

Supplementary Table 3. List of differentially methylated regions (n=427 DMRs) identified at FDR < 0.05. Additional details are shown in the table below.

Differentially methylated regions (DMRs)					
<i>Chr.</i>	<i>Start position (bp)</i>	<i>End position (bp)</i>	<i>Number of CpG</i>	<i>Delta in methylation (LEW-WKY)</i>	<i>Length (bp)</i>
10	68,789,190	68,789,566	8	0.388	376
9	65,578,002	65,578,018	9	0.376	16
20	7,471,342	7,471,507	6	-0.411	165
11	85,847,836	85,848,164	8	0.411	328
1	201,199,522	201,200,184	19	-0.393	662
1	135,484,912	135,485,255	43	-0.354	343
14	84,172,871	84,173,390	16	0.493	519
14	84,172,871	84,173,390	16	0.493	519
14	84,172,871	84,173,390	16	0.493	519
14	84,172,871	84,173,390	16	0.493	519
2	244,382,223	244,382,456	6	-0.488	233
9	8,052,044	8,052,235	8	-0.369	191
1	159,315,263	159,315,432	7	-0.397	169
10	91,103,844	91,104,178	9	-0.429	334
1	213,078,596	213,079,072	5	-0.372	476
5	76,087,419	76,088,118	19	-0.449	699
5	76,087,419	76,088,118	19	-0.449	699
1	249,470,979	249,471,171	7	0.356	192
1	47,244,465	47,244,525	5	0.402	60
10	68,549,388	68,549,672	7	-0.379	284
10	68,789,190	68,789,566	8	0.388	376
2	244,286,406	244,286,792	8	0.395	386
2	244,285,393	244,285,537	6	-0.351	144
1	246,217,613	246,217,908	6	-0.422	295
1	246,217,613	246,217,908	6	-0.422	295
7	117,335,736	117,336,128	6	0.346	392
11	85,847,836	85,848,164	8	0.411	328
6	7,949,640	7,949,973	6	0.429	333
7	135,296,975	135,297,088	5	-0.419	113
7	135,296,975	135,297,088	5	-0.419	113
14	84,172,871	84,173,390	16	0.493	519
14	84,172,871	84,173,390	16	0.493	519
14	92,374,023	92,374,031	5	0.373	8

18	71,444,981	71,445,138	7	-0.438	157
18	71,444,981	71,445,138	7	-0.438	157
18	71,444,981	71,445,138	7	-0.438	157
5	155,578,344	155,578,692	7	0.398	348
5	155,446,650	155,447,336	9	0.346	686
5	155,447,682	155,447,726	5	0.357	44
4	117,447,942	117,448,201	6	0.431	259
4	117,447,942	117,448,201	6	0.431	259
4	48,334,740	48,334,986	6	0.377	246
4	48,334,740	48,334,986	6	0.377	246
4	48,334,740	48,334,986	6	0.377	246
8	11,391,719	11,392,350	9	-0.398	631
8	11,391,719	11,392,350	9	-0.398	631
2	244,382,223	244,382,456	6	-0.488	233
9	8,052,044	8,052,235	8	-0.369	191
1	190,990,317	190,990,437	7	-0.648	120
13	44,601,546	44,601,743	6	-0.337	197
13	44,601,546	44,601,743	6	-0.337	197
5	153,336,351	153,336,935	15	-0.432	584
5	153,345,531	153,346,146	13	-0.461	615
5	153,345,531	153,346,146	13	-0.461	615
5	153,336,351	153,336,935	15	-0.432	584
8	75,999,078	75,999,242	8	0.481	164
8	75,999,078	75,999,242	8	0.481	164
1	250,085,410	250,085,533	5	0.347	123
9	65,578,002	65,578,018	9	0.376	16
9	65,578,002	65,578,018	9	0.376	16
9	65,578,002	65,578,018	9	0.376	16
10	91,103,844	91,104,178	9	-0.429	334
2	182,060,749	182,061,173	11	-0.406	424
2	182,060,749	182,061,173	11	-0.406	424
6	115,280,790	115,281,128	9	-0.383	338
5	70,555,077	70,555,215	6	-0.550	138
5	70,555,077	70,555,215	6	-0.550	138
5	76,087,419	76,088,118	19	-0.449	699
1	249,470,979	249,471,171	7	0.356	192
1	249,470,979	249,471,171	7	0.356	192
1	249,470,979	249,471,171	7	0.356	192

3	134,342,611	134,342,621	6	0.426	10
3	134,416,266	134,416,684	9	0.400	418
4	157,369,967	157,369,979	7	0.382	12
5	154,761,710	154,762,122	14	0.363	412
15	9,324,042	9,324,638	8	-0.392	596
15	9,324,042	9,324,638	8	-0.392	596
11	74,423,528	74,423,536	5	0.352	8
1	196,783,603	196,784,043	11	0.379	440
1	196,783,603	196,784,043	11	0.379	440
16	7,121,594	7,121,762	6	-0.490	168
20	13,130,833	13,131,181	5	-0.337	348
20	7,471,342	7,471,507	6	-0.411	165
20	7,471,342	7,471,507	6	-0.411	165
13	48,283,546	48,283,871	5	0.436	325
13	48,283,546	48,283,871	5	0.436	325
11	85,847,836	85,848,164	8	0.411	328
11	85,847,836	85,848,164	8	0.411	328
11	85,847,836	85,848,164	8	0.411	328
1	201,199,522	201,200,184	19	-0.393	662
5	160,519,056	160,519,506	8	-0.397	450
1	186,478,917	186,479,089	6	-0.335	172
2	244,285,393	244,285,537	6	-0.351	144
10	91,103,844	91,104,178	9	-0.429	334
5	76,203,959	76,203,980	5	0.335	21
1	159,315,263	159,315,432	7	-0.397	169
1	213,078,596	213,079,072	5	-0.372	476
11	85,847,836	85,848,164	8	0.411	328
1	201,199,522	201,200,184	19	-0.393	662
10	91,103,844	91,104,178	9	-0.429	334
10	45,286,705	45,286,953	6	-0.338	248
10	45,286,705	45,286,953	6	-0.338	248
10	45,286,705	45,286,953	6	-0.338	248
10	45,286,705	45,286,953	6	-0.338	248
10	45,286,705	45,286,953	6	-0.338	248
10	45,286,705	45,286,953	6	-0.338	248
8	85,309,118	85,309,328	5	0.417	210
8	85,309,118	85,309,328	5	0.417	210
8	126,281,337	126,281,606	6	0.360	269

8	126,281,337	126,281,606	6	0.360	269
8	126,281,337	126,281,606	6	0.360	269
8	126,281,337	126,281,606	6	0.360	269
9	86,786,809	86,786,843	5	-0.439	34
2	22,695,411	22,696,273	19	0.372	862
7	80,606,707	80,606,758	7	-0.406	51
19	50,424,154	50,424,775	12	-0.347	621
3	33,805,390	33,805,520	6	0.354	130
8	59,704,529	59,704,768	5	-0.553	239
X	12,543,997	12,544,127	9	-0.359	130
X	12,543,997	12,544,127	9	-0.359	130
7	31,729,909	31,729,925	5	0.631	16
13	66,828,295	66,828,461	8	0.354	166
13	66,828,295	66,828,461	8	0.354	166
3	134,626,281	134,626,603	6	-0.472	322
3	134,626,281	134,626,603	6	-0.472	322
3	134,626,281	134,626,603	6	-0.472	322
1	253,035,706	253,035,897	8	-0.356	191
1	253,035,706	253,035,897	8	-0.356	191
8	113,765,414	113,765,749	5	0.449	335
16	82,838,635	82,838,679	5	0.460	44
16	82,838,635	82,838,679	5	0.460	44
1	41,153,148	41,153,356	5	0.389	208
7	140,097,766	140,098,056	16	-0.381	290
7	140,097,766	140,098,056	16	-0.381	290
7	140,097,766	140,098,056	16	-0.381	290
7	140,097,766	140,098,056	16	-0.381	290
11	68,731,193	68,731,412	5	0.412	219
11	68,731,193	68,731,412	5	0.412	219
11	68,731,193	68,731,412	5	0.412	219
4	87,163,138	87,163,811	7	-0.387	673
4	87,163,138	87,163,811	7	-0.387	673
2	145,004,434	145,005,279	9	-0.501	845
2	145,004,434	145,005,279	9	-0.501	845
4	184,204,699	184,204,723	5	0.362	24
1	171,743,067	171,743,305	5	-0.556	238
1	171,993,800	171,994,086	13	0.679	286
14	81,650,728	81,650,744	6	0.415	16

14	81,650,728	81,650,744	6	0.415	16
18	78,990,391	78,991,032	8	0.404	641
18	78,990,391	78,991,032	8	0.404	641
1	8,656,997	8,657,837	9	0.348	840
1	8,658,157	8,658,360	7	0.385	203
1	8,687,740	8,687,867	5	-0.360	127
1	135,484,912	135,485,255	43	-0.354	343
1	135,484,912	135,485,255	43	-0.354	343
1	135,484,912	135,485,255	43	-0.354	343
X	21,065,942	21,065,954	7	0.366	12
X	21,065,942	21,065,954	7	0.366	12
X	21,065,942	21,065,954	7	0.366	12
X	21,065,942	21,065,954	7	0.366	12
X	21,065,942	21,065,954	7	0.366	12
X	21,065,942	21,065,954	7	0.366	12
8	51,013,364	51,014,520	26	-0.363	1156
4	78,570,503	78,570,515	6	-0.361	12
4	78,570,503	78,570,515	6	-0.361	12
4	78,570,503	78,570,515	6	-0.361	12
1	201,692,359	201,692,898	6	-0.431	539
1	201,692,359	201,692,898	6	-0.431	539
1	201,692,359	201,692,898	6	-0.431	539
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
7	127,373,180	127,373,588	10	0.343	408
1	260,004,778	260,005,055	5	0.433	277
1	260,004,778	260,005,055	5	0.433	277
1	260,004,778	260,005,055	5	0.433	277
1	13,385,349	13,385,499	8	-0.393	150
1	13,482,975	13,483,125	7	-0.389	150
6	99,479,034	99,479,581	17	0.353	547
12	35,455,412	35,455,802	6	-0.440	390
19	57,252,546	57,252,576	5	-0.351	30

19	57,252,546	57,252,576	5	-0.351	30
19	57,252,546	57,252,576	5	-0.351	30
19	57,252,546	57,252,576	5	-0.351	30
5	62,025,389	62,025,405	6	-0.421	16
1	220,502,532	220,502,663	5	0.350	131
1	220,502,532	220,502,663	5	0.350	131
14	44,839,477	44,839,645	6	-0.433	168
7	32,705,794	32,706,239	6	-0.364	445
16	82,879,993	82,880,104	5	0.422	111
11	68,600,018	68,600,266	8	0.430	248
11	68,600,018	68,600,266	8	0.430	248
11	68,600,018	68,600,266	8	0.430	248
11	68,600,018	68,600,266	8	0.430	248
3	10,211,987	10,212,102	6	0.379	115
8	77,853,419	77,853,528	5	0.609	109
9	86,654,956	86,654,984	7	-0.648	28
9	86,654,956	86,654,984	7	-0.648	28
6	23,978,590	23,978,604	8	0.346	14
16	47,600,289	47,600,899	9	0.362	610
16	47,600,289	47,600,899	9	0.362	610
16	47,600,289	47,600,899	9	0.362	610
19	49,647,060	49,647,070	6	0.579	10
2	145,004,434	145,005,279	9	-0.501	845
15	3,439,316	3,439,583	9	-0.349	267
15	3,418,049	3,418,278	6	0.511	229
3	77,663,111	77,663,297	6	-0.350	186
2	235,373,912	235,374,163	7	0.345	251
20	9,687,919	9,688,761	13	-0.346	842
1	168,052,289	168,052,458	6	-0.447	169
12	12,549,437	12,549,914	14	-0.446	477
10	109,943,346	109,943,368	10	0.493	22
1	226,659,436	226,659,448	7	0.391	12
1	135,046,891	135,047,432	13	-0.363	541
2	1,577,669	1,578,072	17	0.522	403
2	1,577,669	1,578,072	17	0.522	403
2	1,577,669	1,578,072	17	0.522	403
2	1,577,669	1,578,072	17	0.522	403
12	6,607,459	6,607,658	6	-0.334	199

3	24,798,384	24,798,968	6	0.354	584
15	53,811,079	53,811,208	7	0.385	129
8	114,018,335	114,018,391	5	0.375	56
8	114,018,335	114,018,391	5	0.375	56
8	114,018,335	114,018,391	5	0.375	56
6	109,561,731	109,561,820	5	-0.339	89
6	109,561,731	109,561,820	5	-0.339	89
1	248,664,997	248,665,070	7	-0.439	73
1	248,664,997	248,665,070	7	-0.439	73
2	22,695,411	22,696,273	19	0.372	862
3	2,646,042	2,646,338	8	0.354	296
5	57,621,245	57,621,429	5	0.372	184
5	57,621,245	57,621,429	5	0.372	184
5	57,621,245	57,621,429	5	0.372	184
5	57,621,245	57,621,429	5	0.372	184
17	64,161,533	64,161,805	7	0.347	272
17	64,161,533	64,161,805	7	0.347	272
5	128,444,856	128,444,864	5	-0.453	8
5	128,444,856	128,444,864	5	-0.453	8
5	128,444,856	128,444,864	5	-0.453	8
4	174,510,556	174,510,687	6	0.422	131
4	174,377,854	174,377,909	8	0.553	55
7	138,463,613	138,463,755	7	-0.415	142
7	138,463,613	138,463,755	7	-0.415	142
12	1,553,097	1,553,639	7	0.336	542
12	40,645,872	40,646,855	13	0.451	983
9	104,717,293	104,717,671	8	-0.410	378
3	117,132,673	117,132,776	7	-0.559	103
2	35,616,505	35,616,811	5	-0.445	306
16	19,179,611	19,179,700	5	0.396	89
16	19,179,611	19,179,700	5	0.396	89
16	19,179,611	19,179,700	5	0.396	89
12	9,798,096	9,798,528	5	0.382	432
20	11,657,538	11,657,779	5	0.341	241
5	159,782,313	159,782,474	5	0.421	161
6	123,615,494	123,615,931	5	0.344	437
2	140,674,350	140,674,943	6	0.451	593
2	140,674,350	140,674,943	6	0.451	593

X	80,860,449	80,860,804	5	0.549	355
14	80,780,951	80,781,311	7	-0.376	360
14	80,780,951	80,781,311	7	-0.376	360
14	80,780,951	80,781,311	7	-0.376	360
12	34,936,105	34,936,445	12	-0.392	340
12	34,936,105	34,936,445	12	-0.392	340
12	34,936,105	34,936,445	12	-0.392	340
12	34,936,105	34,936,445	12	-0.392	340
12	34,936,105	34,936,445	12	-0.392	340
16	81,097,893	81,097,901	5	0.428	8
1	78,484,675	78,484,717	11	0.516	42
4	124,660,465	124,660,479	7	0.479	14
3	146,662,303	146,662,850	6	0.348	547
3	146,662,303	146,662,850	6	0.348	547
10	78,981,800	78,981,895	5	-0.492	95
13	80,183,729	80,184,045	7	0.398	316
8	123,565,017	123,565,083	5	0.411	66
8	51,883,825	51,883,881	5	0.386	56
10	65,245,219	65,245,537	8	0.368	318
10	65,245,219	65,245,537	8	0.368	318
10	65,245,219	65,245,537	8	0.368	318
5	77,941,785	77,941,939	6	0.354	154
5	77,935,978	77,936,652	9	0.484	674
5	77,941,785	77,941,939	6	0.354	154
5	77,935,978	77,936,652	9	0.484	674
18	72,578,834	72,578,888	9	-0.350	54
X	12,543,997	12,544,127	9	-0.359	130
X	12,543,997	12,544,127	9	-0.359	130
10	65,609,330	65,609,916	6	-0.381	586
10	65,609,330	65,609,916	6	-0.381	586
10	65,609,330	65,609,916	6	-0.381	586
10	65,609,330	65,609,916	6	-0.381	586
1	189,786,754	189,786,764	6	0.477	10
1	189,786,754	189,786,764	6	0.477	10
1	189,786,754	189,786,764	6	0.477	10
1	189,786,754	189,786,764	6	0.477	10
10	90,071,670	90,071,742	5	0.375	72
10	90,071,670	90,071,742	5	0.375	72

10	90,071,670	90,071,742	5	0.375	72
10	90,071,670	90,071,742	5	0.375	72
5	152,236,112	152,236,164	7	0.349	52
5	152,236,112	152,236,164	7	0.349	52
5	152,236,112	152,236,164	7	0.349	52
8	59,855,879	59,856,223	15	0.440	344
10	98,799,254	98,799,270	8	0.380	16
15	59,738,222	59,738,294	7	-0.404	72
15	59,738,222	59,738,294	7	-0.404	72
2	38,088,240	38,088,351	5	-0.385	111
2	38,088,240	38,088,351	5	-0.385	111
2	181,737,034	181,737,215	8	0.661	181
13	86,648,810	86,649,168	10	0.527	358
9	11,843,013	11,843,287	5	0.357	274
9	11,843,013	11,843,287	5	0.357	274
3	18,998,300	18,998,479	6	-0.407	179
18	72,117,718	72,117,864	7	-0.374	146
18	72,117,718	72,117,864	7	-0.374	146
17	10,919,087	10,919,658	8	-0.479	571
9	73,664,086	73,664,354	6	0.430	268
9	73,664,086	73,664,354	6	0.430	268
9	73,664,086	73,664,354	6	0.430	268
1	85,260,131	85,260,301	10	-0.356	170
1	85,260,131	85,260,301	10	-0.356	170
5	130,486,383	130,486,577	5	-0.344	194
5	130,486,383	130,486,577	5	-0.344	194
5	130,486,383	130,486,577	5	-0.344	194
4	131,861,600	131,861,612	7	0.542	12
5	157,136,872	157,137,311	5	0.366	439
14	5,382,213	5,382,382	7	-0.472	169
3	106,195,835	106,195,926	11	-0.347	91
3	106,195,835	106,195,926	11	-0.347	91
3	106,195,835	106,195,926	11	-0.347	91
9	38,628,169	38,628,423	5	0.467	254
13	91,565,229	91,565,370	18	0.378	141
13	91,565,229	91,565,370	18	0.378	141
1	78,860,567	78,860,597	7	-0.359	30
9	63,532,978	63,533,535	6	0.352	557

9	63,532,978	63,533,535	6	0.352	557
2	178,059,485	178,060,000	14	-0.539	515
12	43,695,393	43,695,467	8	-0.448	74
12	43,695,393	43,695,467	8	-0.448	74
7	137,954,632	137,954,786	6	-0.493	154
7	137,954,632	137,954,786	6	-0.493	154
2	34,066,465	34,066,636	5	0.601	171
1	135,132,836	135,133,153	7	0.350	317
1	233,041,339	233,041,381	6	0.339	42
3	106,583,026	106,583,192	5	0.397	166
3	106,583,026	106,583,192	5	0.397	166
3	106,583,026	106,583,192	5	0.397	166
3	106,583,026	106,583,192	5	0.397	166
15	12,704,935	12,705,277	17	-0.369	342
14	6,269,076	6,269,525	5	0.344	449
14	6,269,076	6,269,525	5	0.344	449
9	6,207,562	6,208,474	12	0.440	912
2	180,479,749	180,479,914	11	0.346	165
2	180,479,749	180,479,914	11	0.346	165
2	180,479,749	180,479,914	11	0.346	165
10	109,175,668	109,175,915	5	0.365	247
18	66,163,003	66,163,230	6	-0.549	227
18	66,163,003	66,163,230	6	-0.549	227
17	20,918,246	20,918,432	5	-0.340	186
17	20,918,246	20,918,432	5	-0.340	186
4	171,094,497	171,094,719	8	-0.408	222
4	171,094,497	171,094,719	8	-0.408	222
3	146,234,643	146,234,787	5	0.371	144
3	156,326,796	156,327,497	13	0.406	701
3	156,326,796	156,327,497	13	0.406	701
3	156,326,796	156,327,497	13	0.406	701
3	156,326,796	156,327,497	13	0.406	701
3	156,326,796	156,327,497	13	0.406	701
3	156,326,796	156,327,497	13	0.406	701
2	61,695,657	61,696,249	6	0.446	592
2	61,695,657	61,696,249	6	0.446	592
7	131,754,601	131,754,725	6	0.351	124
7	131,754,601	131,754,725	6	0.351	124

7	131,754,601	131,754,725	6	0.351	124
14	13,939,390	13,939,747	11	-0.480	357
14	13,939,390	13,939,747	11	-0.480	357
3	106,195,835	106,195,926	11	-0.347	91
8	119,646,817	119,647,031	6	0.349	214
8	119,646,817	119,647,031	6	0.349	214
12	27,416,189	27,416,464	5	-0.381	275
8	115,452,205	115,452,697	11	-0.374	492
20	28,107,316	28,107,691	5	0.435	375
20	28,107,316	28,107,691	5	0.435	375
20	28,107,316	28,107,691	5	0.435	375
20	28,107,316	28,107,691	5	0.435	375
2	44,238,738	44,239,261	14	-0.579	523
2	44,238,738	44,239,261	14	-0.579	523
2	44,238,738	44,239,261	14	-0.579	523
12	15,707,093	15,707,797	14	-0.454	704
12	15,764,023	15,764,382	11	0.525	359
12	15,790,165	15,790,299	5	-0.387	134
12	15,790,165	15,790,299	5	-0.387	134
20	13,999,066	13,999,393	9	0.447	327
20	13,999,066	13,999,393	9	0.447	327
20	13,615,192	13,615,788	12	-0.394	596
20	13,615,192	13,615,788	12	-0.394	596
16	79,495,038	79,495,122	6	-0.442	84
15	24,229,425	24,229,701	11	0.378	276
15	24,355,228	24,355,439	9	0.362	211
9	102,117,225	102,117,401	5	0.349	176
16	75,913,439	75,913,779	7	-0.485	340
16	75,912,740	75,912,945	5	-0.406	205
3	74,824,354	74,825,183	20	-0.369	829
3	74,828,873	74,829,413	7	-0.359	540
3	74,824,354	74,825,183	20	-0.369	829
3	74,828,873	74,829,413	7	-0.359	540
3	74,824,354	74,825,183	20	-0.369	829
3	74,824,354	74,825,183	20	-0.369	829
3	74,824,354	74,825,183	20	-0.369	829
3	74,824,354	74,825,183	20	-0.369	829
1	84,804,987	84,805,205	20	-0.336	218

1	26,632,252	26,632,340	7	0.374	88
6	110,369,199	110,369,777	6	-0.423	578
6	110,369,199	110,369,777	6	-0.423	578
16	81,401,972	81,402,211	6	0.339	239
16	81,401,972	81,402,211	6	0.339	239
16	81,401,972	81,402,211	6	0.339	239
16	81,401,972	81,402,211	6	0.339	239
4	9,571,948	9,572,255	8	0.525	307
4	9,571,948	9,572,255	8	0.525	307
2	9,683,275	9,683,540	5	-0.388	265
2	9,683,275	9,683,540	5	-0.388	265
5	169,268,017	169,268,674	15	-0.405	657
8	32,210,435	32,210,821	6	-0.446	386
8	32,210,435	32,210,821	6	-0.446	386
1	15,755,426	15,755,560	5	-0.524	134
1	15,755,426	15,755,560	5	-0.524	134
4	10,024,644	10,024,770	5	-0.468	126
4	10,024,644	10,024,770	5	-0.468	126
4	10,024,644	10,024,770	5	-0.468	126
4	10,024,644	10,024,770	5	-0.468	126
4	165,692,804	165,694,575	31	-0.490	1771
16	54,381,850	54,381,868	10	0.436	18
16	54,381,850	54,381,868	10	0.436	18
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
10	82,763,325	82,763,338	6	-0.344	13
19	52,196,706	52,197,193	6	0.351	487
19	52,196,706	52,197,193	6	0.351	487
19	52,196,706	52,197,193	6	0.351	487
12	15,764,023	15,764,382	11	0.525	359
18	3,768,667	3,769,240	9	0.482	573
4	125,998,194	125,998,479	5	0.344	285
4	125,998,194	125,998,479	5	0.344	285
4	125,998,194	125,998,479	5	0.344	285

