A	G	2779.43	PASS	AC=10;AF=0.172;AN=58;BaseQRankSum=
52410	chrY	59030174	.	T	G,*	10884.23	PASS	AC=10,13;AF=0.185,0.241;A
52411	chrY	59030175	.	G	A	67.57	PASS	AC=1;AF=0.020;AN=50;BaseQRankSum=
52412	chrY	59030178	.	G	A	2532	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
52413	chrY	59030195	.	G	A	3467.18	PASS	AC=9;AF=0.145;AN=62;BaseQRankSum=
52414	chrY	59030225	.	T	C	713.81	PASS	AC=1;AF=0.016;AN=62;BaseQRankSum=
52415	chrY	59030251	.	A	T	213.93	my_snp_filter	AC=2;AF=0.040;AN=50;BaseQ
52416	chrY	59030257	.	G	C	1335.94	my_snp_filter	AC=6;AF=0.125;AN=48;BaseQ
52417	chrY	59030260	.	C	G	19307.97	PASS	AC=13;AF=0.310;AN=42;BaseQ
52418	chrY	59030268	.	C	T	115.79	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
52419	chrY	59030274	.	C	A	166.72	my_snp_filter	AC=1;AF=0.025;AN=40;BaseQ
52420	chrY	59030280	.	G	A	666.42	PASS	AC=2;AF=0.050;AN=40;BaseQRankSum=
52421	chrY	59030288	.	C	T	15445.37	PASS	AC=11;AF=0.344;AN=32;BaseQ
52422	chrY	59030292	.	G	A	364.41	my_snp_filter	AC=2;AF=0.053;AN=38;BaseQ
52423	chrY	59030298	.	C	T	157.42	my_snp_filter	AC=2;AF=0.067;AN=30;BaseQ
52424	chrY	59030329	.	C	A	8958.75	PASS	AC=9;AF=0.265;AN=34;BaseQRankSum=
52425	chrY	59030337	.	T	C	24511.36	PASS	AC=22;AF=0.688;AN=32;BaseQ
52426	chrY	59030365	.	A	G	48.22	PASS	AC=2;AF=0.032;AN=62;DP=1189;FS=0.
52427	chrY	59030383	.	C	T	595.02	my_snp_filter	AC=5;AF=0.083;AN=60;BaseQ
52428	chrY	59030384	.	G	A	6209.22	PASS	AC=16;AF=0.267;AN=60;BaseQRankSum=
52429	chrY	59030401	.	G	A	4316.26	PASS	AC=9;AF=0.141;AN=64;BaseQRankSum=
52430	chrY	59030405	.	G	T	1117.50	PASS	AC=6;AF=0.088;AN=68;BaseQRankSum=
52431	chrY	59030426	.	G	A	9180.54	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
52432	chrY	59030445	.	G	T	9140.93	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
52433	chrY	59030452	.	A	G	16904.03	PASS	AC=22;AF=0.333;AN=66;BaseQ
52434	chrY	59030511	.	A	G	36.84	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52435	chrY	59030518	.	C	T	801.07	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
52436	chrY	59030539	.	G	A	826.31	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
52437	chrY	59030542	.	C	T	9325.11	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
52438	chrY	59030573	.	T	A	30.32	my_snp_filter	AC=1;AF=0.019;AN=54;BaseQ
52439	chrY	59030589	.	G	T,A	7081.49	PASS	AC=4,12;AF=0.069,0.207;AN=58;BaseQ
52440	chrY	59030625	.	C	T	4613.83	PASS	AC=25;AF=0.357;AN=70;BaseQRankSum=

52441	chrY	59030637	.	T	A	1356.13	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52442	chrY	59030666	.	A	C	10839.30	PASS	AC=33;AF=0.471;AN=70;BaseQRankSum=
52443	chrY	59030673	.	G	A	46058.13	PASS	AC=47;AF=0.671;AN=70;BaseQRankSum=
52444	chrY	59030688	.	T	C	55.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