2	28,673,047	28,673,172	5	0.339	125
2	28,673,047	28,673,172	5	0.339	125
19	14,329,022	14,329,481	6	-0.545	459
16	17,385,924	17,386,108	5	0.445	184
15	85,308,726	85,308,883	6	-0.364	157
10	105,374,123	105,374,195	8	-0.346	72
10	105,374,123	105,374,195	8	-0.346	72
4	119,369,777	119,369,982	14	-0.396	205
12	39,448,249	39,448,449	6	-0.452	200
1	149,750,872	149,750,993	9	-0.458	121
14	6,356,207	6,356,495	11	-0.362	288
14	6,356,207	6,356,495	11	-0.362	288
14	6,356,207	6,356,495	11	-0.362	288
14	6,356,615	6,356,750	8	-0.426	135
2	196,341,870	196,341,884	8	-0.400	14
2	196,341,870	196,341,884	8	-0.400	14
14	17,244,290	17,244,481	6	0.497	191
1	85,488,421	85,488,435	8	0.492	14
3	11,927,412	11,927,814	13	0.411	402
3	11,926,832	11,927,335	9	0.402	503
3	11,926,832	11,927,335	9	0.402	503
3	11,927,412	11,927,814	13	0.411	402
13	86,843,953	86,844,345	14	0.385	392
5	167,653,998	167,654,703	10	0.338	705
5	167,653,998	167,654,703	10	0.338	705
5	167,653,998	167,654,703	10	0.338	705
4	152,223,076	152,223,326	13	0.371	250
2	158,544,156	158,544,470	6	-0.337	314
2	158,544,156	158,544,470	6	-0.337	314
4	132,723,375	132,723,783	5	0.396	408
4	132,723,375	132,723,783	5	0.396	408
4	132,723,375	132,723,783	5	0.396	408
4	132,723,375	132,723,783	5	0.396	408
4	132,723,375	132,723,783	5	0.396	408
20	43,225,888	43,226,000	8	-0.379	112
3	76,043,237	76,043,253	5	-0.366	16
3	76,043,237	76,043,253	5	-0.366	16
4	43,446,992	43,447,407	7	0.361	415

15	106,634,572	106,635,098	15	0.408	526
15	106,634,572	106,635,098	15	0.408	526
15	106,634,572	106,635,098	15	0.408	526
2	43,094,592	43,094,640	5	-0.363	48
2	43,094,592	43,094,640	5	-0.363	48
5	160,519,056	160,519,506	8	-0.397	450
5	145,416,806	145,417,028	5	0.347	222
5	145,416,806	145,417,028	5	0.347	222
3	7,518,937	7,519,003	7	-0.417	66
3	7,518,937	7,519,003	7	-0.417	66
1	13,482,975	13,483,125	7	-0.389	150
1	13,385,349	13,385,499	8	-0.393	150
9	105,784,405	105,784,477	6	-0.334	72
9	105,784,405	105,784,477	6	-0.334	72
11	73,148,688	73,149,325	8	-0.451	637
11	73,148,688	73,149,325	8	-0.451	637
11	73,148,688	73,149,325	8	-0.451	637
10	109,943,346	109,943,368	10	0.493	22
19	25,294,221	25,294,233	7	-0.381	12
19	25,294,221	25,294,233	7	-0.381	12
19	25,294,221	25,294,233	7	-0.381	12
19	25,294,221	25,294,233	7	-0.381	12
13	32,716,102	32,716,112	5	0.341	10
19	49,647,060	49,647,070	6	0.579	10
5	106,180,308	106,180,496	6	-0.398	188
5	106,180,308	106,180,496	6	-0.398	188
8	48,907,712	48,908,091	14	0.358	379
4	9,281,121	9,281,523	6	-0.416	402
12	7,891,573	7,891,813	5	0.335	240
12	1,553,097	1,553,639	7	0.336	542
12	1,553,097	1,553,639	7	0.336	542
8	127,592,365	127,592,890	10	-0.345	525
1	190,109,264	190,109,698	5	0.396	434
1	190,109,264	190,109,698	5	0.396	434
1	190,109,264	190,109,698	5	0.396	434
1	190,109,264	190,109,698	5	0.396	434
19	27,914,152	27,914,162	6	0.417	10
19	27,914,152	27,914,162	6	0.417	10

4	128,382,442	128,382,706	9	-0.342	264
9	93,099,777	93,100,101	8	-0.445	324
5	51,222,488	51,222,685	11	-0.477	197
20	43,615,512	43,615,894	6	-0.450	382
20	43,615,512	43,615,894	6	-0.450	382
20	13,116,540	13,116,574	5	-0.367	34
13	67,547,358	67,547,424	5	0.355	66
13	67,547,358	67,547,424	5	0.355	66
18	3,690,233	3,690,589	5	-0.589	356
X	55,968,370	55,968,378	5	0.384	8
2	236,071,082	236,071,368	5	0.336	286
16	80,742,163	80,742,175	6	0.529	12
16	80,742,163	80,742,175	6	0.529	12
4	5,555,894	5,556,025	5	0.372	131
4	5,532,365	5,532,379	8	0.461	14
13	78,223,568	78,223,715	7	0.404	147
13	78,223,568	78,223,715	7	0.404	147
13	78,223,568	78,223,715	7	0.404	147
17	27,484,076	27,484,225	5	-0.341	149
17	27,484,076	27,484,225	5	-0.341	149
17	27,484,076	27,484,225	5	-0.341	149
17	27,484,076	27,484,225	5	-0.341	149
17	11,515,323	11,515,494	8	-0.359	171
17	11,700,172	11,700,198	5	-0.399	26
17	11,515,323	11,515,494	8	-0.359	171
17	11,515,323	11,515,494	8	-0.359	171
17	11,700,172	11,700,198	5	-0.399	26
17	11,700,172	11,700,198	5	-0.399	26
17	11,700,172	11,700,198	5	-0.399	26
1	67,874,705	67,874,719	7	0.440	14
4	156,324,291	156,324,374	7	-0.452	83
4	156,324,291	156,324,374	7	-0.452	83
4	156,324,291	156,324,374	7	-0.452	83
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153

3	58,744,434	58,744,587	6	-0.380	153
3	58,811,112	58,811,251	6	-0.480	139
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153
3	58,811,112	58,811,251	6	-0.480	139
3	58,811,112	58,811,251	6	-0.480	139
3	58,811,112	58,811,251	6	-0.480	139
3	58,811,112	58,811,251	6	-0.480	139
3	58,744,434	58,744,587	6	-0.380	153
3	58,744,434	58,744,587	6	-0.380	153
10	91,035,530	91,036,093	7	0.346	563
17	74,844,539	74,844,597	5	0.485	58
17	74,844,539	74,844,597	5	0.485	58
17	74,844,539	74,844,597	5	0.485	58
7	140,328,857	140,329,301	13	0.363	444
7	140,328,857	140,329,301	13	0.363	444
1	4,482,029	4,482,589	13	-0.422	560
1	4,482,029	4,482,589	13	-0.422	560
1	4,482,029	4,482,589	13	-0.422	560
9	53,273,093	53,273,281	5	0.358	188
9	102,657,097	102,657,641	7	0.477	544
9	102,657,097	102,657,641	7	0.477	544
9	102,645,538	102,645,707	9	0.390	169
9	102,657,097	102,657,641	7	0.477	544
9	102,645,538	102,645,707	9	0.390	169
9	102,645,538	102,645,707	9	0.390	169
1	72,948,735	72,949,173	7	0.343	438
1	72,948,735	72,949,173	7	0.343	438
1	72,948,735	72,949,173	7	0.343	438
1	72,948,735	72,949,173	7	0.343	438
14	85,664,714	85,664,724	5	0.398	10
14	85,664,714	85,664,724	5	0.398	10
14	85,664,714	85,664,724	5	0.398	10
3	8,384,925	8,384,981	8	0.400	56
5	168,166,762	168,166,981	10	0.379	219
5	168,166,762	168,166,981	10	0.379	219
5	168,166,586	168,166,718	8	0.354	132
5	168,166,586	168,166,718	8	0.354	132

1	253,197,702	253,198,238	7	-0.437	536
9	46,496,245	46,496,409	5	0.341	164
9	46,496,245	46,496,409	5	0.341	164
5	156,688,729	156,688,955	7	0.342	226
5	156,688,729	156,688,955	7	0.342	226
4	182,691,906	182,691,978	5	-0.345	72
4	182,692,109	182,692,327	7	-0.364	218
4	182,692,109	182,692,327	7	-0.364	218
4	182,691,906	182,691,978	5	-0.345	72
5	157,990,487	157,990,785	5	0.378	298
5	157,990,487	157,990,785	5	0.378	298
5	157,990,487	157,990,785	5	0.378	298
5	145,408,755	145,409,024	6	0.402	269
9	39,461,960	39,462,119	5	-0.381	159
9	39,461,960	39,462,119	5	-0.381	159
9	39,461,960	39,462,119	5	-0.381	159
4	183,804,968	183,805,116	6	0.406	148
4	183,804,968	183,805,116	6	0.406	148
4	183,804,968	183,805,116	6	0.406	148
4	183,804,968	183,805,116	6	0.406	148
14	110,244,728	110,244,894	6	-0.353	166
14	110,244,728	110,244,894	6	-0.353	166
14	110,244,728	110,244,894	6	-0.353	166
14	110,244,728	110,244,894	6	-0.353	166
14	110,244,728	110,244,894	6	-0.353	166
14	110,244,728	110,244,894	6	-0.353	166
20	24,660,550	24,660,578	5	0.404	28
12	41,335,397	41,335,479	5	-0.338	82
20	9,888,644	9,888,745	9	0.402	101
20	9,853,542	9,853,868	5	0.339	326
20	12,975,878	12,975,968	5	-0.397	90
11	37,767,063	37,767,335	6	-0.538	272
11	35,083,469	35,083,497	6	-0.365	28
11	35,083,469	35,083,497	6	-0.365	28
10	108,922,985	108,922,997	7	0.398	12
15	108,845,676	108,845,884	6	-0.384	208
15	108,845,676	108,845,884	6	-0.384	208
6	48,076,732	48,076,956	5	-0.428	224

6	48,076,732	48,076,956	5	-0.428	224
3	47,278,577	47,279,351	11	0.563	774
3	47,282,832	47,283,168	8	0.384	336
3	47,278,577	47,279,351	11	0.563	774
3	47,278,577	47,279,351	11	0.563	774
3	47,282,832	47,283,168	8	0.384	336
3	47,282,832	47,283,168	8	0.384	336
6	54,652,027	54,652,303	5	0.371	276
6	54,652,027	54,652,303	5	0.371	276
6	54,652,027	54,652,303	5	0.371	276
6	145,253,364	145,253,470	7	0.369	106
7	115,977,146	115,977,332	5	-0.382	186
5	164,031,894	164,032,077	5	-0.419	183
5	164,031,894	164,032,077	5	-0.419	183
13	44,537,854	44,538,200	13	0.458	346
13	44,537,854	44,538,200	13	0.458	346
8	1,376,839	1,376,974	5	-0.392	135
8	1,376,839	1,376,974	5	-0.392	135
8	1,376,839	1,376,974	5	-0.392	135
3	163,757,495	163,757,505	6	-0.389	10
13	48,365,523	48,365,597	5	-0.348	74
5	66,070,350	66,070,577	7	0.419	227
4	43,688,598	43,688,632	7	-0.597	34
10	20,790,486	20,790,689	8	-0.334	203
15	14,208,354	14,208,382	5	0.338	28
15	14,208,354	14,208,382	5	0.338	28
15	14,208,354	14,208,382	5	0.338	28
15	14,208,354	14,208,382	5	0.338	28
3	10,211,987	10,212,102	6	0.379	115
4	172,880,665	172,880,673	5	-0.367	8
2	69,660,889	69,661,045	5	-0.478	156
4	62,700,306	62,700,528	8	-0.471	222
4	62,700,306	62,700,528	8	-0.471	222
15	106,222,037	106,222,308	5	-0.356	271
15	106,213,826	106,214,427	24	-0.354	601
10	86,278,604	86,279,191	10	0.363	587
10	86,278,604	86,279,191	10	0.363	587
10	86,278,604	86,279,191	10	0.363	587

10	86,278,604	86,279,191	10	0.363	587
17	13,997,672	13,997,927	6	-0.337	255
17	13,997,672	13,997,927	6	-0.337	255
19	31,610,546	31,610,560	8	0.647	14
4	8,965,633	8,965,732	6	-0.361	99
4	8,969,628	8,969,854	8	-0.407	226
3	161,410,907	161,411,026	6	-0.454	119
3	161,410,907	161,411,026	6	-0.454	119
3	161,410,907	161,411,026	6	-0.454	119
3	161,410,907	161,411,026	6	-0.454	119
3	161,410,907	161,411,026	6	-0.454	119
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
16	49,784,260	49,784,878	7	0.334	618
18	14,611,512	14,611,815	7	0.483	303
1	155,724,084	155,724,416	5	-0.546	332
1	155,724,084	155,724,416	5	-0.546	332
8	58,788,018	58,788,066	6	0.386	48
18	6,553,048	6,553,221	11	-0.362	173
1	189,582,761	189,582,927	5	0.386	166
1	189,582,761	189,582,927	5	0.386	166
1	189,582,761	189,582,927	5	0.386	166
1	189,582,761	189,582,927	5	0.386	166
1	189,582,761	189,582,927	5	0.386	166
1	189,582,761	189,582,927	5	0.386	166
9	71,690,249	71,690,476	5	0.390	227
16	83,873,172	83,873,278	5	0.361	106
16	83,873,172	83,873,278	5	0.361	106
16	83,873,172	83,873,278	5	0.361	106
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403

6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,636,808	12,637,211	19	-0.355	403
6	12,920,885	12,921,125	6	0.355	240
6	12,920,885	12,921,125	6	0.355	240
18	4,289,227	4,289,908	7	-0.388	681
2	30,890,327	30,890,473	8	-0.357	146
2	30,890,327	30,890,473	8	-0.357	146
5	168,288,505	168,288,765	11	0.351	260
5	168,288,505	168,288,765	11	0.351	260
5	168,288,505	168,288,765	11	0.351	260
19	11,073,388	11,073,740	7	0.492	352
5	158,630,482	158,630,694	6	-0.492	212
1	164,724,337	164,724,671	5	0.349	334
9	74,829,711	74,829,771	5	0.357	60
9	74,829,711	74,829,771	5	0.357	60
9	74,829,711	74,829,771	5	0.357	60
1	203,418,403	203,418,864	10	0.411	461
1	203,418,403	203,418,864	10	0.411	461
2	190,763,131	190,763,597	9	-0.438	466
2	121,645,654	121,646,017	5	-0.338	363
13	91,165,343	91,165,355	7	0.391	12
13	91,030,869	91,030,908	5	0.450	39
7	55,798,422	55,798,432	5	-0.479	10
3	89,272,578	89,272,760	5	0.342	182
11	73,359,106	73,359,432	8	0.388	326
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
13	44,920,844	44,921,134	9	0.543	290
1	85,488,421	85,488,435	8	0.492	14
16	71,907,181	71,907,337	5	-0.418	156
16	71,907,181	71,907,337	5	-0.418	156

17	15,895,940	15,896,314	5	-0.361	374
3	40,802,558	40,802,758	9	-0.374	200
3	165,213,290	165,213,657	15	0.340	367
3	165,213,290	165,213,657	15	0.340	367
3	165,213,290	165,213,657	15	0.340	367
3	165,213,290	165,213,657	15	0.340	367
19	53,190,150	53,190,344	5	0.357	194
2	252,646,238	252,646,311	5	0.425	73
12	7,891,573	7,891,813	5	0.335	240
12	40,189,802	40,189,846	7	-0.370	44
2	179,195,596	179,195,606	6	-0.479	10
7	138,832,461	138,832,819	14	-0.399	358
7	138,793,194	138,793,492	6	-0.437	298
8	118,910,246	118,910,475	8	0.396	229
4	3,289,594	3,289,606	6	0.357	12
4	3,289,594	3,289,606	6	0.357	12
15	79,745,694	79,745,755	6	-0.346	61
15	79,745,694	79,745,755	6	-0.346	61
16	71,868,284	71,868,632	6	0.438	348
8	111,018,313	111,018,592	6	0.384	279
8	111,018,313	111,018,592	6	0.384	279
4	76,818,554	76,818,564	6	0.571	10
7	1,054,517	1,055,401	23	-0.380	884
7	1,054,517	1,055,401	23	-0.380	884
7	1,054,517	1,055,401	23	-0.380	884
7	1,054,517	1,055,401	23	-0.380	884
7	1,054,517	1,055,401	23	-0.380	884
8	115,874,367	115,874,492	5	-0.417	125
2	201,429,684	201,430,555	9	-0.532	871
2	201,429,684	201,430,555	9	-0.532	871
2	201,429,684	201,430,555	9	-0.532	871
2	201,429,684	201,430,555	9	-0.532	871
2	201,400,467	201,400,650	9	-0.455	183
4	78,807,715	78,807,834	5	-0.416	119
11	37,730,127	37,730,419	12	0.365	292
11	37,730,127	37,730,419	12	0.365	292
11	37,730,127	37,730,419	12	0.365	292
11	37,730,127	37,730,419	12	0.365	292

11	37,730,127	37,730,419	12	0.365	292
11	37,730,127	37,730,419	12	0.365	292
9	101,473,088	101,473,224	10	-0.375	136
5	80,598,188	80,598,517	9	-0.441	329
1	85,505,331	85,505,468	7	-0.404	137
1	85,505,331	85,505,468	7	-0.404	137
1	85,505,331	85,505,468	7	-0.404	137
7	115,977,146	115,977,332	5	-0.382	186
2	230,696,687	230,696,960	6	-0.505	273
10	67,050,485	67,050,593	5	-0.367	108
5	152,236,112	152,236,164	7	0.349	52
2	189,040,161	189,040,749	6	-0.465	588
2	188,866,852	188,869,380	36	-0.491	2528
2	188,866,852	188,869,380	36	-0.491	2528
2	189,040,161	189,040,749	6	-0.465	588
1	90,861,887	90,861,945	5	0.366	58
1	90,861,887	90,861,945	5	0.366	58
1	90,861,887	90,861,945	5	0.366	58
10	45,481,755	45,481,820	7	-0.344	65
10	45,481,755	45,481,820	7	-0.344	65
9	46,496,245	46,496,409	5	0.341	164
19	29,179,428	29,179,455	5	0.457	27
13	48,283,546	48,283,871	5	0.436	325
16	10,595,689	10,595,942	5	-0.351	253
17	12,814,806	12,814,977	6	-0.464	171
3	3,893,373	3,893,718	6	0.342	345
3	553,952	556,044	63	-0.344	2092
13	81,795,263	81,795,401	6	0.395	138
1	165,837,009	165,837,361	6	0.381	352
2	614,483	614,731	9	-0.441	248
20	10,204,465	10,204,620	5	-0.339	155
2	188,866,852	188,869,380	36	-0.491	2528
2	189,040,161	189,040,749	6	-0.465	588
1	72,948,735	72,949,173	7	0.343	438
1	72,948,735	72,949,173	7	0.343	438
1	72,948,735	72,949,173	7	0.343	438
2	193,309,066	193,309,250	5	-0.347	184
4	8,965,633	8,965,732	6	-0.361	99

4	8,969,628	8,969,854	8	-0.407	226
17	93,272,134	93,272,345	6	-0.374	211
20	12,372,050	12,372,148	6	0.406	98
5	152,236,112	152,236,164	7	0.349	52
10	4,704,710	4,704,820	5	0.566	110
10	4,705,873	4,706,124	8	-0.334	251
10	14,027,920	14,027,956	5	0.343	36
10	17,050,298	17,050,354	7	-0.351	56
10	20,280,366	20,280,799	8	0.386	433
10	20,333,900	20,334,020	6	0.342	120
10	30,854,436	30,854,729	13	-0.360	293
10	38,975,953	38,976,212	6	0.346	259
10	42,357,048	42,357,324	9	-0.458	276
10	51,266,791	51,267,186	6	0.335	395
10	68,508,504	68,508,797	7	-0.467	293
10	83,537,143	83,537,224	5	0.436	81
10	84,218,689	84,218,866	7	0.354	177
10	84,572,319	84,572,751	5	0.386	432
10	87,679,827	87,680,304	17	-0.372	477
10	94,464,381	94,464,625	5	-0.468	244
10	94,753,924	94,753,938	7	-0.420	14
10	95,765,954	95,766,398	5	-0.365	444
10	96,235,812	96,236,137	8	0.387	325
10	98,882,551	98,882,800	7	-0.399	249
10	102,057,750	102,057,762	7	0.478	12
10	108,761,866	108,762,127	5	0.371	261
10	110,222,277	110,222,291	6	0.560	14
11	15,078,733	15,079,269	7	-0.334	536
11	21,627,006	21,627,853	10	-0.514	847
11	27,200,975	27,201,645	7	0.377	670
11	32,044,007	32,044,382	12	0.527	375
11	32,218,100	32,218,475	5	-0.348	375
11	33,438,408	33,438,607	8	-0.444	199
11	36,147,845	36,148,095	10	0.346	250
11	36,188,020	36,188,036	5	-0.810	16
11	44,701,381	44,703,178	26	-0.611	1797
11	53,916,032	53,917,466	31	-0.795	1434
11	54,138,608	54,139,106	15	-0.382	498

11	57,960,499	57,960,836	18	-0.374	337
11	59,730,874	59,730,958	6	0.388	84
11	64,075,522	64,075,822	11	-0.394	300
11	79,168,357	79,168,733	10	0.406	376
11	80,477,979	80,478,349	15	-0.488	370
11	82,711,654	82,711,749	5	-0.364	95
11	84,484,438	84,484,457	5	0.373	19
12	6,939,295	6,939,420	12	-0.416	125
12	12,027,972	12,028,149	7	0.375	177
12	12,589,463	12,589,515	6	0.338	52
12	12,616,297	12,616,305	5	-0.624	8
12	12,799,771	12,799,789	7	-0.377	18
12	13,324,819	13,324,829	5	-0.399	10
12	20,869,570	20,869,988	5	-0.483	418
12	21,160,431	21,160,925	5	0.385	494
12	27,906,180	27,906,267	5	0.532	87
12	30,100,709	30,101,131	17	-0.541	422
12	32,485,715	32,486,328	26	-0.371	613
12	34,838,681	34,838,925	10	0.372	244
12	39,020,761	39,021,009	7	-0.334	248
12	39,387,774	39,387,826	8	-0.415	52
12	40,487,144	40,487,154	5	-0.449	10
12	40,916,781	40,917,138	8	0.372	357
12	41,319,554	41,319,856	10	-0.469	302
12	41,615,388	41,615,640	7	-0.429	252
12	44,425,489	44,425,652	6	0.335	163
12	44,451,273	44,451,455	8	0.439	182
12	44,483,412	44,483,822	10	-0.432	410
12	44,868,397	44,868,430	7	-0.340	33
13	19,229,685	19,231,221	28	-0.379	1536
13	31,484,465	31,484,580	6	-0.345	115
13	33,369,484	33,369,742	5	0.453	258
13	41,259,346	41,259,386	8	0.379	40
13	45,143,860	45,143,954	5	0.391	94
13	47,059,752	47,060,075	11	-0.378	323
13	48,702,882	48,703,649	11	-0.352	767
13	55,368,926	55,369,197	5	0.395	271
13	69,744,528	69,744,812	13	0.546	284

13	70,083,675	70,084,459	11	0.547	784
13	76,909,765	76,909,785	6	0.398	20
13	80,055,156	80,055,258	5	0.367	102
13	88,389,109	88,389,927	9	-0.404	818
13	95,067,019	95,067,118	5	-0.378	99
13	104,927,224	104,927,434	5	0.346	210
13	105,199,049	105,199,643	6	-0.384	594
14	5,264,048	5,264,774	16	-0.397	726
14	8,848,826	8,849,166	5	0.361	340
14	8,872,116	8,872,822	10	0.425	706
14	13,562,332	13,562,646	5	-0.362	314
14	14,102,188	14,102,200	7	0.818	12
14	14,711,019	14,711,031	5	-0.678	12
14	16,717,433	16,717,856	6	0.340	423
14	16,816,996	16,817,170	7	0.389	174
14	17,107,153	17,107,275	7	-0.367	122
14	17,107,283	17,107,407	9	-0.406	124
14	17,701,035	17,701,421	18	-0.603	386
14	17,931,577	17,931,585	5	0.355	8
14	20,865,764	20,865,952	8	0.394	188
14	21,367,134	21,367,540	14	-0.548	406
14	24,261,664	24,262,226	9	-0.580	562
14	26,833,884	26,834,167	5	-0.911	283
14	61,805,958	61,806,157	8	-0.394	199
14	62,352,722	62,353,082	10	-0.370	360
14	63,661,940	63,662,185	5	0.470	245
14	86,083,003	86,083,377	13	-0.344	374
14	86,128,204	86,128,572	12	-0.425	368
14	86,435,883	86,435,897	7	0.591	14
14	88,296,583	88,296,906	6	-0.376	323
14	88,456,467	88,457,301	9	-0.368	834
14	89,443,242	89,443,380	6	-0.450	138
14	101,655,758	101,656,269	6	-0.468	511
14	108,176,127	108,176,225	7	-0.339	98
15	5,869,135	5,869,804	7	0.339	669
15	8,850,693	8,850,787	5	0.391	94
15	15,142,740	15,142,755	6	0.394	15
15	18,456,178	18,456,535	6	-0.494	357

15	21,572,516	21,572,943	6	0.353	427
15	22,824,298	22,824,989	20	-0.380	691
15	23,313,384	23,313,502	6	-0.340	118
15	24,595,187	24,595,329	9	0.356	142
15	27,300,849	27,301,185	29	-0.427	336
15	42,365,123	42,365,285	10	0.408	162
15	44,744,991	44,745,001	6	0.340	10
15	55,987,460	55,987,529	5	-0.358	69
15	56,743,948	56,744,265	12	-0.357	317
15	57,758,396	57,758,780	13	0.365	384
15	58,094,873	58,094,883	5	-0.525	10
15	72,760,851	72,760,872	6	-0.465	21
15	77,335,380	77,335,962	8	0.371	582
15	81,111,332	81,111,610	5	-0.380	278
15	84,304,359	84,304,586	7	-0.411	227
15	88,029,688	88,029,738	5	0.463	50
15	93,841,409	93,841,786	15	-0.553	377
16	7,149,404	7,149,414	6	0.398	10
16	7,598,049	7,598,360	9	-0.339	311
16	7,598,461	7,598,995	18	-0.412	534
16	8,151,034	8,151,253	5	0.340	219
16	9,530,413	9,530,648	6	-0.360	235
16	11,630,080	11,630,161	5	-0.457	81
16	18,685,521	18,685,789	5	-0.399	268
16	48,001,588	48,001,848	6	0.365	260
16	60,244,096	60,244,459	12	0.446	363
16	61,736,320	61,737,309	13	0.391	989
16	63,650,013	63,650,447	9	-0.397	434
16	76,304,525	76,304,591	7	0.376	66
16	79,453,377	79,454,242	16	0.373	865
16	80,610,801	80,611,175	6	-0.357	374
17	1,242,459	1,242,752	8	-0.345	293
17	1,557,714	1,557,730	9	0.541	16
17	12,122,893	12,123,384	9	-0.353	491
17	13,124,225	13,124,237	7	-0.596	12
17	13,947,230	13,947,377	8	-0.371	147
17	14,266,533	14,266,705	10	0.456	172
17	19,823,963	19,824,163	8	-0.375	200

17	26,821,021	26,821,080	5	0.358	59
17	58,993,622	58,993,876	7	-0.785	254
17	72,627,642	72,627,825	5	0.337	183
17	75,206,219	75,206,306	6	0.376	87
17	79,063,217	79,063,229	7	0.505	12
17	81,236,769	81,236,777	5	0.549	8
17	81,418,722	81,418,895	5	0.391	173
17	83,795,869	83,796,031	7	0.385	162
17	83,934,322	83,934,693	12	-0.343	371
17	85,778,403	85,778,473	11	-0.561	70
17	94,501,309	94,502,043	9	0.375	734
17	96,381,883	96,381,973	5	-0.440	90
18	3,782,949	3,783,278	5	-0.370	329
18	4,917,207	4,917,554	28	-0.456	347
18	7,849,957	7,850,135	9	-0.579	178
18	12,232,712	12,233,066	9	-0.350	354
18	14,833,566	14,834,032	5	0.423	466
18	61,491,059	61,491,396	7	-0.365	337
18	66,411,741	66,412,317	19	-0.441	576
18	67,276,918	67,277,191	8	-0.510	273
18	71,065,359	71,065,604	7	-0.494	245
18	79,319,839	79,320,044	5	-0.377	205
18	79,328,188	79,328,210	10	0.415	22
18	79,537,672	79,538,013	15	-0.405	341
18	80,057,747	80,058,442	12	-0.436	695
18	80,287,471	80,287,763	6	0.363	292
19	9,534,677	9,535,007	11	-0.361	330
19	9,601,004	9,601,594	11	0.412	590
19	9,601,995	9,602,372	8	0.470	377
19	9,658,005	9,658,053	5	-0.359	48
19	10,947,815	10,948,338	7	-0.383	523
19	14,393,360	14,393,522	6	-0.392	162
19	16,123,980	16,124,086	6	0.395	106
19	28,552,417	28,552,691	5	0.388	274
19	31,186,730	31,186,883	5	0.392	153
19	31,259,974	31,260,020	5	0.409	46
19	51,166,797	51,166,881	7	-0.368	84
19	53,062,836	53,062,972	5	-0.494	136

19	54,469,315	54,470,018	18	0.365	703
19	55,536,781	55,537,070	10	0.415	289
19	56,794,214	56,794,321	7	-0.340	107
1	3,545,143	3,545,197	5	0.368	54
1	16,183,742	16,183,875	6	0.356	133
1	23,871,506	23,871,728	13	-0.344	222
1	29,503,064	29,503,322	5	0.349	258
1	29,687,833	29,688,292	18	-0.414	459
1	32,562,798	32,562,965	5	-0.876	167
1	33,608,227	33,608,305	5	0.338	78
1	41,995,038	41,995,219	8	0.357	181
1	43,138,772	43,139,161	10	-0.372	389
1	44,423,113	44,423,149	9	-0.404	36
1	47,450,193	47,450,467	6	0.378	274
1	48,693,899	48,694,020	5	0.418	121
1	57,633,053	57,633,130	6	-0.622	77
1	68,921,090	68,921,620	6	-0.817	530
1	73,359,669	73,359,894	6	0.342	225
1	86,771,899	86,772,247	8	0.432	348
1	90,559,345	90,559,377	6	-0.517	32
1	90,920,533	90,920,599	5	-0.394	66
1	109,295,714	109,296,091	7	-0.490	377
1	113,685,199	113,685,474	5	0.334	275
1	122,387,400	122,387,744	5	0.475	344
1	123,029,087	123,029,330	6	0.356	243
1	135,917,173	135,917,281	6	-0.337	108
1	135,960,566	135,961,604	13	-0.421	1038
1	136,748,500	136,749,205	9	0.398	705
1	137,988,208	137,988,275	8	-0.499	67
1	141,967,317	141,967,415	5	-0.867	98
1	145,329,382	145,329,505	6	-0.463	123
1	155,558,438	155,558,741	5	-0.341	303
1	160,556,558	160,556,870	5	0.346	312
1	161,880,578	161,881,039	5	-0.486	461
1	161,905,186	161,905,622	7	-0.431	436
1	166,770,296	166,770,616	10	-0.362	320
1	169,571,608	169,571,628	6	-0.388	20
1	176,824,197	176,824,278	7	-0.354	81

1	182,588,194	182,588,206	7	0.397	12
1	185,305,067	185,305,208	5	-0.349	141
1	185,446,433	185,446,634	5	-0.562	201
1	188,209,055	188,209,172	9	0.361	117
1	190,728,899	190,729,117	12	-0.416	218
1	195,152,377	195,152,459	6	0.376	82
1	198,618,353	198,618,534	6	0.349	181
1	201,137,065	201,137,097	10	0.353	32
1	212,829,112	212,829,340	7	0.530	228
1	217,848,881	217,849,198	9	0.352	317
1	218,616,243	218,616,253	5	0.454	10
1	219,305,420	219,305,524	5	0.349	104
1	224,808,808	224,808,837	10	-0.366	29
1	230,436,180	230,436,641	5	-0.365	461
1	231,693,413	231,693,429	7	0.362	16
1	231,866,213	231,866,746	9	0.342	533
1	232,327,859	232,327,885	11	0.395	26
1	232,365,692	232,365,882	6	-0.571	190
1	233,044,343	233,044,706	8	-0.362	363
1	237,307,573	237,307,779	5	0.348	206
1	246,185,028	246,185,044	5	0.652	16
1	249,379,076	249,379,164	5	0.364	88
1	251,747,451	251,747,840	10	0.384	389
1	257,458,894	257,459,061	7	-0.374	167
20	10,305,066	10,305,230	8	0.464	164
20	11,113,699	11,114,046	9	-0.398	347
20	11,796,746	11,796,829	7	-0.430	83
20	12,008,483	12,008,499	9	-0.383	16
20	13,170,234	13,170,435	11	0.340	201
20	13,177,762	13,177,843	5	-0.461	81
20	15,016,421	15,016,433	6	-0.369	12
20	22,575,092	22,575,100	5	0.413	8
20	42,541,167	42,541,305	11	-0.539	138
20	42,610,377	42,610,827	5	-0.557	450
20	42,611,428	42,612,124	7	-0.388	696
20	42,729,223	42,729,264	7	0.360	41
20	47,205,245	47,205,641	10	-0.455	396
20	48,506,882	48,507,062	10	0.340	180

2	56,550	56,734	6	-0.976	184
2	1,398,583	1,398,907	7	0.426	324
2	1,417,736	1,418,062	9	0.394	326
2	1,422,574	1,423,010	7	0.347	436
2	9,976,063	9,976,336	10	0.457	273
2	27,201,383	27,201,609	5	0.397	226
2	30,855,651	30,855,663	6	-0.353	12
2	35,456,503	35,456,973	22	0.339	470
2	37,855,849	37,855,958	5	0.335	109
2	38,061,801	38,062,086	10	0.692	285
2	38,115,342	38,115,356	8	0.484	14
2	39,235,842	39,235,854	5	-0.450	12
2	41,108,579	41,108,683	6	-0.446	104
2	41,673,646	41,673,704	5	0.346	58
2	43,215,242	43,215,437	9	-0.336	195
2	43,544,068	43,544,517	5	-0.464	449
2	43,939,396	43,939,968	8	-0.372	572
2	51,914,492	51,915,168	25	-0.730	676
2	52,092,205	52,092,562	11	-0.361	357
2	52,243,597	52,245,294	19	-0.557	1697
2	61,992,979	61,993,150	5	-0.350	171
2	78,257,140	78,257,317	5	-0.377	177
2	79,234,925	79,234,933	5	-0.423	8
2	95,084,230	95,084,564	8	-0.410	334
2	105,636,120	105,636,252	9	-0.372	132
2	108,272,982	108,273,415	6	-0.335	433
2	115,511,994	115,512,568	9	0.346	574
2	116,343,828	116,343,905	8	-0.363	77
2	116,375,575	116,375,637	8	-0.346	62
2	116,712,918	116,713,053	8	-0.541	135
2	116,713,108	116,713,412	10	-0.461	304
2	123,692,625	123,692,663	5	0.392	38
2	128,066,725	128,067,333	8	-0.565	608
2	139,848,274	139,848,613	6	0.374	339
2	141,230,225	141,230,341	7	0.382	116
2	143,978,899	143,979,077	5	-0.382	178
2	148,133,691	148,133,853	7	0.338	162
2	157,126,015	157,126,111	5	-0.448	96

2	158,660,017	158,660,357	10	-0.431	340
2	175,522,666	175,522,678	7	-0.414	12
2	178,932,423	178,932,501	8	0.334	78
2	180,346,831	180,347,515	8	-0.369	684
2	186,902,654	186,902,960	8	-0.903	306
2	190,871,855	190,872,024	5	-0.433	169
2	191,064,065	191,064,367	8	0.355	302
2	191,221,265	191,221,559	14	-0.367	294
2	194,148,517	194,148,623	5	0.378	106
2	195,756,917	195,757,044	6	0.369	127
2	195,818,334	195,818,485	5	-0.462	151
2	196,575,140	196,575,390	5	0.361	250
2	211,523,568	211,523,774	6	-0.747	206
2	214,093,970	214,094,330	7	-0.361	360
2	221,948,929	221,949,202	7	-0.352	273
2	227,102,981	227,103,088	5	0.406	107
2	227,794,362	227,794,391	5	0.387	29
2	227,988,449	227,988,574	5	-0.347	125
2	230,341,162	230,341,294	6	-0.355	132
2	231,590,502	231,591,567	17	-0.344	1065
2	233,242,743	233,242,812	6	-0.404	69
2	234,986,842	234,987,115	6	0.361	273
2	236,138,691	236,139,021	6	0.376	330
2	239,217,876	239,218,547	7	-0.466	671
2	251,410,667	251,410,677	5	0.337	10
2	252,537,683	252,538,185	6	0.396	502
2	256,700,368	256,700,862	9	-0.337	494
3	12,487,802	12,487,908	7	-0.354	106
3	12,993,798	12,994,104	28	-0.339	306
3	14,630,385	14,630,860	13	0.382	475
3	23,726,828	23,727,332	10	-0.594	504
3	29,585,856	29,586,479	9	0.399	623
3	32,151,284	32,151,651	5	0.363	367
3	34,306,039	34,306,243	6	-0.422	204
3	46,463,161	46,463,981	9	0.382	820
3	47,194,698	47,195,039	6	0.364	341
3	50,213,939	50,215,260	15	-0.570	1321
3	57,799,122	57,799,141	5	-0.396	19

3	64,084,076	64,084,383	6	-0.702	307
3	64,086,232	64,086,370	6	-0.344	138
3	67,183,130	67,183,201	8	0.337	71
3	67,941,667	67,941,953	6	0.579	286
3	69,154,149	69,154,175	8	-0.667	26
3	72,442,837	72,443,281	5	-0.360	444
3	76,929,695	76,929,810	5	0.582	115
3	77,083,124	77,083,146	6	0.339	22
3	93,674,356	93,674,827	5	-0.391	471
3	93,694,490	93,694,588	5	-0.438	98
3	96,435,433	96,435,505	12	-0.520	72
3	104,118,099	104,118,109	6	0.501	10
3	114,616,843	114,616,980	5	0.392	137
3	117,352,061	117,352,272	17	-0.402	211
3	117,521,016	117,521,200	5	-0.370	184
3	119,574,254	119,574,918	9	-0.515	664
3	120,089,243	120,089,379	7	0.387	136
3	126,276,367	126,276,570	5	0.347	203
3	132,344,167	132,344,434	8	0.362	267
3	134,300,110	134,300,300	9	-0.377	190
3	137,267,374	137,267,689	5	0.384	315
3	140,335,458	140,335,494	12	0.483	36
3	154,337,007	154,337,738	15	0.352	731
3	156,721,483	156,722,103	8	0.341	620
3	160,619,387	160,619,710	10	0.402	323
3	161,729,565	161,729,636	6	0.366	71
3	162,064,561	162,064,761	5	-0.507	200
3	162,091,892	162,091,906	7	-0.374	14
3	163,836,387	163,837,926	25	-0.697	1539
3	165,156,364	165,156,698	6	-0.343	334
3	167,981,130	167,981,317	5	-0.376	187
3	168,174,696	168,174,743	6	-0.364	47
3	169,383,448	169,383,724	5	0.401	276
3	169,510,251	169,510,691	5	0.387	440
4	3,935,417	3,935,628	5	-0.406	211
4	5,458,426	5,458,809	5	0.377	383
4	6,602,168	6,602,453	6	-0.457	285
4	29,239,435	29,239,475	11	0.342	40

4	53,410,271	53,410,669	5	-0.391	398
4	55,767,468	55,767,614	9	0.385	146
4	61,786,033	61,787,332	24	-0.492	1299
4	72,734,940	72,735,530	9	-0.371	590
4	75,488,281	75,488,849	8	-0.432	568
4	79,854,309	79,854,508	6	-0.418	199
4	85,219,080	85,219,435	9	-0.371	355
4	86,942,587	86,942,727	7	-0.407	140
4	90,102,528	90,102,945	5	-0.429	417
4	111,866,079	111,866,103	6	0.353	24
4	116,151,441	116,151,580	12	-0.569	139
4	117,691,037	117,691,315	8	-0.381	278
4	117,886,680	117,887,020	6	0.342	340
4	121,517,259	121,517,269	5	-0.352	10
4	126,400,182	126,400,194	6	0.337	12
4	128,706,610	128,706,631	7	-0.450	21
4	130,650,847	130,651,235	5	-0.418	388
4	134,971,817	134,972,029	7	0.457	212
4	140,992,173	140,992,289	5	-0.529	116
4	160,549,806	160,550,357	12	0.354	551
4	172,691,852	172,691,862	5	-0.428	10
4	182,402,686	182,402,696	5	0.501	10
4	182,757,073	182,757,548	7	0.352	475
4	184,007,716	184,007,732	5	0.371	16
5	5,440,468	5,440,584	5	0.344	116
5	26,924,860	26,924,911	5	-0.434	51
5	36,022,764	36,023,361	7	-0.597	597
5	36,077,115	36,077,268	5	-0.507	153
5	36,247,948	36,248,255	6	-0.620	307
5	36,278,391	36,278,435	7	-0.345	44
5	39,451,332	39,451,493	7	-0.574	161
5	57,654,069	57,654,187	8	-0.388	118
5	58,275,643	58,275,834	6	-0.560	191
5	67,318,448	67,318,726	9	-0.462	278
5	73,779,818	73,779,828	6	0.436	10
5	79,777,986	79,778,245	8	0.510	259
5	79,798,372	79,798,529	5	-0.392	157
5	83,361,352	83,361,594	10	-0.864	242

5	88,728,693	88,729,130	6	-0.410	437
5	96,950,610	96,950,819	5	0.342	209
5	100,677,585	100,677,783	5	0.373	198
5	102,656,488	102,656,549	5	-1.000	61
5	102,707,853	102,707,977	5	-0.350	124
5	102,733,734	102,733,878	9	-0.586	144
5	105,613,567	105,613,772	8	-0.402	205
5	105,746,565	105,746,988	6	0.396	423
5	106,633,031	106,633,125	6	-0.339	94
5	108,019,292	108,019,646	5	-0.804	354
5	113,641,785	113,641,902	5	-0.399	117
5	115,246,541	115,246,741	6	-0.452	200
5	117,567,960	117,568,285	6	-0.393	325
5	118,070,742	118,070,938	5	-0.568	196
5	120,153,733	120,154,068	12	0.393	335
5	123,013,340	123,013,578	5	0.430	238
5	126,550,471	126,550,718	5	0.372	247
5	127,020,379	127,020,502	5	-0.336	123
5	128,594,695	128,594,705	6	0.485	10
5	128,896,139	128,897,021	12	0.437	882
5	138,971,438	138,971,699	9	-0.452	261
5	140,934,001	140,934,207	6	0.440	206
5	141,797,853	141,798,055	5	-0.488	202
5	155,893,583	155,893,861	5	0.356	278
5	156,245,625	156,245,854	7	0.349	229
5	160,566,625	160,566,924	5	-0.386	299
5	165,497,390	165,497,668	11	-0.385	278
5	166,878,934	166,879,727	15	0.376	793
5	168,064,748	168,064,764	5	0.462	16
5	168,616,463	168,616,813	5	-0.344	350
5	169,075,201	169,075,215	7	0.433	14
5	169,973,593	169,973,692	7	0.375	99
5	170,073,577	170,073,601	7	0.444	24
5	171,346,780	171,346,839	5	-0.349	59
5	171,741,306	171,741,755	15	0.461	449
6	3,958,378	3,958,474	6	0.356	96
6	3,958,488	3,958,768	7	0.346	280
6	11,116,063	11,116,423	7	0.375	360

6	19,707,101	19,707,109	5	0.415	8
6	23,137,375	23,137,614	5	0.442	239
6	27,023,172	27,023,461	7	-0.454	289
6	36,456,612	36,457,147	7	0.343	535
6	70,760,115	70,760,215	5	-0.356	100
6	77,907,512	77,907,578	5	0.360	66
6	90,839,015	90,839,150	5	0.426	135
6	90,911,155	90,911,486	9	-0.340	331
6	95,232,527	95,232,839	19	-0.366	312
6	98,964,414	98,964,779	6	-0.420	365
6	104,674,252	104,674,432	7	-0.412	180
6	104,798,507	104,798,577	5	-0.373	70
6	115,224,254	115,224,995	16	0.442	741
6	116,773,361	116,773,536	5	-0.531	175
6	117,003,602	117,003,834	6	0.363	232
6	129,210,761	129,210,777	9	0.473	16
6	129,219,304	129,219,632	7	0.385	328
6	129,423,482	129,423,623	6	0.360	141
6	129,614,102	129,614,114	6	-0.476	12
6	130,375,980	130,376,000	9	-0.339	20
6	130,949,892	130,949,900	5	-0.544	8
6	135,431,998	135,432,006	5	-0.518	8
6	135,902,803	135,903,168	7	-0.434	365
6	144,584,469	144,584,963	5	-0.387	494
6	144,710,452	144,710,842	15	-0.538	390
7	864,109	864,189	5	-0.385	80
7	4,615,246	4,626,524	144	-0.404	11278
7	4,626,647	4,632,113	59	-0.403	5466
7	4,867,932	4,868,647	15	-0.388	715
7	9,520,101	9,520,210	6	-0.336	109
7	13,204,449	13,204,588	5	0.476	139
7	21,161,066	21,161,078	6	-0.394	12
7	30,480,469	30,480,796	5	0.397	327
7	32,585,526	32,586,089	17	-0.353	563
7	32,634,381	32,634,595	5	0.349	214
7	32,983,071	32,983,400	7	-0.351	329
7	33,651,342	33,651,557	5	0.544	215
7	35,711,969	35,712,290	11	-0.893	321

7	36,263,457	36,263,674	13	-0.408	217
7	36,914,777	36,914,842	5	0.367	65
7	37,262,681	37,262,736	5	-0.369	55
7	50,099,901	50,100,060	11	0.374	159
7	50,390,326	50,391,256	10	0.497	930
7	50,599,893	50,600,183	5	-0.359	290
7	66,255,539	66,255,551	6	0.335	12
7	66,442,386	66,443,050	10	0.419	664
7	74,383,994	74,384,372	7	0.461	378
7	75,696,412	75,696,446	5	0.438	34
7	87,976,093	87,976,109	7	-0.691	16
7	110,904,010	110,904,024	8	-0.456	14
7	116,068,038	116,068,348	6	0.366	310
7	119,492,534	119,492,548	8	0.505	14
7	130,636,608	130,636,875	5	0.440	267
7	132,254,684	132,254,885	7	-0.351	201
7	133,087,047	133,087,274	5	0.415	227
7	133,293,707	133,294,009	8	-0.498	302
7	133,328,784	133,329,853	15	-0.403	1069
7	134,669,819	134,670,271	12	0.496	452
7	134,804,618	134,805,218	12	-0.396	600
7	135,168,139	135,168,421	10	0.385	282
7	135,169,059	135,169,279	8	-0.412	220
7	135,223,267	135,224,824	18	-0.335	1557
7	136,489,031	136,489,244	5	0.380	213
7	136,622,250	136,623,000	20	0.559	750
7	136,623,062	136,623,428	6	0.351	366
7	137,046,707	137,046,811	8	-0.342	104
7	139,143,178	139,143,186	5	-0.358	8
7	139,322,835	139,323,756	16	0.433	921
7	141,802,638	141,803,341	8	-0.382	703
8	10,681,179	10,681,373	10	0.425	194
8	11,929,643	11,930,143	8	0.395	500
8	18,049,989	18,050,035	8	0.653	46
8	23,491,151	23,491,379	5	0.357	228
8	57,390,468	57,390,607	7	-0.397	139
8	59,006,344	59,006,370	13	0.341	26
8	60,551,619	60,551,943	10	0.364	324

8	66,010,174	66,010,606	9	-0.335	432
8	72,378,554	72,378,782	6	0.347	228
8	84,094,124	84,094,136	7	-0.852	12
8	87,710,920	87,711,201	7	0.463	281
8	95,291,672	95,291,744	5	-0.377	72
8	97,369,493	97,370,050	7	-0.402	557
8	107,728,813	107,728,956	7	-0.356	143
8	110,984,569	110,985,050	6	0.443	481
8	111,007,217	111,007,241	7	-0.440	24
8	115,319,814	115,320,386	25	-0.550	572
8	115,320,552	115,320,639	6	-0.394	87
8	116,821,213	116,821,223	6	-0.512	10
8	117,966,482	117,966,773	5	-0.387	291
8	118,694,160	118,694,426	8	-0.376	266
8	123,108,620	123,108,628	5	0.355	8
8	123,839,405	123,839,890	5	0.337	485
8	125,603,518	125,604,479	27	-0.415	961
8	127,442,152	127,442,221	6	-0.485	69
8	127,913,397	127,913,874	9	-0.386	477
9	3,433,147	3,433,480	6	-0.336	333
9	6,408,584	6,408,592	5	-0.563	8
9	8,717,866	8,718,141	5	-0.451	275
9	8,875,311	8,875,355	6	-0.492	44
9	9,068,595	9,068,727	5	0.334	132
9	9,068,734	9,069,023	10	0.342	289
9	13,520,111	13,520,597	5	-0.389	486
9	19,752,500	19,752,911	11	0.520	411
9	25,700,037	25,700,144	5	-0.364	107
9	29,832,205	29,832,825	8	0.407	620
9	38,792,278	38,792,298	6	0.452	20
9	64,775,087	64,775,099	7	0.348	12
9	65,796,674	65,796,797	5	0.483	123
9	74,930,298	74,930,421	6	0.435	123
9	85,229,996	85,230,391	15	-0.440	395
9	87,182,604	87,184,000	19	-0.347	1396
9	102,523,054	102,523,254	5	0.343	200
9	107,966,795	107,967,231	7	-0.337	436
9	108,248,635	108,248,647	6	0.404	12