52445	chrY	59030697	.	T	A	135.37	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
52446	chrY	59030801	.	A	G	153.92	my_snp_filter	AC=4;AF=0.057;AN=70;BaseQRankSum=
52447	chrY	59030876	.	C	T	4014.17	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
52448	chrY	59030877	.	T	G	4017.75	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
52449	chrY	59030899	.	T	G	46564.72	PASS	AC=38;AF=0.543;AN=70;BaseQRankSum=
52450	chrY	59030907	.	G	A	1340.68	PASS	AC=8;AF=0.114;AN=70;BaseQRankSum=
52451	chrY	59030909	.	C	T	156.43	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
52452	chrY	59030910	.	G	T	5934.19	PASS	AC=16;AF=0.229;AN=70;BaseQRankSum=
52453	chrY	59030915	.	T	A	26019.55	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
52454	chrY	59030916	.	G	A	429.95	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52455	chrY	59030922	.	A	G	43013.87	PASS	AC=36;AF=0.514;AN=70;BaseQRankSum=
52456	chrY	59030954	.	G	A	394.62	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
52457	chrY	59030975	.	G	T	1134.65	my_snp_filter	AC=7;AF=0.100;AN=70;BaseQRankSum=
52458	chrY	59030978	.	G	A,C	30969.53	PASS	AC=14,26;AF=0.200,0.371;AN=70;BaseQRankSum=
52459	chrY	59030983	.	C	T	7364.38	PASS	AC=22;AF=0.314;AN=70;BaseQRankSum=
52460	chrY	59030994	.	A	C	230.51	PASS	AC=3;AF=0.043;AN=70;BaseQRankSum=
52461	chrY	59031025	.	G	C	43.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
52462	chrY	59031039	.	G	A	84.99	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQRankSum=
52463	chrY	59031043	.	C	A	1118.76	PASS	AC=6;AF=0.086;AN=70;BaseQRankSum=
52464	chrY	59031064	.	C	T	971.35	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52465	chrY	59031081	.	A	T	3064.83	my_snp_filter	AC=9;AF=0.129;AN=70;BaseQRankSum=
52466	chrY	59031098	.	T	C	9435.14	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
52467	chrY	59031148	.	G	A	3170.91	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
52468	chrY	59031165	.	G	C	10565.04	PASS	AC=31;AF=0.443;AN=70;BaseQRankSum=
52469	chrY	59031238	.	T	C	62.43	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
52470	chrY	59031246	.	C	A	2189.78	my_snp_filter	AC=22;AF=0.314;AN=70;BaseQRankSum=
52471	chrY	59031248	.	T	A	15238.60	PASS	AC=32;AF=0.457;AN=70;BaseQRankSum=
52472	chrY	59031266	.	G	T	113.42	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
52473	chrY	59031282	.	C	G	11218.31	PASS	AC=28;AF=0.400;AN=70;BaseQRankSum=
52474	chrY	59031297	.	A	G	256.09	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQRankSum=
52475	chrY	59031319	.	T	C	4780.92	PASS	AC=18;AF=0.257;AN=70;BaseQRankSum=
52476	chrY	59031328	.	A	G	16938.04	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
52477	chrY	59031393	.	A	G	3308.69	PASS	AC=14;AF=0.200;AN=70;BaseQRankSum=