X	2,783,483	2,783,759	6	-0.394	276
X	5,747,985	5,748,050	5	-0.401	65
X	12,801,245	12,801,257	5	0.743	12
X	23,068,502	23,068,709	9	-0.344	207
X	26,492,702	26,492,853	5	0.344	151
X	42,894,473	42,894,597	5	0.378	124
X	57,083,752	57,084,010	5	-0.459	258
X	90,977,361	90,977,561	7	0.359	200
X	117,037,932	117,038,068	5	0.406	136
X	143,652,989	143,653,051	6	0.363	62
X	153,574,856	153,575,048	7	0.401	192

5% between WKY and LEW rat strains that overlap with genes (n=420 genes). The overlapping

<i>Average CpG density (SD)</i>	<i>Feature</i>	<i>Chr.</i>	<i>Start (bp)</i>	<i>End (bp)</i>	Overlap
0.021 (0.152)	downstream	10	68,789,450	68,790,450	
0.563 (0.089)	downstream	9	65,577,305	65,578,305	
0.036 (0.098)	downstream	20	7,471,071	7,472,071	
0.024 (0.114)	exon	11	85,848,019	85,848,083	
0.029 (0.096)	exon	1	201,199,467	201,199,807	
0.125 (0.074)	exon	1	135,484,781	135,485,301	
0.031 (0.112)	exon	14	84,172,756	84,173,275	
0.031 (0.112)	exon	14	84,173,369	84,173,441	
0.031 (0.112)	exon	14	84,173,369	84,173,441	
0.031 (0.112)	exon	14	84,172,756	84,173,275	
0.026 (0.2)	exon	2	244,382,399	244,382,521	
0.042 (0.128)	exon	9	8,052,189	8,052,522	
0.041 (0.104)	exon	1	159,315,191	159,315,581	
0.027 (0.089)	exon	10	91,104,033	91,104,084	
0.011 (0.179)	exon	1	213,077,889	213,079,869	
0.027 (0.087)	exon	5	76,087,276	76,087,478	
0.027 (0.087)	exon	5	76,088,075	76,088,189	
0.036 (0.09)	exon	1	249,471,145	249,471,156	
0.083 (0.098)	exon	1	47,244,366	47,244,660	
0.025 (0.087)	intron	10	68,548,047	68,553,118	
0.021 (0.152)	intron	10	68,722,987	68,791,526	
0.021 (0.145)	intron	2	244,235,672	244,289,742	
0.042 (0.118)	intron	2	244,235,672	244,289,742	
0.02 (0.124)	intron	1	246,215,664	246,218,699	
0.02 (0.124)	intron	1	246,215,664	246,218,699	
0.015 (0.079)	intron	7	117,329,002	117,338,049	
0.024 (0.114)	intron	11	85,847,323	85,848,019	
0.018 (0.171)	intron	6	7,949,298	7,951,836	
0.044 (0.162)	intron	7	135,287,491	135,297,578	
0.044 (0.162)	intron	7	135,287,491	135,297,578	
0.031 (0.112)	intron	14	84,173,275	84,173,369	
0.031 (0.112)	intron	14	84,173,275	84,173,369	
0.625 (0.056)	intron	14	92,364,769	92,376,887	

0.045 (0.111)	intron	18	71,444,017	71,455,837
0.045 (0.111)	intron	18	71,444,017	71,455,837
0.045 (0.111)	intron	18	71,444,017	71,455,837
0.02 (0.063)	intron	5	155,543,388	155,605,323
0.013 (0.105)	intron	5	155,440,926	155,449,302
0.114 (0.057)	intron	5	155,440,926	155,449,302
0.023 (0.08)	intron	4	117,437,900	117,451,617
0.023 (0.08)	intron	4	117,437,900	117,451,617
0.024 (0.136)	intron	4	48,325,959	48,358,013
0.024 (0.136)	intron	4	48,325,959	48,358,013
0.024 (0.136)	intron	4	48,325,959	48,358,013
0.014 (0.112)	intron	8	11,383,950	11,392,901
0.014 (0.112)	intron	8	11,383,950	11,392,901
0.026 (0.2)	intron	2	244,380,689	244,382,399
0.042 (0.128)	intron	9	8,020,548	8,052,189
0.058 (0.08)	intron	1	190,987,715	191,006,715
0.03 (0.114)	intron	13	44,600,786	44,602,200
0.03 (0.114)	intron	13	44,600,786	44,602,200
0.026 (0.141)	intron	5	153,335,732	153,338,124
0.021 (0.149)	intron	5	153,342,063	153,348,585
0.021 (0.149)	intron	5	153,342,063	153,348,585
0.026 (0.141)	intron	5	153,335,706	153,338,040
0.049 (0.18)	intron	8	75,990,972	76,013,957
0.049 (0.18)	intron	8	75,990,972	76,013,957
0.041 (0.143)	intron	1	250,082,269	250,087,870
0.563 (0.089)	intron	9	65,553,730	65,578,381
0.563 (0.089)	intron	9	65,553,730	65,578,381
0.563 (0.089)	intron	9	65,553,730	65,578,381
0.027 (0.089)	intron	10	91,104,084	91,105,285
0.026 (0.141)	intron	2	182,060,632	182,061,216
0.026 (0.141)	intron	2	182,060,632	182,061,216
0.027 (0.15)	intron	6	115,268,772	115,328,727
0.043 (0.146)	intron	5	70,549,289	70,560,923
0.043 (0.146)	intron	5	70,549,289	70,560,923
0.027 (0.087)	intron	5	76,087,478	76,088,075
0.036 (0.09)	intron	1	249,471,156	249,471,388
0.036 (0.09)	intron	1	249,470,656	249,471,145
0.036 (0.09)	intron	1	249,470,667	249,471,388

0.6 (0.061)	intron	3	134,321,160	134,393,674
0.022 (0.118)	intron	3	134,393,767	134,438,882
0.583 (0.051)	intron	4	157,364,830	157,390,255
0.034 (0.113)	intron	5	154,760,616	154,767,213
0.013 (0.078)	intron	15	9,309,684	9,345,242
0.013 (0.078)	intron	15	9,309,684	9,345,242
0.625 (0.049)	intron	11	74,287,138	74,463,588
0.025 (0.054)	intron	1	196,693,498	196,826,546
0.025 (0.054)	intron	1	196,693,498	196,826,546
0.036 (0.189)	intron	16	7,111,440	7,135,606
0.014 (0.114)	intron	20	13,129,801	13,133,120
0.036 (0.098)	intron	20	7,468,464	7,472,048
0.036 (0.098)	intron	20	7,468,464	7,472,048
0.015 (0.069)	intron	13	48,282,035	48,285,837
0.015 (0.069)	intron	13	48,282,035	48,285,837
0.024 (0.114)	upstream	11	85,847,310	85,848,310
0.024 (0.114)	upstream	11	85,848,083	85,849,083
0.024 (0.114)	upstream	11	85,847,307	85,848,307
0.029 (0.096)	upstream	1	201,199,807	201,200,807
0.018 (0.195)	upstream	5	160,518,285	160,519,285
0.035 (0.167)	upstream	1	186,478,580	186,479,580
0.042 (0.118)	upstream	2	244,284,602	244,285,602
0.027 (0.089)	upstream	10	91,103,033	91,104,033
0.238 (0.1)	upstream	5	76,203,391	76,204,391
0.041 (0.104)	3'UTR	1	159,315,191	159,315,300
0.011 (0.179)	3'UTR	1	213,078,112	213,079,869
0.024 (0.114)	5'UTR	11	85,848,019	85,848,083
0.029 (0.096)	5'UTR	1	201,199,716	201,199,807
0.027 (0.089)	5'UTR	10	91,104,033	91,104,041
0.024 (0.135)	3'UTR	10	45,286,929	45,286,982
0.024 (0.135)	3'UTR	10	45,286,929	45,286,982
0.024 (0.135)	exon	10	45,286,929	45,287,160
0.024 (0.135)	downstream	10	45,285,929	45,286,929
0.024 (0.135)	downstream	10	45,285,929	45,286,929
0.024 (0.135)	exon	10	45,286,929	45,287,160
0.024 (0.15)	intron	8	85,307,103	85,311,432
0.024 (0.15)	intron	8	85,307,103	85,311,432
0.022 (0.174)	intron	8	126,279,014	126,282,878

0.022 (0.174)	intron	8	126,279,120	126,283,450
0.022 (0.174)	intron	8	126,279,120	126,283,450
0.022 (0.174)	intron	8	126,279,014	126,282,878
0.147 (0.168)	intron	9	86,782,434	86,787,460
0.022 (0.099)	intron	2	22,618,723	22,828,298
0.137 (0.122)	intron	7	80,591,341	80,630,420
0.019 (0.117)	upstream	19	50,423,220	50,424,220
0.046 (0.107)	intron	3	33,804,788	33,805,745
0.021 (0.086)	intron	8	59,693,483	59,719,851
0.069 (0.013)	intron	X	12,543,816	12,544,015
0.069 (0.013)	exon	X	12,544,015	12,544,142
0.313 (0.062)	intron	7	31,692,197	31,751,845
0.048 (0.084)	intron	13	66,815,875	66,877,144
0.048 (0.084)	intron	13	66,815,875	66,877,144
0.019 (0.185)	intron	3	134,607,698	134,634,443
0.019 (0.185)	intron	3	134,620,247	134,627,108
0.019 (0.185)	intron	3	134,607,698	134,634,443
0.042 (0.149)	intron	1	253,034,913	253,036,034
0.042 (0.149)	intron	1	253,034,913	253,036,034
0.015 (0.097)	intron	8	113,746,748	113,769,247
0.114 (0.066)	intron	16	82,837,706	82,839,028
0.114 (0.066)	intron	16	82,837,706	82,839,028
0.024 (0.077)	intron	1	41,149,867	41,153,367
0.055 (0.089)	exon	7	140,097,985	140,098,111
0.055 (0.089)	intron	7	140,097,522	140,097,985
0.055 (0.089)	exon	7	140,097,985	140,098,111
0.055 (0.089)	intron	7	140,097,522	140,097,985
0.023 (0.099)	intron	11	68,726,257	68,742,527
0.023 (0.099)	intron	11	68,726,257	68,742,527
0.023 (0.099)	intron	11	68,726,257	68,742,527
0.01 (0.066)	intron	4	87,155,045	87,169,017
0.01 (0.066)	intron	4	87,155,045	87,169,017
0.011 (0.176)	intron	2	144,945,936	145,010,043
0.011 (0.176)	intron	2	144,945,936	145,010,043
0.208 (0.086)	intron	4	184,203,011	184,212,697
0.021 (0.235)	intron	1	171,700,961	171,772,539
0.045 (0.25)	intron	1	171,891,689	171,997,453
0.375 (0.154)	intron	14	81,650,298	81,650,828

0.375 (0.154)	intron	14	81,650,298	81,650,828
0.012 (0.103)	downstream	18	78,989,890	78,990,890
0.012 (0.103)	intron	18	78,989,888	79,025,405
0.011 (0.123)	intron	1	8,649,950	8,688,527
0.034 (0.135)	intron	1	8,649,950	8,688,527
0.039 (0.11)	intron	1	8,649,950	8,688,527
0.125 (0.074)	5'UTR	1	135,485,114	135,485,459
0.125 (0.074)	upstream	1	135,484,114	135,485,114
0.125 (0.074)	exon	1	135,485,114	135,486,265
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.583 (0.003)	intron	X	21,045,000	21,079,841
0.022 (0.108)	intron	8	50,765,940	51,047,329
0.5 (0.088)	intron	4	78,564,894	78,573,208
0.5 (0.088)	intron	4	78,564,894	78,573,208
0.5 (0.088)	intron	4	78,564,894	78,573,208
0.011 (0.129)	intron	1	201,690,424	201,693,172
0.011 (0.129)	intron	1	201,684,635	201,701,650
0.011 (0.129)	intron	1	201,684,635	201,693,172
0.025 (0.101)	exon	7	127,373,065	127,374,408
0.025 (0.101)	3'UTR	7	127,373,400	127,374,408
0.025 (0.101)	exon	7	127,373,065	127,374,408
0.025 (0.101)	3'UTR	7	127,373,218	127,374,408
0.025 (0.101)	exon	7	127,373,065	127,373,258
0.025 (0.101)	exon	7	127,373,343	127,373,383
0.025 (0.101)	downstream	7	127,373,383	127,374,383
0.025 (0.101)	intron	7	127,373,258	127,373,343
0.018 (0.082)	intron	1	259,905,837	260,092,911
0.018 (0.082)	intron	1	259,905,837	260,092,911
0.018 (0.082)	intron	1	259,905,837	260,092,911
0.053 (0.039)	intron	1	13,376,038	13,559,232
0.047 (0.108)	intron	1	13,376,038	13,559,232
0.031 (0.096)	intron	6	99,471,678	99,480,585
0.015 (0.134)	intron	12	35,454,179	35,458,050
0.167 (0.104)	intron	19	57,248,885	57,274,659

0.167 (0.104)	intron	19	57,248,885	57,274,659
0.167 (0.104)	intron	19	57,248,885	57,274,659
0.167 (0.104)	intron	19	57,248,885	57,274,659
0.375 (0.022)	intron	5	62,016,637	62,049,827
0.038 (0.112)	intron	1	220,498,867	220,506,364
0.038 (0.112)	intron	1	220,498,867	220,506,364
0.036 (0.161)	intron	14	44,839,309	44,840,121
0.013 (0.115)	intron	7	32,705,736	32,707,148
0.045 (0.095)	intron	16	82,871,355	82,894,022
0.032 (0.163)	intron	11	68,599,290	68,601,164
0.032 (0.163)	intron	11	68,599,290	68,601,164
0.032 (0.163)	intron	11	68,599,290	68,601,164
0.032 (0.163)	intron	11	68,599,290	68,601,164
0.052 (0.138)	upstream	3	10,211,694	10,212,694
0.046 (0.23)	intron	8	77,850,725	77,858,939
0.25 (0.164)	intron	9	86,651,188	86,655,112
0.25 (0.164)	intron	9	86,651,188	86,655,112
0.571 (0.063)	intron	6	23,977,510	23,980,967
0.015 (0.149)	intron	16	47,596,609	47,600,596
0.015 (0.149)	exon	16	47,600,596	47,600,727
0.015 (0.149)	intron	16	47,600,727	47,602,781
0.6 (0.16)	intron	19	49,629,613	49,691,466
0.011 (0.176)	upstream	2	145,005,130	145,006,130
0.034 (0.133)	intron	15	3,415,943	3,458,817
0.026 (0.093)	intron	15	3,415,943	3,458,817
0.032 (0.112)	intron	3	77,624,199	77,717,310
0.028 (0.05)	intron	2	235,371,474	235,380,224
0.015 (0.109)	upstream	20	9,688,660	9,689,660
0.036 (0.139)	intron	1	168,045,108	168,089,032
0.029 (0.116)	intron	12	12,535,900	12,567,849
0.455 (0.051)	upstream	10	109,942,773	109,943,773
0.583 (0.128)	intron	1	226,654,537	226,659,515
0.024 (0.169)	intron	1	135,025,262	135,050,301
0.042 (0.14)	intron	2	1,558,626	1,595,396
0.042 (0.14)	intron	2	1,558,626	1,595,396
0.042 (0.14)	intron	2	1,558,626	1,595,396
0.042 (0.14)	intron	2	1,558,626	1,595,396
0.03 (0.079)	intron	12	6,604,681	6,612,090

0.01 (0.152)	intron	3	24,734,751	24,810,331
0.054 (0.121)	exon	15	53,811,021	53,811,212
0.089 (0.111)	intron	8	114,012,992	114,019,690
0.089 (0.111)	intron	8	114,012,992	114,019,690
0.089 (0.111)	intron	8	114,012,992	114,019,690
0.056 (0.09)	3'UTR	6	109,561,707	109,562,001
0.056 (0.09)	exon	6	109,561,065	109,562,001
0.096 (0.125)	intron	1	248,664,435	248,665,342
0.096 (0.125)	intron	1	248,664,435	248,665,342
0.022 (0.099)	intron	2	22,687,096	22,701,683
0.027 (0.113)	intron	3	2,645,870	2,647,269
0.027 (0.08)	intron	5	57,620,719	57,621,598
0.027 (0.08)	intron	5	57,620,719	57,621,598
0.027 (0.08)	intron	5	57,620,719	57,621,598
0.027 (0.08)	intron	5	57,620,719	57,621,598
0.026 (0.148)	intron	17	64,157,087	64,204,634
0.026 (0.148)	intron	17	64,157,087	64,204,634
0.625 (0.121)	intron	5	128,442,772	128,446,879
0.625 (0.121)	intron	5	128,442,975	128,446,879
0.625 (0.121)	intron	5	128,442,772	128,446,879
0.046 (0.11)	intron	4	174,510,179	174,517,020
0.145 (0.061)	intron	4	174,376,532	174,488,913
0.049 (0.15)	intron	7	138,463,656	138,464,406
0.049 (0.15)	exon	7	138,463,549	138,463,656
0.013 (0.083)	downstream	12	1,553,463	1,554,463
0.013 (0.195)	intron	12	40,583,816	40,651,575
0.021 (0.125)	intron	9	104,714,347	104,726,659
0.068 (0.121)	intron	3	117,090,646	117,151,362
0.016 (0.2)	intron	2	35,603,245	35,707,142
0.056 (0.116)	3'UTR	16	19,179,148	19,179,650
0.056 (0.116)	downstream	16	19,179,650	19,180,650
0.056 (0.116)	exon	16	19,178,940	19,179,650
0.012 (0.167)	intron	12	9,797,694	9,798,800
0.021 (0.112)	intron	20	11,616,869	11,678,343
0.031 (0.137)	intron	5	159,780,898	159,782,540
0.011 (0.122)	intron	6	123,589,623	123,653,535
0.01 (0.152)	intron	2	140,584,549	140,738,868
0.01 (0.152)	intron	2	140,584,549	140,738,868

0.014 (0.188)	intron	X	80,846,526	80,907,538
0.019 (0.096)	intron	14	80,776,852	80,782,391
0.019 (0.096)	intron	14	80,776,852	80,782,391
0.019 (0.096)	intron	14	80,776,852	80,782,391
0.035 (0.142)	intron	12	34,934,904	34,938,069
0.035 (0.142)	intron	12	34,934,904	34,938,069
0.035 (0.142)	intron	12	34,935,321	34,938,069
0.035 (0.142)	intron	12	34,934,904	34,936,793
0.035 (0.142)	downstream	12	34,935,563	34,936,563
0.625 (0.081)	intron	16	81,090,223	81,098,542
0.262 (0.073)	intron	1	78,480,949	78,494,441
0.5 (0.022)	downstream	4	124,660,294	124,661,294
0.011 (0.157)	intron	3	146,653,456	146,664,067
0.011 (0.157)	intron	3	146,653,456	146,664,067
0.053 (0.107)	intron	10	78,979,638	78,991,816
0.022 (0.113)	intron	13	80,177,457	80,213,960
0.076 (0.127)	intron	8	123,556,239	123,571,967
0.089 (0.127)	upstream	8	51,883,785	51,884,785
0.025 (0.111)	intron	10	65,218,672	65,246,003
0.025 (0.111)	intron	10	65,218,672	65,246,003
0.025 (0.111)	intron	10	65,218,672	65,246,003
0.039 (0.091)	intron	5	77,924,410	77,977,885
0.013 (0.139)	intron	5	77,924,410	77,977,885
0.039 (0.091)	intron	5	77,924,410	77,977,885
0.013 (0.139)	intron	5	77,924,410	77,977,885
0.167 (0.063)	intron	18	72,565,723	72,584,152
0.069 (0.013)	intron	X	12,515,257	12,551,212
0.069 (0.013)	intron	X	12,515,257	12,551,212
0.01 (0.119)	intron	10	65,609,143	65,613,695
0.01 (0.119)	intron	10	65,609,143	65,613,695
0.01 (0.119)	intron	10	65,609,143	65,613,695
0.01 (0.119)	intron	10	65,609,143	65,613,695
0.6 (0.095)	intron	1	189,755,119	189,788,495
0.6 (0.095)	intron	1	189,755,119	189,788,495
0.6 (0.095)	intron	1	189,755,119	189,788,495
0.6 (0.095)	intron	1	189,755,119	189,788,495
0.069 (0.113)	exon	10	90,070,934	90,071,771
0.069 (0.113)	3'UTR	10	90,071,028	90,071,771

0.069 (0.113)	exon	10	90,070,934	90,071,771
0.069 (0.113)	3'UTR	10	90,071,028	90,071,771
0.135 (0.083)	intron	5	152,231,528	152,238,917
0.135 (0.083)	intron	5	152,231,528	152,238,917
0.135 (0.083)	intron	5	152,228,709	152,238,917
0.044 (0.143)	exon	8	59,853,528	59,856,758
0.5 (0.092)	intron	10	98,798,200	98,800,419
0.097 (0.176)	intron	15	59,737,832	59,738,588
0.097 (0.176)	intron	15	59,737,832	59,738,588
0.045 (0.152)	intron	2	38,086,862	38,092,580
0.045 (0.152)	intron	2	38,087,907	38,092,580
0.044 (0.158)	intron	2	181,717,115	181,758,689
0.028 (0.164)	intron	13	86,647,396	86,652,737
0.018 (0.074)	intron	9	11,792,562	11,867,438
0.018 (0.074)	intron	9	11,792,566	11,869,774
0.034 (0.155)	upstream	3	18,997,796	18,998,796
0.048 (0.069)	intron	18	72,095,827	72,126,368
0.048 (0.069)	intron	18	72,106,414	72,126,368
0.014 (0.074)	intron	17	10,912,765	10,928,325
0.022 (0.072)	intron	9	73,660,984	73,691,525
0.022 (0.072)	intron	9	73,613,804	73,691,525
0.022 (0.072)	intron	9	73,612,584	73,691,525
0.059 (0.108)	exon	1	85,260,167	85,260,559
0.059 (0.108)	intron	1	85,258,954	85,260,167
0.026 (0.081)	intron	5	130,481,767	130,511,046
0.026 (0.081)	intron	5	130,481,767	130,511,046
0.026 (0.081)	intron	5	130,481,767	130,511,046
0.583 (0.037)	intron	4	131,857,923	131,862,992
0.011 (0.14)	intron	5	157,130,908	157,143,798
0.041 (0.11)	intron	14	5,368,591	5,393,619
0.121 (0.071)	intron	3	106,191,114	106,208,447
0.121 (0.071)	intron	3	106,191,114	106,208,447
0.121 (0.071)	intron	3	106,191,114	106,208,447
0.02 (0.164)	intron	9	38,627,575	38,629,960
0.128 (0.116)	exon	13	91,565,218	91,567,831
0.128 (0.116)	5'UTR	13	91,565,218	91,565,286
0.233 (0.061)	exon	1	78,860,378	78,860,966
0.011 (0.108)	intron	9	63,527,488	63,536,577

0.011 (0.108)	intron	9	63,527,488	63,536,577
0.027 (0.124)	intron	2	178,058,123	178,062,868
0.108 (0.081)	intron	12	43,692,138	43,695,504
0.108 (0.081)	intron	12	43,690,982	43,695,504
0.039 (0.129)	intron	7	137,947,832	137,960,093
0.039 (0.129)	intron	7	137,947,832	137,960,093
0.029 (0.12)	intron	2	34,051,765	34,080,899
0.022 (0.091)	intron	1	135,132,675	135,133,279
0.143 (0.159)	intron	1	233,038,799	233,041,491
0.03 (0.153)	intron	3	106,583,014	106,583,115
0.03 (0.153)	intron	3	106,583,014	106,583,115
0.03 (0.153)	exon	3	106,583,115	106,583,254
0.03 (0.153)	exon	3	106,583,115	106,583,254
0.05 (0.067)	intron	15	12,687,016	12,717,468
0.011 (0.153)	intron	14	6,268,444	6,269,533
0.011 (0.153)	intron	14	6,268,444	6,269,533
0.013 (0.189)	downstream	9	6,207,477	6,208,477
0.067 (0.075)	exon	2	180,479,631	180,479,834
0.067 (0.075)	intron	2	180,479,834	180,479,909
0.067 (0.075)	exon	2	180,479,909	180,480,036
0.02 (0.134)	intron	10	109,149,622	109,175,964
0.026 (0.097)	intron	18	66,139,400	66,193,405
0.026 (0.097)	intron	18	66,139,400	66,193,405
0.027 (0.107)	intron	17	20,916,166	20,918,403
0.027 (0.107)	exon	17	20,918,403	20,918,490
0.036 (0.158)	intron	4	171,010,238	171,098,607
0.036 (0.158)	intron	4	171,010,238	171,098,607
0.035 (0.173)	intron	3	146,234,573	146,238,306
0.019 (0.136)	exon	3	156,326,776	156,326,867
0.019 (0.136)	intron	3	156,326,867	156,328,358
0.019 (0.136)	5'UTR	3	156,326,776	156,326,867
0.019 (0.136)	exon	3	156,326,776	156,326,867
0.019 (0.136)	intron	3	156,326,867	156,328,358
0.019 (0.136)	5'UTR	3	156,326,776	156,326,867
0.01 (0.074)	intron	2	61,695,707	61,697,098
0.01 (0.074)	exon	2	61,695,576	61,695,707
0.048 (0.17)	intron	7	131,747,848	131,760,879
0.048 (0.17)	intron	7	131,747,848	131,760,879

0.048 (0.17)	intron	7	131,752,351	131,760,879
0.031 (0.179)	intron	14	13,939,309	13,954,624
0.031 (0.179)	intron	14	13,939,064	13,954,628
0.121 (0.071)	intron	3	106,188,289	106,278,507
0.028 (0.099)	intron	8	119,616,788	119,647,912
0.028 (0.099)	intron	8	119,616,788	119,647,912
0.018 (0.075)	intron	12	27,413,248	27,421,591
0.022 (0.107)	exon	8	115,451,785	115,453,260
0.013 (0.13)	intron	20	28,107,188	28,107,594
0.013 (0.13)	exon	20	28,107,594	28,107,984
0.013 (0.13)	exon	20	28,107,594	28,107,984
0.013 (0.13)	intron	20	28,107,188	28,107,594
0.027 (0.14)	intron	2	44,237,811	44,240,432
0.027 (0.14)	intron	2	44,237,811	44,240,432
0.027 (0.14)	intron	2	44,237,811	44,240,432
0.02 (0.18)	intron	12	15,690,956	15,784,246
0.031 (0.128)	intron	12	15,690,956	15,784,246
0.037 (0.154)	downstream	12	15,789,813	15,790,813
0.037 (0.154)	downstream	12	15,789,813	15,790,813
0.028 (0.135)	exon	20	13,999,047	13,999,122
0.028 (0.135)	intron	20	13,999,122	13,999,604
0.02 (0.1)	intron	20	13,614,757	13,619,739
0.02 (0.1)	intron	20	13,614,757	13,619,739
0.071 (0.149)	intron	16	79,486,202	79,496,322
0.04 (0.115)	intron	15	24,228,064	24,276,974
0.043 (0.108)	intron	15	24,352,940	24,362,751
0.028 (0.07)	intron	9	102,065,810	102,156,203
0.021 (0.118)	intron	16	75,892,115	75,918,571
0.024 (0.134)	intron	16	75,892,115	75,918,571
0.024 (0.074)	exon	3	74,824,772	74,825,000
0.013 (0.102)	intron	3	74,827,210	74,830,852
0.024 (0.074)	intron	3	74,823,839	74,824,772
0.013 (0.102)	intron	3	74,827,213	74,830,852
0.024 (0.074)	intron	3	74,825,000	74,826,961
0.024 (0.074)	intron	3	74,825,000	74,826,961
0.024 (0.074)	exon	3	74,824,772	74,825,000
0.024 (0.074)	intron	3	74,823,767	74,824,772
0.092 (0.075)	exon	1	84,804,420	84,805,787

0.08 (0.098)	intron	1	26,631,354	26,694,449
0.01 (0.151)	intron	6	110,357,060	110,369,744
0.01 (0.151)	exon	6	110,369,744	110,369,809
0.025 (0.112)	intron	16	81,395,464	81,404,438
0.025 (0.112)	intron	16	81,395,464	81,404,438
0.025 (0.112)	intron	16	81,395,464	81,404,438
0.025 (0.112)	intron	16	81,395,464	81,404,438
0.026 (0.119)	intron	4	9,571,584	9,574,378
0.026 (0.119)	intron	4	9,571,584	9,574,378
0.019 (0.065)	intron	2	9,682,119	9,687,370
0.019 (0.065)	intron	2	9,682,119	9,687,370
0.023 (0.1)	upstream	5	169,268,006	169,269,006
0.016 (0.192)	intron	8	32,194,706	32,221,105
0.016 (0.192)	intron	8	32,194,706	32,221,105
0.037 (0.236)	intron	1	15,753,542	15,756,047
0.037 (0.236)	intron	1	15,753,542	15,756,047
0.04 (0.102)	intron	4	10,015,983	10,041,066
0.04 (0.102)	intron	4	10,015,983	10,041,066
0.04 (0.102)	intron	4	10,015,983	10,041,066
0.04 (0.102)	intron	4	10,015,983	10,041,066
0.018 (0.17)	intron	4	165,637,620	165,699,271
0.556 (0.007)	intron	16	54,381,762	54,382,444
0.556 (0.007)	intron	16	54,381,762	54,382,444
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.462 (0.066)	downstream	10	82,762,795	82,763,795
0.012 (0.151)	intron	19	52,193,737	52,213,642
0.012 (0.151)	intron	19	52,193,737	52,213,642
0.012 (0.151)	intron	19	52,193,758	52,213,642
0.031 (0.128)	intron	12	15,756,528	15,767,821
0.016 (0.184)	intron	18	3,756,080	3,777,647
0.018 (0.084)	intron	4	125,978,279	126,001,652
0.018 (0.084)	intron	4	125,978,279	126,001,652
0.018 (0.084)	intron	4	125,978,279	126,001,652

0.04 (0.081)	intron	2	28,670,545	28,729,097
0.04 (0.081)	intron	2	28,670,545	28,729,097
0.013 (0.15)	intron	19	14,328,297	14,332,448
0.027 (0.124)	intron	16	17,368,195	17,397,935
0.038 (0.035)	intron	15	85,266,906	85,379,826
0.111 (0.096)	upstream	10	105,373,626	105,374,626
0.111 (0.096)	upstream	10	105,373,626	105,374,626
0.068 (0.13)	upstream	4	119,369,308	119,370,308
0.03 (0.137)	intron	12	39,445,327	39,449,931
0.074 (0.112)	intron	1	149,750,764	149,751,978
0.038 (0.123)	intron	14	6,356,219	6,356,418
0.038 (0.123)	exon	14	6,356,101	6,356,219
0.038 (0.123)	exon	14	6,356,418	6,356,540
0.059 (0.117)	intron	14	6,356,540	6,359,542
0.571 (0.076)	intron	2	196,340,660	196,345,693
0.571 (0.076)	intron	2	196,340,660	196,345,693
0.031 (0.141)	intron	14	17,225,123	17,280,553
0.571 (0.096)	downstream	1	85,488,088	85,489,088
0.032 (0.171)	intron	3	11,923,267	11,927,989
0.018 (0.167)	intron	3	11,923,267	11,927,989
0.018 (0.167)	intron	3	11,923,267	11,927,989
0.032 (0.171)	intron	3	11,923,267	11,927,989
0.036 (0.127)	intron	13	86,816,883	86,901,066
0.014 (0.112)	intron	5	167,638,744	167,659,981
0.014 (0.112)	intron	5	167,638,744	167,659,981
0.014 (0.112)	intron	5	167,638,744	167,659,981
0.052 (0.123)	intron	4	152,176,236	152,276,168
0.019 (0.13)	intron	2	158,488,991	158,591,838
0.019 (0.13)	intron	2	158,488,991	158,591,838
0.012 (0.148)	intron	4	132,665,867	132,724,051
0.012 (0.148)	intron	4	132,716,626	132,724,051
0.012 (0.148)	intron	4	132,716,626	132,724,051
0.012 (0.148)	intron	4	132,716,626	132,724,051
0.012 (0.148)	intron	4	132,665,867	132,724,051
0.071 (0.121)	intron	20	43,225,875	43,226,507
0.313 (0.148)	intron	3	76,042,814	76,048,656
0.313 (0.148)	intron	3	76,042,814	76,048,656
0.017 (0.097)	intron	4	43,357,843	43,477,628

0.017 (0.097)	intron	4	43,357,843	43,477,628
0.017 (0.097)	intron	4	43,357,843	43,477,628
0.012 (0.08)	intron	5	126,183,176	126,195,248
0.625 (0.008)	intron	9	86,839,028	86,869,591
0.022 (0.135)	intron	19	50,097,754	50,111,592
0.6 (0.07)	intron	9	60,772,757	60,785,544
0.6 (0.07)	intron	9	60,772,757	60,785,544
0.114 (0.066)	downstream	16	82,837,695	82,838,695
0.114 (0.066)	downstream	16	82,837,695	82,838,695
0.043 (0.141)	intron	13	81,707,854	81,796,317
0.016 (0.115)	intron	3	104,871,163	104,873,356
0.016 (0.115)	intron	3	104,871,163	104,873,356
0.021 (0.104)	intron	11	79,435,065	79,438,311
0.028 (0.168)	intron	5	158,287,483	158,437,690
0.028 (0.168)	intron	5	158,287,483	158,437,690
0.023 (0.1)	upstream	5	169,268,007	169,269,007
0.012 (0.162)	intron	10	83,978,012	83,980,894
0.012 (0.162)	intron	10	83,978,012	83,980,894
0.012 (0.162)	intron	10	83,976,206	83,980,894
0.012 (0.162)	intron	10	83,978,012	83,980,894
0.012 (0.162)	intron	10	83,976,206	83,980,894
0.048 (0.102)	exon	13	52,845,991	52,849,771
0.048 (0.102)	exon	13	52,845,991	52,848,984
0.048 (0.102)	intron	13	52,840,725	52,851,042
0.059 (0.108)	upstream	1	85,260,147	85,261,147
0.059 (0.108)	upstream	1	85,260,147	85,261,147
0.022 (0.13)	exon	3	108,930,762	108,931,041
0.022 (0.13)	intron	3	108,927,992	108,930,762
0.029 (0.113)	intron	15	106,634,703	106,635,107
0.029 (0.113)	3'UTR	15	106,634,564	106,634,703
0.029 (0.113)	exon	15	106,634,564	106,634,703
0.029 (0.113)	intron	15	106,634,703	106,635,107
0.029 (0.113)	exon	15	106,634,564	106,634,703
0.029 (0.113)	exon	15	106,634,572	106,634,703
0.029 (0.113)	exon	15	106,634,564	106,634,703
0.029 (0.113)	exon	15	106,634,564	106,634,703
0.029 (0.113)	intron	15	106,634,703	106,635,107
0.029 (0.113)	intron	15	106,634,703	106,635,107

0.029 (0.113)	intron	15	106,634,703	106,635,107
0.029 (0.113)	intron	15	106,634,703	106,635,107
0.029 (0.113)	exon	15	106,634,564	106,634,703
0.104 (0.075)	intron	2	43,092,302	43,124,987
0.104 (0.075)	intron	2	43,092,302	43,124,987
0.018 (0.195)	downstream	5	160,518,857	160,519,857
0.023 (0.079)	intron	5	145,416,611	145,425,173
0.023 (0.079)	intron	5	145,410,946	145,425,173
0.106 (0.097)	intron	3	7,496,643	7,524,043
0.106 (0.097)	intron	3	7,516,437	7,524,043
0.047 (0.108)	intron	1	13,385,900	13,572,433
0.053 (0.039)	intron	1	13,383,168	13,385,786
0.083 (0.165)	downstream	9	105,784,268	105,785,268
0.083 (0.165)	downstream	9	105,784,268	105,785,268
0.013 (0.134)	3'UTR	11	73,147,651	73,148,932
0.013 (0.134)	exon	11	73,147,651	73,148,932
0.013 (0.134)	upstream	11	73,148,932	73,149,932
0.455 (0.051)	intron	10	109,849,240	110,020,353
0.583 (0.041)	upstream	19	25,293,433	25,294,433
0.583 (0.041)	upstream	19	25,293,433	25,294,433
0.583 (0.041)	upstream	19	25,293,433	25,294,433
0.583 (0.041)	intron	19	25,293,432	25,300,699
0.5 (0.105)	intron	13	32,714,833	32,716,476
0.6 (0.16)	intron	19	49,645,537	49,649,660
0.032 (0.182)	intron	5	106,164,165	106,297,994
0.032 (0.182)	intron	5	106,164,165	106,297,994
0.037 (0.113)	upstream	8	48,907,693	48,908,693
0.015 (0.126)	intron	4	9,276,573	9,285,502
0.021 (0.109)	intron	12	7,885,613	7,904,181
0.013 (0.083)	upstream	12	1,552,353	1,553,353
0.013 (0.083)	upstream	12	1,552,353	1,553,353
0.019 (0.093)	intron	8	127,592,040	127,593,372
0.012 (0.19)	intron	1	190,108,640	190,109,663
0.012 (0.19)	intron	1	190,108,640	190,109,663
0.012 (0.19)	exon	1	190,109,663	190,109,778
0.012 (0.19)	exon	1	190,109,663	190,109,778
0.6 (0.1)	intron	19	27,908,780	27,922,589
0.6 (0.1)	intron	19	27,908,780	27,922,589

0.034 (0.074)	intron	4	128,356,111	128,596,806
0.025 (0.133)	upstream	9	93,099,368	93,100,368
0.056 (0.198)	intron	5	51,219,898	51,223,453
0.016 (0.161)	intron	20	43,586,897	43,642,495
0.016 (0.161)	intron	20	43,586,897	43,642,495
0.147 (0.1)	exon	20	13,116,298	13,116,709
0.076 (0.038)	intron	13	67,544,405	67,578,397
0.076 (0.038)	intron	13	67,544,405	67,578,397
0.014 (0.117)	intron	18	3,687,839	3,692,202
0.625 (0.002)	intron	X	55,966,136	55,968,717
0.017 (0.051)	upstream	2	236,070,887	236,071,887
0.5 (0.177)	intron	16	80,710,530	80,761,951
0.5 (0.177)	intron	16	80,710,530	80,761,951
0.038 (0.16)	intron	4	5,500,612	5,580,631
0.571 (0.102)	intron	4	5,500,612	5,580,631
0.048 (0.073)	intron	13	78,222,704	78,224,216
0.048 (0.073)	intron	13	78,222,704	78,224,216
0.048 (0.073)	intron	13	78,222,704	78,224,216
0.034 (0.084)	intron	17	27,481,205	27,497,055
0.034 (0.084)	intron	17	27,473,936	27,497,055
0.034 (0.084)	intron	17	27,474,054	27,497,055
0.034 (0.084)	intron	17	27,473,936	27,497,055
0.047 (0.124)	intron	17	11,498,091	11,552,622
0.192 (0.067)	intron	17	11,630,315	11,736,990
0.047 (0.124)	intron	17	11,498,091	11,552,622
0.047 (0.124)	intron	17	11,498,091	11,552,622
0.192 (0.067)	intron	17	11,630,315	11,736,990
0.192 (0.067)	intron	17	11,630,315	11,736,990
0.192 (0.067)	intron	17	11,681,664	11,736,990
0.5 (0.157)	intron	1	67,874,609	67,874,759
0.084 (0.033)	exon	4	156,324,272	156,324,435
0.084 (0.033)	exon	4	156,324,272	156,324,435
0.084 (0.033)	exon	4	156,324,272	156,324,435
0.039 (0.159)	exon	3	58,744,323	58,744,470
0.039 (0.159)	exon	3	58,744,323	58,744,470
0.039 (0.159)	exon	3	58,744,323	58,744,470
0.039 (0.159)	exon	3	58,744,323	58,744,470
0.039 (0.159)	exon	3	58,744,323	58,744,470

0.039 (0.159)	intron	3	58,744,470	58,785,045
0.043 (0.156)	intron	3	58,810,635	58,811,530
0.039 (0.159)	intron	3	58,744,470	58,785,045
0.039 (0.159)	intron	3	58,744,470	58,785,045
0.043 (0.156)	intron	3	58,810,635	58,811,530
0.043 (0.156)	intron	3	58,785,096	58,811,530
0.043 (0.156)	intron	3	58,810,635	58,811,530
0.043 (0.156)	intron	3	58,810,635	58,811,530
0.039 (0.159)	intron	3	58,744,470	58,785,045
0.039 (0.159)	intron	3	58,744,470	58,785,045
0.012 (0.161)	intron	10	91,035,059	91,039,974
0.086 (0.13)	intron	17	74,844,313	74,844,601
0.086 (0.13)	intron	17	74,844,313	74,846,966
0.086 (0.13)	intron	17	74,844,313	74,845,291
0.029 (0.107)	exon	7	140,328,789	140,329,260
0.029 (0.107)	upstream	7	140,329,260	140,330,260
0.023 (0.144)	intron	1	4,481,813	4,485,520
0.023 (0.144)	intron	1	4,481,813	4,485,520
0.023 (0.144)	intron	1	4,481,813	4,485,520
0.027 (0.072)	intron	9	53,272,498	53,273,627
0.013 (0.123)	intron	9	102,649,335	102,686,954
0.013 (0.123)	intron	9	102,649,335	102,686,954
0.053 (0.108)	upstream	9	102,644,928	102,645,928
0.013 (0.123)	intron	9	102,649,610	102,665,146
0.053 (0.108)	intron	9	102,642,627	102,649,145
0.053 (0.108)	intron	9	102,642,627	102,649,145
0.016 (0.127)	upstream	1	72,948,877	72,949,877
0.016 (0.127)	upstream	1	72,948,877	72,949,877
0.016 (0.127)	exon	1	72,948,535	72,948,877
0.016 (0.127)	exon	1	72,948,535	72,948,877
0.5 (0.142)	intron	14	85,663,902	85,666,933
0.5 (0.142)	intron	14	85,663,902	85,666,933
0.5 (0.142)	intron	14	85,663,902	85,666,933
0.143 (0.153)	intron	3	8,370,842	8,426,807
0.046 (0.134)	intron	5	168,164,792	168,168,799
0.046 (0.134)	intron	5	168,164,792	168,168,799
0.061 (0.09)	intron	5	168,164,792	168,168,799
0.061 (0.09)	intron	5	168,164,792	168,168,799

0.013 (0.155)	intron	1	253,196,383	253,202,466
0.03 (0.037)	intron	9	46,494,201	46,497,029
0.03 (0.037)	intron	9	46,494,201	46,496,964
0.031 (0.062)	intron	5	156,684,154	156,691,135
0.031 (0.062)	intron	5	156,684,154	156,691,135
0.069 (0.148)	intron	4	182,691,556	182,725,790
0.032 (0.116)	intron	4	182,691,556	182,692,779
0.032 (0.116)	intron	4	182,691,556	182,725,790
0.069 (0.148)	intron	4	182,691,556	182,692,779
0.017 (0.146)	intron	5	157,980,961	158,028,775
0.017 (0.146)	intron	5	157,980,961	158,028,775
0.017 (0.146)	intron	5	157,980,961	158,028,775
0.022 (0.17)	downstream	5	145,408,365	145,409,365
0.031 (0.079)	intron	9	39,461,535	39,462,297
0.031 (0.079)	intron	9	39,461,535	39,462,297
0.031 (0.079)	intron	9	39,461,535	39,462,297
0.041 (0.148)	intron	4	183,804,324	183,806,886
0.041 (0.148)	intron	4	183,804,324	183,806,886
0.041 (0.148)	intron	4	183,804,324	183,806,886
0.041 (0.148)	intron	4	183,804,324	183,806,886
0.036 (0.123)	intron	14	110,243,555	110,244,792
0.036 (0.123)	exon	14	110,244,792	110,244,853
0.036 (0.123)	exon	14	110,244,857	110,244,875
0.036 (0.123)	intron	14	110,243,555	110,245,294
0.036 (0.123)	intron	14	110,244,853	110,244,857
0.036 (0.123)	upstream	14	110,244,875	110,245,875
0.179 (0.087)	intron	20	24,636,640	24,686,081
0.061 (0.096)	intron	12	41,330,784	41,337,390
0.089 (0.106)	intron	20	9,887,131	9,891,454
0.015 (0.162)	intron	20	9,822,887	9,866,651
0.056 (0.178)	intron	20	12,967,638	12,984,417
0.022 (0.153)	downstream	11	37,766,795	37,767,795
0.214 (0.151)	intron	11	35,041,368	35,115,579
0.214 (0.151)	intron	11	35,041,368	35,115,579
0.583 (0.1)	intron	10	108,922,366	108,923,036
0.029 (0.098)	intron	15	108,786,762	108,905,107
0.029 (0.098)	intron	15	108,786,762	108,905,107
0.022 (0.091)	intron	6	48,071,965	48,078,157

0.022 (0.091)	intron	6	48,071,965	48,078,157
0.014 (0.152)	intron	3	47,275,915	47,279,666
0.024 (0.115)	intron	3	47,280,824	47,294,338
0.014 (0.152)	intron	3	47,275,915	47,279,666
0.014 (0.152)	intron	3	47,275,915	47,279,666
0.024 (0.115)	intron	3	47,280,824	47,294,338
0.024 (0.115)	intron	3	47,280,824	47,294,338
0.018 (0.051)	3'UTR	6	54,651,838	54,652,276
0.018 (0.051)	downstream	6	54,652,276	54,653,276
0.018 (0.051)	exon	6	54,651,788	54,652,276
0.066 (0.087)	intron	6	145,244,691	145,261,934
0.027 (0.062)	intron	7	115,930,383	116,037,650
0.027 (0.178)	intron	5	163,939,195	164,082,629
0.027 (0.178)	intron	5	163,939,195	164,082,629
0.038 (0.113)	intron	13	44,538,198	44,546,898
0.038 (0.113)	exon	13	44,536,741	44,538,198
0.037 (0.11)	intron	8	1,269,573	1,435,970
0.037 (0.11)	intron	8	1,269,573	1,435,970
0.037 (0.11)	intron	8	1,269,573	1,435,970
0.6 (0.146)	intron	3	163,749,510	163,773,319
0.068 (0.055)	downstream	13	48,364,610	48,365,610
0.031 (0.084)	intron	5	66,066,568	66,083,419
0.206 (0.084)	intron	4	43,687,337	43,689,437
0.039 (0.128)	intron	10	20,788,615	20,795,295
0.179 (0.053)	intron	15	14,202,559	14,214,979
0.179 (0.053)	intron	15	14,199,300	14,214,979
0.179 (0.053)	intron	15	14,202,559	14,214,979
0.179 (0.053)	intron	15	14,201,671	14,214,979
0.052 (0.138)	intron	3	10,165,847	10,238,819
0.625 (0.123)	intron	4	172,835,454	172,914,497
0.032 (0.033)	intron	2	69,651,452	69,672,089
0.036 (0.096)	intron	4	62,698,741	62,701,567
0.036 (0.096)	intron	4	62,698,741	62,701,567
0.018 (0.063)	intron	15	106,213,318	106,225,444
0.04 (0.083)	intron	15	106,213,318	106,225,444
0.017 (0.095)	intron	10	86,278,079	86,279,208
0.017 (0.095)	intron	10	86,278,079	86,279,208
0.017 (0.095)	intron	10	86,278,079	86,279,208