52478	chrY	59031395	.	T	A	23188.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
52479	chrY	59031439	.	T	A	3062.43	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52480	chrY	59031468	.	A	G	1616.06	my_snp_filter	AC=13;AF=0.186;AN=70;BaseQRankSum=
52481	chrY	59031474	.	G	A	1162.84	my_snp_filter	AC=11;AF=0.157;AN=70;BaseQRankSum=
52482	chrY	59031480	.	A	G	1783.66	my_snp_filter	AC=10;AF=0.143;AN=70;BaseQRankSum=
52483	chrY	59031497	.	G	C	82.43	PASS	AC=1;AF=0.014;AN=70;BaseQRankSum=
52484	chrY	59031513	.	C	G	60983.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
52485	chrY	59031514	.	C	G	60978.72	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
52486	chrY	59031547	.	A	C	49268.73	PASS	AC=40;AF=0.571;AN=70;BaseQRankSum=
52487	chrY	59031566	.	T	A	1710.46	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
52488	chrY	59031582	.	G	A	696.96	my_snp_filter	AC=6;AF=0.086;AN=70;BaseQRankSum=
52489	chrY	59031595	.	C	T	19518.87	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
52490	chrY	59031625	.	A	G	39.80	my_snp_filter	AC=1;AF=0.014;AN=70;BaseQRankSum=
52491	chrY	59031629	.	T	G	14635.78	PASS	AC=30;AF=0.429;AN=70;BaseQRankSum=
52492	chrY	59031636	.	G	T	1125.31	PASS	AC=7;AF=0.100;AN=70;BaseQRankSum=
52493	chrY	59031660	.	T	C	49097.80	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
52494	chrY	59031664	.	T	C	48580.87	PASS	AC=35;AF=0.500;AN=70;BaseQRankSum=
52495	chrY	59031665	.	G	A	11159.03	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
52496	chrY	59031692	.	C	T	15063.64	PASS	AC=23;AF=0.329;AN=70;BaseQRankSum=
52497	chrY	59031708	.	C	T	1999.32	PASS	AC=9;AF=0.129;AN=70;BaseQRankSum=
52498	chrY	59031714	.	G	T	15236.48	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
52499	chrY	59031720	.	C	T	2468.85	PASS	AC=10;AF=0.143;AN=70;BaseQRankSum=
52500	chrY	59031721	.	A	G	19468.45	PASS	AC=24;AF=0.343;AN=70;BaseQRankSum=
52501	chrY	59031761	.	T	C	10758.03	PASS	AC=26;AF=0.382;AN=68;BaseQRankSum=
52502	chrY	59031800	.	G	T	4873.03	PASS	AC=16;AF=0.242;AN=66;BaseQRankSum=
52503	chrY	59031814	.	A	T	1819.28	PASS	AC=6;AF=0.100;AN=60;BaseQRankSum=
52504	chrY	59031829	.	C	T	43.03	PASS	AC=1;AF=0.017;AN=60;BaseQRankSum=
52505	chrY	59031833	.	T	C	2274.57	PASS	AC=7;AF=0.125;AN=56;BaseQRankSum=
52506	chrY	59031861	.	T	G	34421.99	PASS	AC=20;AF=0.625;AN=32;BaseQRankSum=
52507	chrY	59031879	.	C	T	10383.57	PASS	AC=10;AF=0.313;AN=32;BaseQRankSum=
52508	chrY	59031883	.	C	T	1019.46	PASS	AC=3;AF=0.075;AN=40;BaseQRankSum=
52509	chrY	59031944	.	T	C	34293.53	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
52510	chrY	59031945	.	G	A	1289.59	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
52511	chrY	59031959	.	T	C	35278.53	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