0.017 (0.095)	intron	10	86,278,079	86,279,208
0.024 (0.148)	intron	17	13,997,649	14,000,874
0.024 (0.148)	intron	17	13,997,649	14,000,696
0.571 (0.072)	intron	19	31,582,511	31,627,694
0.061 (0.1)	intron	4	8,962,287	8,966,958
0.035 (0.063)	intron	4	8,967,114	8,973,526
0.05 (0.061)	intron	3	161,406,089	161,418,720
0.05 (0.061)	intron	3	161,399,780	161,418,720
0.05 (0.061)	intron	3	161,406,089	161,413,562
0.05 (0.061)	intron	3	161,406,089	161,413,562
0.05 (0.061)	intron	3	161,399,780	161,428,828
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.011 (0.101)	intron	16	49,778,862	49,785,500
0.023 (0.18)	intron	18	14,586,920	14,618,341
0.015 (0.225)	intron	1	155,723,968	155,725,640
0.015 (0.225)	intron	1	155,723,968	155,725,640
0.125 (0.07)	exon	8	58,788,000	58,788,147
0.064 (0.111)	intron	18	6,449,624	6,628,189
0.03 (0.142)	intron	1	189,565,033	189,584,733
0.03 (0.142)	intron	1	189,565,033	189,584,733
0.03 (0.142)	intron	1	189,565,033	189,584,733
0.03 (0.142)	intron	1	189,550,452	189,584,733
0.03 (0.142)	intron	1	189,565,033	189,584,733
0.03 (0.142)	intron	1	189,563,712	189,584,733
0.022 (0.091)	intron	9	71,642,183	71,735,472
0.047 (0.156)	intron	16	83,851,374	83,878,030
0.047 (0.156)	intron	16	83,851,374	83,878,030
0.047 (0.156)	intron	16	83,851,374	83,878,030
0.047 (0.107)	intron	6	12,632,510	12,637,003
0.047 (0.107)	exon	6	12,637,003	12,637,189
0.047 (0.107)	exon	6	12,637,003	12,637,189
0.047 (0.107)	intron	6	12,632,510	12,637,003
0.047 (0.107)	exon	6	12,637,003	12,637,189

0.047 (0.107)	intron	6	12,636,224	12,637,003
0.047 (0.107)	intron	6	12,637,189	12,639,690
0.047 (0.107)	intron	6	12,637,189	12,639,690
0.047 (0.107)	intron	6	12,632,510	12,639,690
0.047 (0.107)	intron	6	12,637,189	12,639,690
0.025 (0.154)	intron	6	12,865,526	12,925,920
0.025 (0.154)	intron	6	12,865,526	12,925,920
0.01 (0.187)	intron	18	4,285,134	4,291,057
0.055 (0.092)	intron	2	30,890,355	30,891,147
0.055 (0.092)	exon	2	30,889,816	30,890,355
0.042 (0.071)	intron	5	168,286,088	168,291,305
0.042 (0.071)	intron	5	168,286,088	168,291,305
0.042 (0.071)	intron	5	168,286,088	168,291,305
0.02 (0.141)	intron	19	11,071,931	11,078,711
0.028 (0.068)	intron	5	158,594,087	158,643,754
0.015 (0.162)	intron	1	164,722,312	164,772,757
0.083 (0.117)	exon	9	74,829,625	74,829,810
0.083 (0.117)	exon	9	74,829,625	74,829,810
0.083 (0.117)	exon	9	74,829,625	74,829,810
0.022 (0.146)	intron	1	203,383,855	203,426,071
0.022 (0.146)	intron	1	203,383,721	203,459,580
0.019 (0.108)	upstream	2	190,762,376	190,763,376
0.014 (0.117)	intron	2	121,630,327	121,679,188
0.583 (0.03)	intron	13	90,933,659	91,210,244
0.128 (0.156)	intron	13	90,933,659	91,210,244
0.5 (0.042)	intron	7	55,782,260	55,806,767
0.027 (0.126)	intron	3	89,254,471	89,380,782
0.025 (0.121)	intron	11	73,333,482	73,363,854
0.031 (0.073)	downstream	13	44,919,902	44,920,902
0.031 (0.073)	intron	13	44,920,958	44,922,588
0.031 (0.073)	intron	13	44,910,268	44,922,588
0.031 (0.073)	exon	13	44,920,902	44,920,958
0.031 (0.073)	downstream	13	44,919,902	44,920,902
0.031 (0.073)	exon	13	44,920,902	44,920,958
0.031 (0.073)	intron	13	44,920,958	44,922,588
0.571 (0.096)	intron	1	85,487,946	85,488,827
0.032 (0.179)	exon	16	71,907,118	71,907,214
0.032 (0.179)	intron	16	71,907,214	71,912,273

0.013 (0.089)	upstream	17	15,895,367	15,896,367
0.045 (0.061)	intron	3	40,778,183	40,856,713
0.041 (0.087)	5'UTR	3	165,213,540	165,213,573
0.041 (0.087)	intron	3	165,213,573	165,213,665
0.041 (0.087)	upstream	3	165,212,540	165,213,540
0.041 (0.087)	exon	3	165,213,540	165,213,573
0.026 (0.118)	intron	19	53,188,864	53,190,417
0.068 (0.093)	intron	2	252,633,539	252,672,255
0.021 (0.109)	upstream	12	7,891,407	7,892,407
0.159 (0.007)	intron	12	40,151,228	40,225,769
0.6 (0.043)	intron	2	179,088,913	179,227,647
0.039 (0.148)	intron	7	138,827,694	138,847,150
0.02 (0.15)	intron	7	138,688,918	138,827,484
0.035 (0.109)	intron	8	118,909,081	118,919,789
0.5 (0.023)	intron	4	3,235,088	3,344,872
0.5 (0.023)	intron	4	3,235,088	3,565,245
0.098 (0.019)	intron	15	79,582,819	79,771,222
0.098 (0.019)	intron	15	79,582,819	79,771,222
0.017 (0.127)	intron	16	71,866,438	71,870,250
0.022 (0.18)	intron	8	111,017,958	111,019,312
0.022 (0.18)	upstream	8	111,018,335	111,019,335
0.6 (0.017)	intron	4	76,734,402	76,857,149
0.026 (0.165)	exon	7	1,055,388	1,055,442
0.026 (0.165)	intron	7	1,055,376	1,055,388
0.026 (0.165)	exon	7	1,054,484	1,054,649
0.026 (0.165)	intron	7	1,054,649	1,055,208
0.026 (0.165)	exon	7	1,055,208	1,055,376
0.04 (0.133)	intron	8	115,861,900	115,876,541
0.01 (0.11)	exon	2	201,430,495	201,430,637
0.01 (0.11)	intron	2	201,422,022	201,430,289
0.01 (0.11)	exon	2	201,430,289	201,430,409
0.01 (0.11)	intron	2	201,430,409	201,430,495
0.049 (0.051)	intron	2	201,387,321	201,401,002
0.042 (0.15)	upstream	4	78,807,400	78,808,400
0.041 (0.112)	exon	11	37,730,168	37,730,235
0.041 (0.112)	intron	11	37,730,164	37,730,168
0.041 (0.112)	exon	11	37,730,260	37,730,343
0.041 (0.112)	intron	11	37,730,235	37,730,260

0.041 (0.112)	upstream	11	37,730,343	37,731,343
0.041 (0.112)	exon	11	37,730,113	37,730,164
0.074 (0.135)	intron	9	101,293,218	101,532,533
0.027 (0.04)	upstream	5	80,597,573	80,598,573
0.051 (0.122)	upstream	1	85,504,431	85,505,431
0.051 (0.122)	exon	1	85,505,431	85,505,538
0.051 (0.122)	5'UTR	1	85,505,431	85,505,538
0.027 (0.062)	upstream	7	115,976,941	115,977,941
0.022 (0.047)	intron	2	230,675,795	230,697,881
0.046 (0.045)	intron	10	67,049,926	67,065,480
0.135 (0.083)	intron	5	152,218,302	152,379,095
0.01 (0.212)	intron	2	189,024,362	189,052,866
0.014 (0.075)	intron	2	188,861,572	189,024,297
0.014 (0.075)	intron	2	188,861,572	189,024,297
0.01 (0.212)	intron	2	189,024,362	189,052,866
0.086 (0.117)	intron	1	90,861,908	90,861,910
0.086 (0.117)	exon	1	90,861,683	90,861,908
0.086 (0.117)	exon	1	90,861,910	90,862,006
0.108 (0.086)	3'UTR	10	45,481,617	45,482,421
0.108 (0.086)	exon	10	45,481,617	45,482,421
0.03 (0.037)	intron	9	46,467,172	46,654,691
0.185 (0.046)	intron	19	29,168,011	29,191,275
0.015 (0.069)	intron	13	48,146,379	48,292,609
0.02 (0.114)	intron	16	10,475,925	10,602,541
0.035 (0.2)	intron	17	12,811,981	12,854,073
0.017 (0.145)	intron	3	3,893,296	3,893,837
0.03 (0.095)	intron	3	430,993	579,427
0.043 (0.141)	upstream	13	81,795,197	81,796,197
0.017 (0.09)	downstream	1	165,836,402	165,837,402
0.036 (0.009)	downstream	2	613,895	614,895
0.032 (0.125)	downstream	20	10,204,247	10,205,247
0.014 (0.075)	intron	2	188,861,069	189,028,299
0.01 (0.212)	intron	2	189,028,334	189,088,428
0.016 (0.127)	intron	1	72,661,541	72,987,734
0.016 (0.127)	intron	1	72,824,787	72,987,777
0.016 (0.127)	intron	1	72,932,853	72,959,825
0.027 (0.116)	intron	2	193,306,924	193,314,220
0.061 (0.1)	intron	4	8,943,021	8,977,746

0.035 (0.063)	intron	4	8,943,021	8,977,746
0.028 (0.127)	downstream	17	93,271,782	93,272,782
0.061 (0.112)	downstream	20	12,371,390	12,372,390
0.135 (0.083)	upstream	5	152,235,563	152,236,563
0.223 (0.045)	N/A			
0.122 (0.031)	N/A			
0.058 (0.138)	N/A			
0.064 (0.125)	N/A			
0.170 (0.018)	N/A			
0.073 (0.05)	N/A			
0.121 (0.044)	N/A			
0.112 (0.023)	N/A			
0.003 (0.032)	N/A			
0.085 (0.015)	N/A			
0.154 (0.023)	N/A			
0.140 (0.061)	N/A			
0.093 (0.039)	N/A			
0.152 (0.011)	N/A			
0.076 (0.035)	N/A			
0.103 (0.020)	N/A			
0.098 (0.5)	N/A			
0.156 (0.011)	N/A			
0.162 (0.024)	N/A			
0.089 (0.028)	N/A			
0.128 (0.583)	N/A			
0.029 (0.019)	N/A			
0.089 (0.428)	N/A			
0.150 (0.013)	N/A			
0.085 (0.011)	N/A			
0.153 (0.010)	N/A			
0.185 (0.032)	N/A			
0.062 (0.013)	N/A			
0.144 (0.040)	N/A			
0.112 (0.04)	N/A			
0.022 (0.312)	N/A			
0.193 (0.014)	N/A			
0.022 (0.021)	N/A			
0.023 (0.030)	N/A			

0.061 (0.053)	N/A
0.104 (0.071)	N/A
0.152 (0.036)	N/A
0.069 (0.026)	N/A
0.120 (0.040)	N/A
0.067 (0.052)	N/A
0.170 (0.263)	N/A
0.068 (0.096)	N/A
0.119 (0.039)	N/A
0.072 (0.115)	N/A
0.013 (0.625)	N/A
0.152 (0.388)	N/A
0.161 (0.5)	N/A
0.117 (0.011)	N/A
0.094 (0.010)	N/A
0.202 (0.057)	N/A
0.191 (0.040)	N/A
0.083 (0.042)	N/A
0.123 (0.040)	N/A
0.111 (0.028)	N/A
0.174 (0.153)	N/A
0.039 (0.5)	N/A
0.082 (0.022)	N/A
0.144 (0.033)	N/A
0.192 (0.027)	N/A
0.117 (0.036)	N/A
0.137 (0.043)	N/A
0.210 (0.024)	N/A
0.086 (0.212)	N/A
0.101 (0.018)	N/A
0.066 (0.052)	N/A
0.116 (0.019)	N/A
0.129 (0.2)	N/A
0.146 (0.053)	N/A
0.068 (0.034)	N/A
0.169 (0.014)	N/A
0.159 (0.018)	N/A
0.146 (0.045)	N/A

0.065 (0.014)	N/A
0.072 (0.3)	N/A
0.087 (0.049)	N/A
0.183 (0.011)	N/A
0.084 (0.050)	N/A
0.149 (0.023)	N/A
0.125 (0.010)	N/A
0.122 (0.022)	N/A
0.114 (0.014)	N/A
0.114 (0.014)	N/A
0.130 (0.015)	N/A
0.027 (0.583)	N/A
0.017 (0.416)	N/A
0.105 (0.014)	N/A
0.083 (0.040)	N/A
0.136 (0.057)	N/A
0.082 (0.072)	N/A
0.122 (0.046)	N/A
0.012 (0.625)	N/A
0.104 (0.042)	N/A
0.032 (0.034)	N/A
0.181 (0.016)	N/A
0.054 (0.017)	N/A
0.066 (0.040)	N/A
0.091 (0.027)	N/A
0.049 (0.020)	N/A
0.088 (0.034)	N/A
0.078 (0.032)	N/A
0.194 (0.5)	N/A
0.108 (0.018)	N/A
0.069 (0.010)	N/A
0.081 (0.043)	N/A
0.143 (0.011)	N/A
0.117 (0.071)	N/A
0.042 (0.010)	N/A
0.096 (0.053)	N/A
0.087 (0.4)	N/A
0.077 (0.016)	N/A

0.120 (0.014)	N/A
0.122 (0.028)	N/A
0.125 (0.050)	N/A
0.115 (0.063)	N/A
0.075 (0.086)	N/A
0.065 (0.061)	N/A
0.104 (0.6)	N/A
0.140 (0.072)	N/A
0.163 (0.037)	N/A
0.104 (0.033)	N/A
0.036 (0.5)	N/A
0.103 (0.285)	N/A
0.060 (0.013)	N/A
0.174 (0.017)	N/A
0.090 (0.030)	N/A
0.195 (0.1)	N/A
0.072 (0.039)	N/A
0.137 (0.6)	N/A
0.111 (0.028)	N/A
0.129 (0.033)	N/A
0.166 (0.022)	N/A
0.100 (0.025)	N/A
0.179 (0.061)	N/A
0.182 (0.018)	N/A
0.118 (0.023)	N/A
0.158 (0.033)	N/A
0.176 (0.013)	N/A
0.111 (0.020)	N/A
0.111 (0.106)	N/A
0.155 (0.018)	N/A
0.129 (0.016)	N/A
0.111 (0.027)	N/A
0.068 (0.562)	N/A
0.045 (0.018)	N/A
0.026 (0.583)	N/A
0.117 (0.054)	N/A
0.107 (0.058)	N/A
0.112 (0.04)	N/A

0.055 (0.084)	N/A
0.062 (0.027)	N/A
0.073 (0.027)	N/A
0.132 (0.068)	N/A
0.050 (0.583)	N/A
0.086 (0.625)	N/A
0.194 (0.028)	N/A
0.106 (0.043)	N/A
0.113 (0.032)	N/A
0.190 (0.157)	N/A
0.119 (0.012)	N/A
0.087 (0.055)	N/A
0.181 (0.015)	N/A
0.158 (0.080)	N/A
0.161 (0.050)	N/A
0.101 (0.025)	N/A
0.135 (0.010)	N/A
0.167 (0.020)	N/A
0.101 (0.032)	N/A
0.121 (0.029)	N/A
0.086 (0.028)	N/A
0.118 (0.024)	N/A
0.147 (0.454)	N/A
0.136 (0.043)	N/A
0.134 (0.017)	N/A
0.111 (0.020)	N/A
0.115 (0.033)	N/A
0.151 (0.018)	N/A
0.052 (0.021)	N/A
0.082 (0.104)	N/A
0.162 (0.013)	N/A
0.136 (0.037)	N/A
0.052 (0.056)	N/A
0.085 (0.018)	N/A
0.133 (0.032)	N/A
0.079 (0.108)	N/A
0.131 (0.083)	N/A
0.125 (0.036)	N/A

0.101 (0.025)	N/A
0.085 (0.034)	N/A
0.099 (0.065)	N/A
0.174 (0.092)	N/A
0.131 (0.045)	N/A
0.059 (0.058)	N/A
0.165 (0.019)	N/A
0.138 (0.039)	N/A
0.040 (0.029)	N/A
0.051 (0.064)	N/A
0.099 (0.044)	N/A
0.091 (0.025)	N/A
0.024 (0.25)	N/A
0.133 (0.021)	N/A
0.041 (0.041)	N/A
0.097 (0.077)	N/A
0.008 (0.011)	N/A
0.114 (0.026)	N/A
0.163 (0.022)	N/A
0.166 (0.187)	N/A
0.118 (0.075)	N/A
0.041 (0.018)	N/A
0.045 (0.018)	N/A
0.165 (0.014)	N/A
0.093 (0.024)	N/A
0.143 (0.055)	N/A
0.167 (0.012)	N/A
0.160 (0.012)	N/A
0.179 (0.119)	N/A
0.023 (0.051)	N/A
0.141 (0.048)	N/A
0.159 (0.016)	N/A
0.024 (0.016)	N/A
0.070 (0.010)	N/A
0.008 (0.016)	N/A
0.121 (0.031)	N/A
0.050 (0.3)	N/A
0.110 (0.086)	N/A

0.072 (0.583)	N/A
0.134 (0.035)	N/A
0.159 (0.024)	N/A
0.091 (0.076)	N/A
0.027 (0.055)	N/A
0.143 (0.073)	N/A
0.161 (0.033)	N/A
0.081 (0.312)	N/A
0.188 (0.030)	N/A
0.120 (0.028)	N/A
0.049 (0.5)	N/A
0.044 (0.048)	N/A
0.047 (0.344)	N/A
0.130 (0.010)	N/A
0.041 (0.437)	N/A
0.069 (0.016)	N/A
0.118 (0.423)	N/A
0.068 (0.031)	N/A
0.106 (0.022)	N/A
0.105 (0.024)	N/A
0.030 (0.312)	N/A
0.051 (0.056)	N/A
0.123 (0.025)	N/A
0.143 (0.041)	N/A
0.198 (0.048)	N/A
0.137 (0.025)	N/A
0.206 (0.084)	N/A
0.120 (0.562)	N/A
0.084 (0.054)	N/A
0.124 (0.061)	N/A
0.157 (0.5)	N/A
0.073 (0.625)	N/A
0.139 (0.079)	N/A
0.246 (0.011)	N/A
0.135 (0.010)	N/A
0.042 (0.170)	N/A
0.116 (0.025)	N/A
0.100 (0.055)	N/A

0.002 (0.032)	N/A
0.212 (0.021)	N/A
0.099 (0.027)	N/A
0.163 (0.016)	N/A
0.124 (0.036)	N/A
0.120 (0.022)	N/A
0.102 (0.5)	N/A
0.108 (0.046)	N/A
0.085 (0.045)	N/A
0.155 (0.035)	N/A
0.022 (0.571)	N/A
0.177 (0.416)	N/A
0.100 (0.057)	N/A
0.092 (0.086)	N/A
0.105 (0.046)	N/A
0.141 (0.011)	N/A
0.122 (0.013)	N/A
0.132 (0.036)	N/A
0.087 (0.030)	N/A
0.153 (0.011)	N/A
0.115 (0.029)	N/A
0.060 (0.028)	N/A
0.187 (0.625)	N/A
0.128 (0.023)	N/A
0.088 (0.068)	N/A
0.051 (0.013)	N/A
0.120 (0.015)	N/A
0.100 (0.103)	N/A
0.166 (0.129)	N/A
0.082 (0.059)	N/A
0.107 (0.032)	N/A
0.182 (0.131)	N/A
0.184 (0.013)	N/A
0.070 (0.017)	N/A
0.038 (0.060)	N/A
0.116 (0.028)	N/A
0.128 (0.043)	N/A
0.192 (0.052)	N/A

0.047 (0.029)	N/A
0.072 (0.583)	N/A
0.069 (0.102)	N/A
0.144 (0.011)	N/A
0.014 (0.026)	N/A
0.128 (0.029)	N/A
0.141 (0.026)	N/A
0.096 (0.047)	N/A
0.068 (0.047)	N/A
0.154 (0.047)	N/A
0.136 (0.033)	N/A
0.105 (0.02)	N/A
0.009 (0.029)	N/A
0.156 (0.019)	N/A
0.082 (0.025)	N/A
0.136 (0.046)	N/A
0.103 (0.172)	N/A
0.171 (0.04)	N/A
0.093 (0.045)	N/A
0.037 (0.015)	N/A
0.097 (0.086)	N/A
0.142 (0.021)	N/A
0.109 (0.018)	N/A
0.060 (0.010)	N/A
0.025 (0.5)	N/A
0.126 (0.011)	N/A
0.067 (0.018)	N/A
0.164 (0.066)	N/A
0.089 (0.091)	N/A
0.100 (0.027)	N/A
0.043 (0.019)	N/A
0.137 (0.014)	N/A
0.067 (0.013)	N/A
0.146 (0.029)	N/A
0.180 (0.010)	N/A
0.121 (0.017)	N/A
0.127 (0.011)	N/A
0.121 (0.263)	N/A

0.246 (0.019)	N/A
0.066 (0.043)	N/A
0.042 (0.112)	N/A
0.209 (0.020)	N/A
0.019 (0.307)	N/A
0.063 (0.011)	N/A
0.111 (0.043)	N/A
0.156 (0.272)	N/A
0.153 (0.010)	N/A
0.033 (0.051)	N/A
0.048 (0.166)	N/A
0.154 (0.6)	N/A
0.082 (0.036)	N/A
0.117 (0.080)	N/A
0.088 (0.027)	N/A
0.189 (0.013)	N/A
0.047 (0.051)	N/A
0.152 (0.024)	N/A
0.133 (0.029)	N/A
0.078 (0.047)	N/A
0.090 (0.015)	N/A
0.173 (0.333)	N/A
0.086 (0.020)	N/A
0.084 (0.012)	N/A
0.106 (0.030)	N/A
0.104 (0.084)	N/A
0.245 (0.025)	N/A
0.070 (0.5)	N/A
0.078 (0.016)	N/A
0.071 (0.017)	N/A
0.150 (0.026)	N/A
0.146 (0.127)	N/A
0.137 (0.018)	N/A
0.108 (0.011)	N/A
0.101 (0.023)	N/A
0.060 (0.013)	N/A
0.152 (0.021)	N/A
0.147 (0.275)	N/A

0.149 (0.012)	N/A
0.102 (0.061)	N/A
0.148 (0.018)	N/A
0.141 (0.015)	N/A
0.179 (0.014)	N/A
0.142 (0.030)	N/A
0.049 (0.025)	N/A
0.144 (0.05)	N/A
0.150 (0.011)	N/A
0.097 (0.25)	N/A
0.042 (0.086)	N/A
0.146 (0.028)	N/A
0.109 (0.017)	N/A
0.067 (0.5)	N/A
0.152 (0.5)	N/A
0.150 (0.333)	N/A
0.171 (0.012)	N/A
0.162 (0.033)	N/A
0.068 (0.043)	N/A
0.078 (0.021)	N/A
0.031 (0.5)	N/A
0.175 (0.5)	N/A
0.086 (0.014)	N/A
0.143 (0.312)	N/A
0.165 (0.043)	N/A
0.075 (0.098)	N/A
0.191 (0.011)	N/A
0.116 (0.032)	N/A
0.185 (0.019)	N/A
0.074 (0.159)	N/A
0.139 (0.043)	N/A
0.141 (0.067)	N/A
0.055 (0.031)	N/A
0.196 (0.032)	N/A
0.071 (0.6)	N/A
0.099 (0.030)	N/A
0.150 (0.031)	N/A
0.366 (0.041)	N/A

0.140 (0.013)	N/A
0.123 (0.023)	N/A
0.127 (0.025)	N/A
0 (0.081)	N/A
0.113 (0.040)	N/A
0.147 (0.062)	N/A
0.111 (0.039)	N/A
0.093 (0.014)	N/A
0.130 (0.063)	N/A
0.063 (0.014)	N/A
0.160 (0.042)	N/A
0.079 (0.03)	N/A
0.158 (0.018)	N/A
0.103 (0.025)	N/A
0.074 (0.035)	N/A
0.118 (0.021)	N/A
0.106 (0.020)	N/A
0.090 (0.040)	N/A
0.048 (0.6)	N/A
0.174 (0.013)	N/A
0.160 (0.034)	N/A
0.119 (0.029)	N/A
0.155 (0.024)	N/A
0.148 (0.017)	N/A
0.098 (0.030)	N/A
0.176 (0.016)	N/A
0.103 (0.039)	N/A
0.146 (0.018)	N/A
0.229 (0.312)	N/A
0.132 (0.014)	N/A
0.136 (0.5)	N/A
0.187 (0.070)	N/A
0.038 (0.291)	N/A
0.084 (0.084)	N/A
0.088 (0.033)	N/A
0.067 (0.062)	N/A
0.065 (0.025)	N/A
0.063 (0.019)	N/A

0.022 (0.625)	N/A
0.121 (0.020)	N/A
0.157 (0.024)	N/A
0.074 (0.013)	N/A
0.153 (0.05)	N/A
0.034 (0.075)	N/A
0.192 (0.037)	N/A
0.071 (0.027)	N/A
0.112 (0.060)	N/A
0.146 (0.016)	N/A
0.144 (0.038)	N/A
0.025 (0.071)	N/A
0.183 (0.021)	N/A
0.182 (0.028)	N/A
0.083 (0.025)	N/A
0.176 (0.562)	N/A
0.087 (0.021)	N/A
0.151 (0.042)	N/A
0.162 (0.5)	N/A
0.042 (0.45)	N/A
0.174 (0.625)	N/A
0.017 (0.625)	N/A
0.141 (0.019)	N/A
0.177 (0.010)	N/A
0.145 (0.038)	N/A
0.006 (0.062)	N/A
0.043 (0.012)	N/A
0.048 (0.010)	N/A
0.042 (0.020)	N/A
0.086 (0.055)	N/A
0.078 (0.035)	N/A
0.116 (0.5)	N/A
0.031 (0.015)	N/A
0.145 (0.030)	N/A
0.138 (0.023)	N/A
0.118 (0.021)	N/A
0.173 (0.023)	N/A
0.093 (0.034)	N/A

0.004 (0.059)	N/A
0.128 (0.076)	N/A
0.047 (0.090)	N/A
0.084 (0.069)	N/A
0.142 (0.010)	N/A
0.044 (0.017)	N/A
0.134 (0.5)	N/A
0.163 (0.015)	N/A
0.089 (0.018)	N/A
0.087 (0.147)	N/A
0.035 (0.437)	N/A
0.130 (0.571)	N/A
0.129 (0.019)	N/A
0.034 (0.571)	N/A
0.189 (0.018)	N/A
0.104 (0.034)	N/A
0.065 (0.022)	N/A
0.145 (0.026)	N/A
0.091 (0.014)	N/A
0.134 (0.026)	N/A
0.123 (0.02)	N/A
0.086 (0.035)	N/A
0.151 (0.036)	N/A
0.120 (0.011)	N/A
0.078 (0.023)	N/A
0.137 (0.026)	N/A
0.126 (0.016)	N/A
0.054 (0.076)	N/A
0.078 (0.625)	N/A
0.129 (0.017)	N/A
0.128 (0.011)	N/A
0.111 (0.051)	N/A
0.125 (0.016)	N/A
0.090 (0.173)	N/A
0.155 (0.021)	N/A
0.139 (0.050)	N/A
0.049 (0.5)	N/A
0.083 (0.030)	N/A

0.122 (0.020)	N/A
0.141 (0.026)	N/A
0.020 (0.583)	N/A
0.127 (0.024)	N/A
0.062 (0.069)	N/A
0.180 (0.012)	N/A
0.126 (0.048)	N/A
0.194 (0.012)	N/A
0.051 (0.291)	N/A
0.091 (0.043)	N/A
0.148 (0.068)	N/A
0.029 (0.6)	N/A
0.060 (0.017)	N/A
0.080 (0.030)	N/A
0.066 (0.625)	N/A
0.138 (0.010)	N/A
0.126 (0.028)	N/A
0.089 (0.086)	N/A
0.181 (0.018)	N/A
0.165 (0.018)	N/A
0.047 (0.625)	N/A
0.170 (0.018)	N/A
0.118 (0.136)	N/A
0.103 (0.037)	N/A
0.085 (0.034)	N/A
0.131 (0.010)	N/A
0.201 (0.026)	N/A
0.175 (0.046)	N/A
0.149 (0.012)	N/A
0.078 (0.3)	N/A
0.152 (0.583)	N/A
0.164 (0.040)	N/A
0.054 (0.048)	N/A
0.152 (0.037)	N/A
0.095 (0.013)	N/A
0.113 (0.025)	N/A
0.112 (0.016)	N/A
0.077 (0.5)	N/A

0.127 (0.021)	N/A
0.000 (0.076)	N/A
0.002 (0.416)	N/A
0.112 (0.043)	N/A
0.162 (0.033)	N/A
0.046 (0.040)	N/A
0.161 (0.019)	N/A
0.033 (0.035)	N/A
0.158 (0.036)	N/A
0.034 (0.096)	N/A
0.105 (0.036)	N/A

ig DMRs are identified as those located within +/- 1kbp from the gene bounda

apping genomic feature

<i>Strand</i>	<i>Overlap with DMR (bp)</i>	<i>Overlapping Transcript ID</i>
-	116	ENSRNOT00000044178
-	16	ENSRNOT00000064708
-	165	ENSRNOT00000068644
-	64	ENSRNOT00000068327
-	285	ENSRNOT00000020265
-	343	ENSRNOT00000033491
-	404	ENSRNOT00000026481
-	21	ENSRNOT00000026481
-	21	ENSRNOT00000026477
-	404	ENSRNOT00000026477
+	57	ENSRNOT00000020452
-	46	ENSRNOT00000018138
-	169	ENSRNOT00000026962
+	51	ENSRNOT00000028277
+	476	ENSRNOT00000028094
-	59	ENSRNOT00000047200
-	43	ENSRNOT00000047200
-	11	ENSRNOT00000051086
+	60	ENSRNOT00000017601
+	284	ENSRNOT00000007312
-	376	ENSRNOT00000004609
+	386	ENSRNOT00000020230
+	144	ENSRNOT00000020230
+	295	ENSRNOT00000051058
+	295	ENSRNOT00000043981
+	392	ENSRNOT00000017181
-	183	ENSRNOT00000068327
+	333	ENSRNOT00000006832
-	113	ENSRNOT00000065049
-	113	ENSRNOT00000008138
-	94	ENSRNOT00000026477
-	94	ENSRNOT00000026481
+	8	ENSRNOT00000057067

+	157	ENSRNOT00000058724
+	157	ENSRNOT00000019512
+	157	ENSRNOT00000019452
-	348	ENSRNOT00000016983
-	686	ENSRNOT00000016983
-	44	ENSRNOT00000016983
+	259	ENSRNOT00000014241
+	259	ENSRNOT00000014249
+	246	ENSRNOT00000066976
+	246	ENSRNOT00000038566
+	246	ENSRNOT00000065975
-	631	ENSRNOT00000061615
-	631	ENSRNOT00000011955
+	176	ENSRNOT00000020452
-	145	ENSRNOT00000018138
+	120	ENSRNOT00000027999
+	197	ENSRNOT00000009241
+	197	ENSRNOT00000048391
-	584	ENSRNOT00000022956
-	615	ENSRNOT00000022956
-	615	ENSRNOT00000068378
-	584	ENSRNOT00000068378
-	164	ENSRNOT00000068191
-	164	ENSRNOT00000023153
+	123	ENSRNOT00000048843
-	16	ENSRNOT00000057944
-	16	ENSRNOT00000017257
-	16	ENSRNOT00000067589
+	94	ENSRNOT00000028277
+	424	ENSRNOT00000068701
+	424	ENSRNOT00000028225
-	338	ENSRNOT00000005881
-	138	ENSRNOT00000064280
-	138	ENSRNOT00000024564
-	597	ENSRNOT00000047200
-	15	ENSRNOT00000051086
-	166	ENSRNOT00000051086
-	192	ENSRNOT00000018447

+	10	ENSRNOT00000064695
+	418	ENSRNOT00000064695
-	12	ENSRNOT00000038551
-	412	ENSRNOT00000014458
-	596	ENSRNOT00000061402
-	596	ENSRNOT00000008989
+	8	ENSRNOT00000002650
+	440	ENSRNOT00000021537
+	440	ENSRNOT00000067152
+	168	ENSRNOT00000061063
+	348	ENSRNOT00000031400
-	165	ENSRNOT00000036713
-	165	ENSRNOT00000000629
-	325	ENSRNOT00000033667
-	325	ENSRNOT00000009198
-	328	ENSRNOT00000067359
-	81	ENSRNOT00000068327
-	328	ENSRNOT00000002542
-	377	ENSRNOT00000020265
-	229	ENSRNOT00000016176
-	172	ENSRNOT00000055012
-	144	ENSRNOT00000053457
+	189	ENSRNOT00000028277
-	21	ENSRNOT00000047200
-	37	ENSRNOT00000026962
+	476	ENSRNOT00000028094
-	64	ENSRNOT00000068327
-	91	ENSRNOT00000020265
+	8	ENSRNOT00000028277
-	24	ENSRNOT00000033222
-	24	ENSRNOT00000038125
-	24	ENSRNOT00000033222
-	224	ENSRNOT00000033222
-	224	ENSRNOT00000038125
-	24	ENSRNOT00000038125
+	210	ENSRNOT00000064856
+	210	ENSRNOT00000016428
-	269	ENSRNOT00000065691

-	269	ENSRNOT00000066757
-	269	ENSRNOT00000064688
-	269	ENSRNOT00000026073
+	34	ENSRNOT00000024733
+	862	ENSRNOT00000018259
-	51	ENSRNOT00000005584
-	66	ENSRNOT00000023405
-	130	ENSRNOT00000008425
+	239	ENSRNOT00000063930
-	18	ENSRNOT00000013745
-	112	ENSRNOT00000013745
+	16	ENSRNOT00000010316
-	166	ENSRNOT00000059807
-	166	ENSRNOT00000003230
+	322	ENSRNOT00000034522
+	322	ENSRNOT00000055574
+	322	ENSRNOT00000014713
-	191	ENSRNOT00000045074
-	191	ENSRNOT00000016645
+	335	ENSRNOT00000027552
+	44	ENSRNOT00000019993
+	44	ENSRNOT00000064045
+	208	ENSRNOT00000024967
-	71	ENSRNOT00000055351
-	219	ENSRNOT00000029697
-	71	ENSRNOT00000029697
-	219	ENSRNOT00000055351
-	219	ENSRNOT00000002447
-	219	ENSRNOT00000002446
-	219	ENSRNOT00000049974
+	673	ENSRNOT00000058659
+	673	ENSRNOT00000008885
-	845	ENSRNOT00000020916
-	845	ENSRNOT00000020883
-	24	ENSRNOT00000002486
+	238	ENSRNOT00000042088
+	286	ENSRNOT00000042088
-	16	ENSRNOT00000016153

-	16	ENSRNOT00000015894
+	499	ENSRNOT00000064010
+	641	ENSRNOT00000033405
-	840	ENSRNOT00000046539
-	203	ENSRNOT00000046539
-	127	ENSRNOT00000046539
+	141	ENSRNOT00000020690
+	202	ENSRNOT00000020690
+	141	ENSRNOT00000020690
+	12	ENSRNOT00000065824
+	12	ENSRNOT00000004119
+	12	ENSRNOT00000066243
+	12	ENSRNOT00000064999
+	12	ENSRNOT00000004187
+	12	ENSRNOT00000066344
+	1156	ENSRNOT00000052392
-	12	ENSRNOT00000039655
-	12	ENSRNOT00000042964
-	12	ENSRNOT00000013828
-	539	ENSRNOT00000044390
-	539	ENSRNOT00000026390
-	539	ENSRNOT00000026215
+	408	ENSRNOT00000065326
+	188	ENSRNOT00000048501
+	408	ENSRNOT00000048501
+	370	ENSRNOT00000065326
+	78	ENSRNOT00000046957
+	40	ENSRNOT00000046957
+	205	ENSRNOT00000046957
+	85	ENSRNOT00000046957
+	277	ENSRNOT00000019746
+	277	ENSRNOT00000054685
+	277	ENSRNOT00000054684
+	150	ENSRNOT00000015145
+	150	ENSRNOT00000015145
+	547	ENSRNOT00000010588
-	390	ENSRNOT00000036137
+	30	ENSRNOT00000042623

+	30	ENSRNOT00000057824
+	30	ENSRNOT00000046488
+	30	ENSRNOT00000050595
-	16	ENSRNOT00000015338
+	131	ENSRNOT00000054795
+	131	ENSRNOT00000066846
+	168	ENSRNOT00000003327
-	445	ENSRNOT00000066322
+	111	ENSRNOT00000031109
+	248	ENSRNOT00000068022
+	248	ENSRNOT00000064066
+	248	ENSRNOT00000049292
+	248	ENSRNOT00000066299
+	115	ENSRNOT00000037742
+	109	ENSRNOT00000010012
+	28	ENSRNOT00000051338
+	28	ENSRNOT00000023859
-	14	ENSRNOT00000035320
+	307	ENSRNOT00000017966
+	131	ENSRNOT00000017966
+	172	ENSRNOT00000017966
+	10	ENSRNOT00000020341
+	149	ENSRNOT00000040631
-	267	ENSRNOT00000016709
-	229	ENSRNOT00000016709
-	186	ENSRNOT00000011650
+	251	ENSRNOT00000013993
+	101	ENSRNOT00000001544
-	169	ENSRNOT00000038398
-	477	ENSRNOT00000001466
-	22	ENSRNOT00000054959
-	12	ENSRNOT00000034216
+	541	ENSRNOT00000023506
-	403	ENSRNOT00000062055
-	403	ENSRNOT00000062054
-	403	ENSRNOT00000014709
-	403	ENSRNOT00000062052
+	199	ENSRNOT00000001219

+	584	ENSRNOT00000049884
+	129	ENSRNOT00000020836
+	56	ENSRNOT00000067241
+	56	ENSRNOT00000066305
+	56	ENSRNOT00000028039
+	89	ENSRNOT00000010712
+	89	ENSRNOT00000010712
-	73	ENSRNOT00000020026
-	73	ENSRNOT00000040740
-	862	ENSRNOT00000031909
+	296	ENSRNOT00000008161
-	184	ENSRNOT00000060765
-	184	ENSRNOT00000008465
-	184	ENSRNOT00000065299
-	184	ENSRNOT00000060764
-	272	ENSRNOT00000025458
-	272	ENSRNOT00000067799
+	8	ENSRNOT00000067191
+	8	ENSRNOT00000068060
+	8	ENSRNOT00000014091
+	131	ENSRNOT00000040576
+	55	ENSRNOT00000040576
+	99	ENSRNOT00000026199
+	43	ENSRNOT00000026199
-	176	ENSRNOT00000035142
-	983	ENSRNOT00000001503
-	378	ENSRNOT00000017915
-	103	ENSRNOT00000038748
-	306	ENSRNOT00000017832
+	39	ENSRNOT00000026210
+	50	ENSRNOT00000026210
+	39	ENSRNOT00000026210
-	432	ENSRNOT00000001315
+	241	ENSRNOT00000001642
+	161	ENSRNOT00000010183
-	437	ENSRNOT00000006604
-	593	ENSRNOT00000044481
-	593	ENSRNOT00000042956

-	355	ENSRNOT00000018147
-	360	ENSRNOT00000011693
-	360	ENSRNOT00000049798
-	360	ENSRNOT00000064166
+	340	ENSRNOT00000064300
+	340	ENSRNOT00000001773
+	340	ENSRNOT00000001774
+	340	ENSRNOT00000041200
+	340	ENSRNOT00000001778
-	8	ENSRNOT00000026281
+	42	ENSRNOT00000012082
+	14	ENSRNOT00000038244
+	547	ENSRNOT00000040939
+	547	ENSRNOT00000027067
-	95	ENSRNOT00000041119
+	316	ENSRNOT00000058897
+	66	ENSRNOT00000015113
-	56	ENSRNOT00000007789
-	318	ENSRNOT00000017218
-	318	ENSRNOT00000048407
-	318	ENSRNOT00000067659
+	154	ENSRNOT00000059419
+	674	ENSRNOT00000059419
+	154	ENSRNOT00000059421
+	674	ENSRNOT00000059421
-	54	ENSRNOT00000024716
+	130	ENSRNOT00000014376
+	130	ENSRNOT00000014250
+	586	ENSRNOT00000047858
+	586	ENSRNOT00000044938
+	586	ENSRNOT00000046262
+	586	ENSRNOT00000018480
-	10	ENSRNOT00000054950
-	10	ENSRNOT00000067315
-	10	ENSRNOT00000033517
-	10	ENSRNOT00000033490
+	72	ENSRNOT00000055237
+	72	ENSRNOT00000055238

+	72	ENSRNOT00000055238
+	72	ENSRNOT00000055237
+	52	ENSRNOT00000056191
+	52	ENSRNOT00000066549
+	52	ENSRNOT00000015685
-	344	ENSRNOT00000068658
-	16	ENSRNOT00000005257
-	72	ENSRNOT00000044063
-	72	ENSRNOT00000058079
-	111	ENSRNOT00000019189
-	111	ENSRNOT00000019225
+	181	ENSRNOT00000028117
-	358	ENSRNOT00000029202
+	274	ENSRNOT00000061012
+	274	ENSRNOT00000061013
-	179	ENSRNOT00000021176
+	146	ENSRNOT00000024950
+	146	ENSRNOT00000066336
+	571	ENSRNOT00000037597
+	268	ENSRNOT00000020049
+	268	ENSRNOT00000019834
+	268	ENSRNOT00000046229
+	134	ENSRNOT00000051259
+	36	ENSRNOT00000051259
-	194	ENSRNOT00000068624
-	194	ENSRNOT00000068067
-	194	ENSRNOT00000065280
-	12	ENSRNOT00000039353
-	439	ENSRNOT00000021036
-	169	ENSRNOT00000002896
+	91	ENSRNOT00000066905
+	91	ENSRNOT00000006996
+	91	ENSRNOT00000056392
-	254	ENSRNOT00000018684
+	141	ENSRNOT00000057938
+	57	ENSRNOT00000057938
-	30	ENSRNOT00000023457
-	557	ENSRNOT00000058075

-	557	ENSRNOT00000032782
+	515	ENSRNOT00000015802
+	74	ENSRNOT00000044751
+	74	ENSRNOT00000000883
+	154	ENSRNOT00000040072
+	154	ENSRNOT00000064373
-	171	ENSRNOT00000034425
-	317	ENSRNOT00000022962
-	42	ENSRNOT00000021544
-	89	ENSRNOT00000056264
-	89	ENSRNOT00000056265
-	77	ENSRNOT00000056265
-	77	ENSRNOT00000056264
-	342	ENSRNOT00000010103
-	449	ENSRNOT00000042532
-	449	ENSRNOT00000061237
+	912	ENSRNOT00000015210
+	85	ENSRNOT00000036143
+	75	ENSRNOT00000036143
+	5	ENSRNOT00000036143
+	247	ENSRNOT00000005337
+	227	ENSRNOT00000020431
+	227	ENSRNOT00000058918
-	157	ENSRNOT00000019862
-	29	ENSRNOT00000019862
+	222	ENSRNOT00000067108
+	222	ENSRNOT00000007889
-	144	ENSRNOT00000026120
-	71	ENSRNOT00000055146
-	630	ENSRNOT00000055146
-	71	ENSRNOT00000025238
-	71	ENSRNOT00000025238
-	630	ENSRNOT00000025238
-	71	ENSRNOT00000055146
+	542	ENSRNOT00000036633
+	50	ENSRNOT00000036633
-	124	ENSRNOT00000055697
-	124	ENSRNOT00000057020

-	124	ENSRNOT00000058349
-	357	ENSRNOT00000002795
-	357	ENSRNOT00000060868
-	91	ENSRNOT00000007299
+	214	ENSRNOT00000015643
+	214	ENSRNOT00000064852
-	275	ENSRNOT00000038092
-	492	ENSRNOT00000044467
-	278	ENSRNOT00000040284
-	97	ENSRNOT00000038537
-	97	ENSRNOT00000040284
-	278	ENSRNOT00000038537
+	523	ENSRNOT00000066098
+	523	ENSRNOT00000013314
+	523	ENSRNOT00000067666
+	704	ENSRNOT00000001734
+	359	ENSRNOT00000001734
+	134	ENSRNOT00000065683
+	134	ENSRNOT00000001734
-	56	ENSRNOT00000001766
-	271	ENSRNOT00000001766
-	596	ENSRNOT00000001669
-	596	ENSRNOT00000001666
-	84	ENSRNOT00000016745
+	276	ENSRNOT00000016629
+	211	ENSRNOT00000016629
-	176	ENSRNOT00000064431
+	340	ENSRNOT00000022774
+	205	ENSRNOT00000022774
-	228	ENSRNOT00000049832
-	540	ENSRNOT00000057301
-	418	ENSRNOT00000057301
-	540	ENSRNOT00000049832
-	183	ENSRNOT00000057301
-	183	ENSRNOT00000049832
-	228	ENSRNOT00000057301
-	418	ENSRNOT00000049832
+	218	ENSRNOT00000028151

+	88	ENSRNOT00000017831
+	545	ENSRNOT00000013602
+	33	ENSRNOT00000013602
-	239	ENSRNOT00000033358
-	239	ENSRNOT00000046143
-	239	ENSRNOT00000043170
-	239	ENSRNOT00000023352
+	307	ENSRNOT00000045288
+	307	ENSRNOT00000017907
-	265	ENSRNOT00000066186
-	265	ENSRNOT00000061967
-	657	ENSRNOT00000013385
-	386	ENSRNOT00000068037
-	386	ENSRNOT00000011812
-	134	ENSRNOT00000044431
-	134	ENSRNOT00000018556
-	126	ENSRNOT00000063877
-	126	ENSRNOT00000065670
-	126	ENSRNOT00000037017
-	126	ENSRNOT00000066643
-	1771	ENSRNOT00000009904
-	18	ENSRNOT00000046032
-	18	ENSRNOT00000014202
+	13	ENSRNOT00000055627
+	13	ENSRNOT00000055624
+	13	ENSRNOT00000055626
+	13	ENSRNOT00000003777
+	13	ENSRNOT00000068702
+	13	ENSRNOT00000055623
+	13	ENSRNOT00000055625
+	487	ENSRNOT00000025899
+	487	ENSRNOT00000025905
+	487	ENSRNOT00000025894
-	359	ENSRNOT00000001733
-	573	ENSRNOT00000016167
-	285	ENSRNOT00000013232
-	285	ENSRNOT00000057098
-	285	ENSRNOT00000049657

-	125	ENSRNOT00000065143
-	125	ENSRNOT00000064881
+	459	ENSRNOT00000000824
-	184	ENSRNOT00000014772
-	157	ENSRNOT00000034519
-	72	ENSRNOT00000042253
-	72	ENSRNOT00000029001
-	205	ENSRNOT00000020749
-	200	ENSRNOT00000001485
+	121	ENSRNOT00000014271
-	199	ENSRNOT00000002916
-	12	ENSRNOT00000002916
-	77	ENSRNOT00000002916
-	135	ENSRNOT00000002916
-	14	ENSRNOT00000041566
-	14	ENSRNOT00000021268
-	191	ENSRNOT00000052035
-	14	ENSRNOT00000028222
-	402	ENSRNOT00000034151
-	503	ENSRNOT00000034151
-	503	ENSRNOT00000060186
-	402	ENSRNOT00000060186
-	392	ENSRNOT00000035400
+	705	ENSRNOT00000055511
+	705	ENSRNOT00000055512
+	705	ENSRNOT00000024443
-	250	ENSRNOT00000042418
+	314	ENSRNOT00000057473
+	314	ENSRNOT00000060222
+	408	ENSRNOT00000050449
+	408	ENSRNOT00000043875
+	408	ENSRNOT00000051121
+	408	ENSRNOT00000039382
+	408	ENSRNOT00000045335
+	112	ENSRNOT00000000737
+	16	ENSRNOT00000022764
+	16	ENSRNOT00000067318
+	415	ENSRNOT00000042575

+	415	ENSRNOT00000060641
+	415	ENSRNOT00000010219
+	514	ENSRNOT00000011237
+	8	ENSRNOT00000035338
-	273	ENSRNOT00000021954
+	10	ENSRNOT00000038688
+	10	ENSRNOT00000040778
-	44	ENSRNOT00000065043
-	44	ENSRNOT00000021637
+	138	ENSRNOT00000006986
+	641	ENSRNOT00000056469
+	641	ENSRNOT00000009222
-	236	ENSRNOT00000043660
+	250	ENSRNOT00000025000
+	250	ENSRNOT00000025090
+	657	ENSRNOT00000013535
-	561	ENSRNOT00000065888
-	561	ENSRNOT00000031274
-	561	ENSRNOT00000031266
-	561	ENSRNOT00000066696
-	561	ENSRNOT00000031252
+	334	ENSRNOT00000016797
+	334	ENSRNOT00000059146
+	334	ENSRNOT00000060206
+	154	ENSRNOT00000051422
+	154	ENSRNOT00000028265
+	212	ENSRNOT00000023017
+	574	ENSRNOT00000023017
-	395	ENSRNOT00000064705
-	131	ENSRNOT00000067426
-	131	ENSRNOT00000016659
-	395	ENSRNOT00000067426
-	131	ENSRNOT00000064705
-	131	ENSRNOT00000066811
-	131	ENSRNOT00000064896
-	131	ENSRNOT00000067426
-	395	ENSRNOT00000064896
-	395	ENSRNOT00000066811