52512	chrY	59031972	.	T	A	14279.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
52513	chrY	59031979	.	T	C	33900.01	PASS	AC=10;AF=0.556;AN=18;BaseQRankSum=
52514	chrY	59031986	.	G	C	549.02	PASS	AC=1;AF=0.042;AN=24;BaseQRankSum=
52515	chrY	59032008	.	G	A	3392.69	PASS	AC=6;AF=0.273;AN=22;BaseQRankSum=
52516	chrY	59032040	.	C	T	2697.17	PASS	AC=7;AF=0.318;AN=22;BaseQRankSum=

52517	chrY	59032042	.	C	A	2523.15	PASS	AC=6;AF=0.250;AN=24;BaseQRankSum=
52518	chrY	59032064	.	A	G	26736.50		PASS AC=12;AF=0.600;AN=20;Base
52519	chrY	59032089	.	A	G	13532.37		PASS AC=9;AF=0.300;AN=30;BaseQ
52520	chrY	59032098	.	C	A	3587.12	PASS	AC=9;AF=0.250;AN=36;BaseQRankSum=
52521	chrY	59032171	.	A	G	1379.42	PASS	AC=4;AF=0.074;AN=54;BaseQRankSum=
52522	chrY	59032175	.	T	C	13911.20		PASS AC=10;AF=0.192;AN=52;Base
52523	chrY	59032176	.	G	A	1498.42	PASS	AC=4;AF=0.080;AN=50;BaseQRankSum=
52524	chrY	59032197	.	T	C	12601.12		PASS AC=12;AF=0.250;AN=48;Base
52525	chrY	59032234	.	C	T	1203.24	PASS	AC=5;AF=0.104;AN=48;BaseQRankSum=
52526	chrY	59032331	.	T	C	22578.32		PASS AC=25;AF=0.357;AN=70;Base
52527	chrY	59032340	.	T	C	23838.42		PASS AC=26;AF=0.394;AN=66;Base
52528	chrY	59032364	.	C	T	6663.49	PASS	AC=27;AF=0.386;AN=70;BaseQRankSum=
52529	chrY	59032399	.	A	G	950.33	PASS	AC=12;AF=0.171;AN=70;BaseQRankSum=
52530	chrY	59032417	.	A	T	419.09	my_snp_filter	AC=5;AF=0.071;AN=70;BaseQ
52531	chrY	59032457	.	T	C	71310.58		PASS AC=40;AF=0.571;AN=70;Base
52532	chrY	59032459	.	G	A	2069.74	my_snp_filter	AC=15;AF=0.214;AN=70;Base
52533	chrY	59032481	.	A	C	17339.92		PASS AC=30;AF=0.429;AN=70;Base
52534	chrY	59032483	.	T	C	14132.83		PASS AC=30;AF=0.429;AN=70;Base
52535	chrY	59032498	.	T	A	14799.69		PASS AC=28;AF=0.400;AN=70;Base
52536	chrY	59032555	.	C	T	97081.95		PASS AC=44;AF=0.629;AN=70;Base
52537	chrY	59032561	.	C	A	32687.72		PASS AC=35;AF=0.500;AN=70;Base
52538	chrY	59032602	.	A	C	24376.72		PASS AC=35;AF=0.500;AN=70;Base
52539	chrY	59032665	.	A	G	52302.80		PASS AC=38;AF=0.543;AN=70;Base
52540	chrY	59032685	.	A	C	10335.18		PASS AC=19;AF=0.271;AN=70;Base
52541	chrY	59032750	.	G	C	16931.80		PASS AC=32;AF=0.457;AN=70;Base
52542	chrY	59032761	.	G	A	40973.72		PASS AC=35;AF=0.500;AN=70;Base
52543	chrY	59032785	.	A	G	32881.72		PASS AC=35;AF=0.500;AN=70;Base
52544	chrY	59032788	.	C	G	1522.37	PASS	AC=4;AF=0.057;AN=70;BaseQRankSum=
52545	chrY	59032809	.	A	C	108230.86		PASS AC=42;AF=0.600;AN=70;Base
52546	chrY	59032816	.	C	A	5097.11	PASS	AC=21;AF=0.300;AN=70;BaseQRankSum=
52547	chrY	59032844	.	C	A	27014.72		PASS AC=35;AF=0.500;AN=70;Base
52548	chrY	59032848	.	A	C	1052.61	my_snp_filter	AC=10;AF=0.143;AN=70;Base
52549	chrY	59032861	.	T	G	2647.06	my_snp_filter	AC=15;AF=0.214;AN=70;Base
52550	chrY	59032871	.	C	A	287.16	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52551	chrY	59032893	.	A	G	302.77	my_snp_filter	AC=3;AF=0.043;AN=70;BaseQ
52552	chrY	59032938	.	T	A	3155.08	PASS	AC=19;AF=0.271;AN=70;BaseQRankSum=
52553	chrY	59032945	.	T	C	3622.06	PASS	AC=24;AF=0.364;AN=66;BaseQRankSum=
52554	chrY	59032946	.	T	C	2283.67	PASS	AC=17;AF=0.243;AN=70;BaseQRankSum=
52555	chrY	59032971	.	G	A	156.33	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52556	chrY	59033001	.	C	T	252.92	my_snp_filter	AC=2;AF=0.029;AN=70;BaseQ
52557	chrY	59033016	.	G	T	502.45	my_snp_filter	AC=4;AF=0.061;AN=66;BaseQ
52558	chrY	59033024	.	C	G	455.99	my_snp_filter	AC=3;AF=0.047;AN=64;BaseQ
52559	chrY	59033029	.	C	T	124.55	my_snp_filter	AC=1;AF=0.017;AN=60;BaseQ
52560	chrY	59033032	.	G	A	40.34	my_snp_filter	AC=2;AF=0.032;AN=62;BaseQ
52561	chrY	59033046	.	C	T	9930.19	PASS	AC=14;AF=0.280;AN=50;BaseQRankSum=
52562	chrY	59033052	.	C	T	6219.16	PASS	AC=11;AF=0.183;AN=60;BaseQRankSum=
52563	chrY	59033091	.	C	T	12938.11		PASS AC=13;AF=0.310;AN=42;Base
52564	chrY	59033092	.	G	A	957.14	my_snp_filter	AC=5;AF=0.100;AN=50;BaseQ
52565	chrY	59033093	.	T	C	11676.88		PASS AC=14;AF=0.412;AN=34;Base
52566	chrY	59033099	.	T	A,C	25414.11		PASS AC=11,12;AF=0.423,0.462;A
52567	chrY	59033101	.	C	T	1701.41	PASS	AC=7;AF=0.219;AN=32;BaseQRankSum=
52568	chrY	59033108	.	T	C,*	3335.65	PASS	AC=6,2;AF=0.273,0.091;AN=22;BaseQ
52569	chrY	59033110	.	A	T,C	18142.33		PASS AC=14,3;AF=0.583,0.125;AN=
52570	chrY	59033130	.	A	T	12805.67		my_snp_filter AC=9;AF=0.321;AN=
52571	chrY	59033139	.	T	C	10146.08		PASS AC=13;AF=0.464;AN=28;Base
52572	chrY	59033159	.	A	G	10343.09		my_snp_filter AC=11;AF=0.324;AN=
52573	chrY	59033172	.	C	T	344.41	my_snp_filter	AC=3;AF=0.075;AN=40;BaseQ
52574	chrY	59033175	.	T	C	707.91	my_snp_filter	AC=6;AF=0.158;AN=38;BaseQ
52575	chrY	59033183	.	T	C	342.07	my_snp_filter	AC=3;AF=0.071;AN=42;BaseQ
52576	chrY	59033190	.	C	T	1015.02	PASS	AC=5;AF=0.139;AN=36;BaseQRankSum=
52577	chrY	59033249	.	G	T	447.91	PASS	AC=2;AF=0.063;AN=32;BaseQRankSum=
52578	chrY	59033300	.	C	T	10418.09		PASS AC=9;AF=0.500;AN=18;BaseQ
52579	chrY	59033357	.	A	C	4089.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
52580	chrY	59033361	.	G	A	184.74	my_snp_filter	AC=5;AF=0.278;AN=18;BaseQ
52581	chrY	59033375	.	T	C	3530.09	PASS	AC=9;AF=0.500;AN=18;BaseQRankSum=
52582	chrY	59033432	.	A	C	301.48	PASS	AC=4;AF=0.222;AN=18;BaseQRankSum=
52583	chrY	59033463	.	G	A	703.72	PASS	AC=5;AF=0.278;AN=18;BaseQRankSum=
52584	chrY	59033610	.	C	A	542.58	PASS	AC=5;AF=0.250;AN=20;BaseQRankSum=
52585	chrY	59033638	.	C	A	163.49	PASS	AC=4;AF=0.200;AN=20;BaseQRankSum=
52586	chrY	59033730	.	G	A	3441.86	PASS	AC=18;AF=1.00;AN=18;DP=133;FS=0.0
52587	chrY	59063221	.	C	T	55.98	PASS	AC=4;AF=1.00;AN=4;DP=8;FS=0.000;M
52588								