-	395	ENSRNOT00000016659
-	395	ENSRNOT00000045519
-	131	ENSRNOT00000045519
-	48	ENSRNOT00000065473
-	48	ENSRNOT00000017968
-	450	ENSRNOT00000022820
+	222	ENSRNOT00000066832
+	222	ENSRNOT00000037246
+	66	ENSRNOT00000063893
+	66	ENSRNOT00000013809
+	150	ENSRNOT00000044049
+	150	ENSRNOT00000044049
-	72	ENSRNOT00000056366
-	72	ENSRNOT00000015938
-	244	ENSRNOT00000002330
-	244	ENSRNOT00000002330
-	393	ENSRNOT00000002330
-	22	ENSRNOT00000054970
-	12	ENSRNOT00000003694
-	12	ENSRNOT00000067921
-	12	ENSRNOT00000032105
-	12	ENSRNOT00000068563
-	10	ENSRNOT00000039049
+	10	ENSRNOT00000019923
-	188	ENSRNOT00000010017
-	188	ENSRNOT00000010827
-	379	ENSRNOT00000024030
+	402	ENSRNOT00000017374
+	240	ENSRNOT00000001248
-	256	ENSRNOT00000061821
-	256	ENSRNOT00000001384
+	525	ENSRNOT00000043784
+	399	ENSRNOT00000067742
+	399	ENSRNOT00000054933
+	35	ENSRNOT00000067742
+	35	ENSRNOT00000054933
-	10	ENSRNOT00000025013
-	10	ENSRNOT00000024981

-	264	ENSRNOT00000051360
+	324	ENSRNOT00000025711
-	197	ENSRNOT00000011085
+	382	ENSRNOT00000000733
+	382	ENSRNOT00000000732
-	34	ENSRNOT00000032290
-	66	ENSRNOT00000067135
-	66	ENSRNOT00000003196
+	356	ENSRNOT00000039377
-	8	ENSRNOT00000043666
+	286	ENSRNOT00000068829
+	12	ENSRNOT00000024334
+	12	ENSRNOT00000067508
+	131	ENSRNOT00000012111
+	14	ENSRNOT00000012111
-	147	ENSRNOT00000063902
-	147	ENSRNOT00000004097
-	147	ENSRNOT00000065286
-	149	ENSRNOT00000046523
-	149	ENSRNOT00000037539
-	149	ENSRNOT00000029196
-	149	ENSRNOT00000067594
-	171	ENSRNOT00000048712
-	26	ENSRNOT00000048712
-	171	ENSRNOT00000025461
-	171	ENSRNOT00000042145
-	26	ENSRNOT00000042145
-	26	ENSRNOT00000025461
-	26	ENSRNOT00000066498
-	14	ENSRNOT00000031172
-	83	ENSRNOT00000044012
-	83	ENSRNOT00000013355
-	83	ENSRNOT00000013621
-	36	ENSRNOT00000065515
-	36	ENSRNOT00000008301
-	36	ENSRNOT00000050355
-	36	ENSRNOT00000064338
-	36	ENSRNOT00000045862

-	117	ENSRNOT00000064338
-	139	ENSRNOT00000045862
-	117	ENSRNOT00000050355
-	117	ENSRNOT00000008301
-	139	ENSRNOT00000008301
-	139	ENSRNOT00000064338
-	139	ENSRNOT00000050355
-	139	ENSRNOT00000065515
-	117	ENSRNOT00000045862
-	117	ENSRNOT00000065515
-	563	ENSRNOT00000055194
-	58	ENSRNOT00000022356
-	58	ENSRNOT00000068174
-	58	ENSRNOT00000067899
-	403	ENSRNOT00000012640
-	41	ENSRNOT00000012640
-	560	ENSRNOT00000049699
-	560	ENSRNOT00000040559
-	560	ENSRNOT00000044778
-	188	ENSRNOT00000017967
+	544	ENSRNOT00000049486
+	544	ENSRNOT00000021758
+	169	ENSRNOT00000056430
+	544	ENSRNOT00000056430
+	169	ENSRNOT00000021758
+	169	ENSRNOT00000049486
-	296	ENSRNOT00000026540
-	296	ENSRNOT00000046708
-	142	ENSRNOT00000046708
-	142	ENSRNOT00000026540
+	10	ENSRNOT00000011822
+	10	ENSRNOT00000057407
+	10	ENSRNOT00000011717
+	56	ENSRNOT00000019157
-	219	ENSRNOT00000024932
-	219	ENSRNOT00000045629
-	132	ENSRNOT00000024932
-	132	ENSRNOT00000045629

-	536	ENSRNOT00000031925
-	164	ENSRNOT00000052121
-	164	ENSRNOT00000019465
+	226	ENSRNOT00000019231
+	226	ENSRNOT00000067616
-	72	ENSRNOT00000055523
-	218	ENSRNOT00000021193
-	218	ENSRNOT00000055523
-	72	ENSRNOT00000021193
+	298	ENSRNOT00000010002
+	298	ENSRNOT00000066151
+	298	ENSRNOT00000010308
+	269	ENSRNOT00000011565
+	159	ENSRNOT00000064366
+	159	ENSRNOT00000065397
+	159	ENSRNOT00000019673
-	148	ENSRNOT00000002460
-	148	ENSRNOT00000032767
-	148	ENSRNOT00000040645
-	148	ENSRNOT00000064443
-	64	ENSRNOT00000056779
-	61	ENSRNOT00000056779
-	18	ENSRNOT00000056779
-	166	ENSRNOT00000005306
-	4	ENSRNOT00000056779
-	19	ENSRNOT00000056779
-	28	ENSRNOT00000057950
+	82	ENSRNOT00000001507
+	101	ENSRNOT00000001559
+	326	ENSRNOT00000001559
+	90	ENSRNOT00000045375
-	272	ENSRNOT00000002206
-	28	ENSRNOT00000002262
-	28	ENSRNOT00000066940
-	12	ENSRNOT00000005067
+	208	ENSRNOT00000065321
+	208	ENSRNOT00000006264
-	224	ENSRNOT00000006716

-	224	ENSRNOT00000066904
-	774	ENSRNOT00000058962
-	336	ENSRNOT00000064182
-	774	ENSRNOT00000065151
-	774	ENSRNOT00000064182
-	336	ENSRNOT00000065151
-	336	ENSRNOT00000058962
+	249	ENSRNOT00000006652
+	27	ENSRNOT00000006652
+	249	ENSRNOT00000006652
-	106	ENSRNOT00000007233
-	186	ENSRNOT00000008414
+	183	ENSRNOT00000049597
+	183	ENSRNOT00000040097
+	2	ENSRNOT00000009102
+	344	ENSRNOT00000009102
-	135	ENSRNOT00000009514
-	135	ENSRNOT00000009542
-	135	ENSRNOT00000066187
-	10	ENSRNOT00000009656
+	74	ENSRNOT00000046801
+	227	ENSRNOT00000009987
-	34	ENSRNOT00000010427
-	203	ENSRNOT00000011061
+	28	ENSRNOT00000012169
+	28	ENSRNOT00000012153
+	28	ENSRNOT00000066645
+	28	ENSRNOT00000061228
+	115	ENSRNOT00000060556
-	8	ENSRNOT00000011697
+	156	ENSRNOT00000013152
-	222	ENSRNOT00000059892
-	222	ENSRNOT00000014977
+	271	ENSRNOT00000015271
+	601	ENSRNOT00000015271
-	587	ENSRNOT00000064769
-	587	ENSRNOT00000016070
-	587	ENSRNOT00000064689

-	587	ENSRNOT00000015988
+	255	ENSRNOT00000016252
+	255	ENSRNOT00000051737
-	14	ENSRNOT00000016558
-	99	ENSRNOT00000017103
-	226	ENSRNOT00000017103
-	119	ENSRNOT00000055113
-	119	ENSRNOT00000017414
-	119	ENSRNOT00000055111
-	119	ENSRNOT00000055112
-	119	ENSRNOT00000064976
-	618	ENSRNOT00000066692
-	618	ENSRNOT00000018094
-	618	ENSRNOT00000067721
-	618	ENSRNOT00000029628
-	618	ENSRNOT00000067293
-	618	ENSRNOT00000029640
-	618	ENSRNOT00000040781
-	303	ENSRNOT00000041125
+	332	ENSRNOT00000020513
+	332	ENSRNOT00000052015
-	48	ENSRNOT00000020332
-	173	ENSRNOT00000021961
-	166	ENSRNOT00000065207
-	166	ENSRNOT00000022289
-	166	ENSRNOT00000022253
-	166	ENSRNOT00000022331
-	166	ENSRNOT00000068183
-	166	ENSRNOT00000065448
-	227	ENSRNOT00000022076
-	106	ENSRNOT00000064714
-	106	ENSRNOT00000022742
-	106	ENSRNOT00000067202
-	195	ENSRNOT00000045535
-	186	ENSRNOT00000022481
-	186	ENSRNOT00000064845
-	195	ENSRNOT00000022481
-	186	ENSRNOT00000045535

-	195	ENSRNOT00000064845
-	22	ENSRNOT00000022481
-	22	ENSRNOT00000045535
-	403	ENSRNOT00000048394
-	22	ENSRNOT00000064845
-	240	ENSRNOT00000066320
-	240	ENSRNOT00000065005
+	681	ENSRNOT00000022744
-	118	ENSRNOT00000023869
-	28	ENSRNOT00000023869
-	260	ENSRNOT00000025106
-	260	ENSRNOT00000066120
-	260	ENSRNOT00000055498
-	352	ENSRNOT00000025377
-	212	ENSRNOT00000025488
+	334	ENSRNOT00000026607
+	60	ENSRNOT00000027337
+	60	ENSRNOT00000063959
+	60	ENSRNOT00000027304
+	461	ENSRNOT00000027875
+	461	ENSRNOT00000027871
-	245	ENSRNOT00000028745
+	363	ENSRNOT00000037606
-	12	ENSRNOT00000050812
-	39	ENSRNOT00000050812
-	10	ENSRNOT00000030847
-	182	ENSRNOT00000039555
+	326	ENSRNOT00000035049
-	58	ENSRNOT00000060968
-	176	ENSRNOT00000030543
-	290	ENSRNOT00000068003
-	56	ENSRNOT00000030543
-	58	ENSRNOT00000030543
-	56	ENSRNOT00000060968
-	176	ENSRNOT00000060968
+	14	ENSRNOT00000041301
+	33	ENSRNOT00000032116
+	123	ENSRNOT00000032116

-	374	ENSRNOT00000037527
-	200	ENSRNOT00000033090
+	33	ENSRNOT00000035916
+	84	ENSRNOT00000035916
+	250	ENSRNOT00000035916
+	33	ENSRNOT00000035916
+	194	ENSRNOT00000033352
-	73	ENSRNOT00000030341
+	240	ENSRNOT00000032733
-	44	ENSRNOT00000046190
+	10	ENSRNOT00000051275
+	358	ENSRNOT00000048023
+	298	ENSRNOT00000048023
-	229	ENSRNOT00000047198
-	12	ENSRNOT00000047321
-	12	ENSRNOT00000045773
-	61	ENSRNOT00000063800
-	61	ENSRNOT00000051739
+	348	ENSRNOT00000051363
+	279	ENSRNOT00000047563
+	257	ENSRNOT00000056411
+	10	ENSRNOT00000041804
-	13	ENSRNOT00000041400
-	12	ENSRNOT00000041400
-	132	ENSRNOT00000041400
-	559	ENSRNOT00000041400
-	168	ENSRNOT00000041400
+	125	ENSRNOT00000044742
+	60	ENSRNOT00000041562
+	605	ENSRNOT00000041562
+	120	ENSRNOT00000041562
+	86	ENSRNOT00000041562
+	183	ENSRNOT00000041562
-	119	ENSRNOT00000041621
-	67	ENSRNOT00000044101
-	4	ENSRNOT00000044101
-	83	ENSRNOT00000044101
-	25	ENSRNOT00000044101

-	76	ENSRNOT00000044101
-	37	ENSRNOT00000044101
-	136	ENSRNOT00000045096
-	329	ENSRNOT00000052466
+	100	ENSRNOT00000053436
+	37	ENSRNOT00000053436
+	37	ENSRNOT00000053436
+	186	ENSRNOT00000054626
-	273	ENSRNOT00000055537
+	108	ENSRNOT00000030805
+	52	ENSRNOT00000056189
-	588	ENSRNOT00000048323
-	2528	ENSRNOT00000039881
-	2528	ENSRNOT00000048323
-	588	ENSRNOT00000039881
-	2	ENSRNOT00000056545
-	21	ENSRNOT00000056545
-	35	ENSRNOT00000056545
-	65	ENSRNOT00000058362
-	65	ENSRNOT00000058362
+	164	ENSRNOT00000044620
-	27	ENSRNOT00000059896
-	325	ENSRNOT00000047460
+	253	ENSRNOT00000060766
+	171	ENSRNOT00000061184
-	345	ENSRNOT00000061847
-	2092	ENSRNOT00000062085
+	138	ENSRNOT00000062668
+	352	ENSRNOT00000063224
+	248	ENSRNOT00000063309
+	155	ENSRNOT00000063363
-	2528	ENSRNOT00000068767
-	588	ENSRNOT00000068767
-	438	ENSRNOT00000036574
-	438	ENSRNOT00000068611
-	438	ENSRNOT00000066225
-	184	ENSRNOT00000068511
+	99	ENSRNOT00000065039

+	226	ENSRNOT00000065039
+	211	ENSRNOT00000064004
+	98	ENSRNOT00000070178
-	52	ENSRNOT00000070402

ries (Rat Genome RN4)

Overlapping gene

<i>Overlapping Gene ID</i>	<i>Gene symbol (RN4)</i>	<i>Gene description (RN4)</i>
ENSRNOG00000003276	<i>Myo1d</i>	Myosin-IId
ENSRNOG00000028149	<i>LOC367289</i>	Uncharacterized protein
ENSRNOG00000000522	<i>Cpne5</i>	copine-5
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000015078	<i>Ifitm3</i>	Interferon-induced transmembra
ENSRNOG00000026857	<i>Kif7</i>	Uncharacterized protein
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000015089	<i>Mcoln2</i>	mucolipin-2
ENSRNOG00000040109	<i>Trem1</i>	trem-like transcript 1 protein
ENSRNOG00000019902	<i>Folr1</i>	folate receptor alpha
ENSRNOG00000020837	<i>D4A4H1_RAT</i>	Uncharacterized protein
ENSRNOG00000020702	<i>Cybasc3</i>	Cytochrome b ascorbate-depende
ENSRNOG00000033110	<i>Svep1</i>	Sushi
ENSRNOG00000033110	<i>Svep1</i>	Sushi
ENSRNOG00000013552	<i>Scd1</i>	Acyl-CoA desaturase 1
ENSRNOG00000013190	<i>Rnaset2</i>	ribonuclease T2
ENSRNOG00000005515	<i>Rhbdl3</i>	rhomboid-related protein 3
ENSRNOG00000003276	<i>Myo1d</i>	Myosin-IId
ENSRNOG00000015024	<i>E9PT54_RAT</i>	mucolipin-3
ENSRNOG00000015024	<i>E9PT54_RAT</i>	mucolipin-3
ENSRNOG00000013615	<i>Dntt</i>	DNA nucleotidylexotransferase
ENSRNOG00000013615	<i>Dntt</i>	DNA nucleotidylexotransferase
ENSRNOG00000012886	<i>Maff</i>	transcription factor MafF
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000005124	<i>Plekhh2</i>	pleckstrin homology domain-cont
ENSRNOG00000005291	<i>Slc38a1</i>	Sodium-coupled neutral amino ac
ENSRNOG00000005291	<i>Slc38a1</i>	Sodium-coupled neutral amino ac
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000019451	<i>Smtn</i>	smoothelin
ENSRNOG00000037621	<i>RGD1309870</i>	--

ENSRNOG00000014104	<i>Myo5b</i>	Myosin-Vb
ENSRNOG00000014104	<i>Myo5b</i>	Myosin-Vb
ENSRNOG00000014104	<i>Myo5b</i>	Myosin-Vb
ENSRNOG00000012531	<i>Ephb2</i>	ephrin type-B receptor 2
ENSRNOG00000012531	<i>Ephb2</i>	ephrin type-B receptor 2
ENSRNOG00000012531	<i>Ephb2</i>	ephrin type-B receptor 2
ENSRNOG00000010378	<i>Slc4a5</i>	Electrogenic sodium bicarbonate
ENSRNOG00000010378	<i>Slc4a5</i>	Electrogenic sodium bicarbonate
ENSRNOG00000021840	<i>LOC500046</i>	Uncharacterized protein
ENSRNOG00000021840	<i>LOC500046</i>	Uncharacterized protein
ENSRNOG00000021840	<i>LOC500046</i>	Uncharacterized protein
ENSRNOG00000008990	<i>F1LZQ6_RAT</i>	Angiotensin-like 1 (Predicted)Unc
ENSRNOG00000008990	<i>F1LZQ6_RAT</i>	Angiotensin-like 1 (Predicted)Unc
ENSRNOG00000015089	<i>Mcoln2</i>	mucolin-2
ENSRNOG00000040109	<i>Trem1</i>	trem-like transcript 1 protein
ENSRNOG00000020624	<i>Acadsb</i>	Short/branched chain specific acy
ENSRNOG00000006963	<i>Ctse</i>	Cathepsin E
ENSRNOG00000006963	<i>Ctse</i>	Cathepsin E
ENSRNOG00000017087	<i>Man1c1</i>	mannosyl-oligosaccharide 1
ENSRNOG00000017087	<i>Man1c1</i>	mannosyl-oligosaccharide 1
ENSRNOG00000017087	<i>Man1c1</i>	mannosyl-oligosaccharide 1
ENSRNOG00000017087	<i>Man1c1</i>	mannosyl-oligosaccharide 1
ENSRNOG00000017202	<i>Gcom1</i>	GRINL1A complex locus protein 1
ENSRNOG00000017202	<i>Gcom1</i>	GRINL1A complex locus protein 1
ENSRNOG00000014969	<i>Lzts2</i>	Leucine zipper putative tumor sup
ENSRNOG00000028149	<i>LOC367289</i>	Uncharacterized protein
ENSRNOG00000028149	<i>LOC367289</i>	Uncharacterized protein
ENSRNOG00000028149	<i>LOC367289</i>	Uncharacterized protein
ENSRNOG00000020837	<i>D4A4H1_RAT</i>	Uncharacterized protein
ENSRNOG00000020797	<i>D3ZSK0_RAT</i>	Uncharacterized protein
ENSRNOG00000020797	<i>D3ZSK0_RAT</i>	Uncharacterized protein
ENSRNOG00000004458	<i>Ston2</i>	stonin-2
ENSRNOG00000018126	<i>F1LNL3_RAT</i>	ATP-binding cassette sub-family A
ENSRNOG00000018126	<i>F1LNL3_RAT</i>	ATP-binding cassette sub-family A
ENSRNOG00000033110	<i>Svep1</i>	Sushi
ENSRNOG00000013552	<i>Scd1</i>	Acyl-CoA desaturase 1
ENSRNOG00000013552	<i>Scd1</i>	Acyl-CoA desaturase 1
ENSRNOG00000013552	<i>Scd1</i>	Acyl-CoA desaturase 1

ENSRNOG00000010131	<i>Rin2</i>	ras and Rab interactor 2
ENSRNOG00000010131	<i>Rin2</i>	ras and Rab interactor 2
ENSRNOG00000027841	<i>D3ZGN7_RAT</i>	Uncharacterized protein
ENSRNOG00000010873	<i>RGD1308048</i>	Uncharacterized protein
ENSRNOG00000006649	<i>Thrb</i>	Thyroid hormone receptor beta
ENSRNOG00000006649	<i>Thrb</i>	Thyroid hormone receptor beta
ENSRNOG00000001931	<i>Fgf12</i>	Fibroblast growth factor 12
ENSRNOG00000016038	<i>Mgmt</i>	Methylated-DNA--protein-cystein
ENSRNOG00000016038	<i>Mgmt</i>	Methylated-DNA--protein-cystein
ENSRNOG00000019656	<i>Btd</i>	Biotinidase
ENSRNOG00000028344	<i>Mmp11</i>	Stromelysin-3
ENSRNOG00000000522	<i>Cpne5</i>	copine-5
ENSRNOG00000000522	<i>Cpne5</i>	copine-5
ENSRNOG00000006720	<i>Rnpep</i>	Aminopeptidase B
ENSRNOG00000006720	<i>Rnpep</i>	Aminopeptidase B
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000015078	<i>Ifitm3</i>	Interferon-induced transmembra
ENSRNOG00000011970	<i>Tmem82</i>	Putative uncharacterized protein
ENSRNOG00000017804	<i>Sept1</i>	Septin-1
ENSRNOG00000035334	<i>U1</i>	U1 spliceosomal RNA
ENSRNOG00000020837	<i>D4A4H1_RAT</i>	Uncharacterized protein
ENSRNOG00000033110	<i>Svep1</i>	Sushi
ENSRNOG00000019902	<i>Folr1</i>	folate receptor alpha
ENSRNOG00000020702	<i>Cybas3</i>	Cytochrome b ascorbate-depende
ENSRNOG00000001861	<i>YdjC</i>	YdjC homolog
ENSRNOG00000015078	<i>Ifitm3</i>	Interferon-induced transmembra
ENSRNOG00000020837	<i>D4A4H1_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000022790	<i>F1M8C9_RAT</i>	Uncharacterized protein
ENSRNOG00000011852	<i>Myo6</i>	Uncharacterized protein
ENSRNOG00000011852	<i>Myo6</i>	Uncharacterized protein
ENSRNOG00000019271	<i>Ulk4</i>	Uncharacterized protein

ENSRNOG00000019271	<i>Ulk4</i>	Uncharacterized protein
ENSRNOG00000019271	<i>Ulk4</i>	Uncharacterized protein
ENSRNOG00000019271	<i>Ulk4</i>	Uncharacterized protein
ENSRNOG00000018185	<i>Sag</i>	S-arrestin
ENSRNOG00000013521	<i>Dhfr</i>	Dihydrofolate reductase
ENSRNOG00000004200	<i>Golsyn</i>	Uncharacterized protein
ENSRNOG00000017342	<i>Zdhhc7</i>	Palmitoyltransferase ZDHHC7
ENSRNOG00000006783	<i>F1M1J1_RAT</i>	Nebulin (Predicted)Uncharacteriz
ENSRNOG00000016413	<i>Pstpip1</i>	proline-serine-threonine phosphatase
ENSRNOG00000010208	<i>Timp1</i>	Metalloproteinase inhibitor 1
ENSRNOG00000010208	<i>Timp1</i>	Metalloproteinase inhibitor 1
ENSRNOG00000007713	<i>Tmcc3</i>	transmembrane and coiled-coil domain protein
ENSRNOG00000028236	<i>RGD1309104</i>	Uncharacterized protein
ENSRNOG00000028236	<i>RGD1309104</i>	Uncharacterized protein
ENSRNOG00000011028	<i>D3ZV66_RAT</i>	Uncharacterized protein
ENSRNOG00000011028	<i>D3ZV66_RAT</i>	Uncharacterized protein
ENSRNOG00000011028	<i>D3ZV66_RAT</i>	Uncharacterized protein
ENSRNOG00000012110	<i>Col17a1</i>	collagen alpha-1(XVII) chain
ENSRNOG00000012110	<i>Col17a1</i>	collagen alpha-1(XVII) chain
ENSRNOG00000020284	<i>Prkar2a</i>	cAMP-dependent protein kinase 1
ENSRNOG00000014526	<i>D4A5Z3_RAT</i>	Uncharacterized protein
ENSRNOG00000014526	<i>D4A5Z3_RAT</i>	Uncharacterized protein
ENSRNOG00000018321	<i>Syt13</i>	synaptotagmin-like protein 3
ENSRNOG00000025994	<i>Krt80</i>	Keratin
ENSRNOG00000025994	<i>Krt80</i>	Keratin
ENSRNOG00000025994	<i>Krt80</i>	Keratin
ENSRNOG00000025994	<i>Krt80</i>	Keratin
ENSRNOG00000001795	<i>D4AC54_RAT</i>	integrin
ENSRNOG00000001795	<i>D4AC54_RAT</i>	integrin
ENSRNOG00000001795	<i>D4AC54_RAT</i>	integrin
ENSRNOG00000006646	<i>Ecop</i>	EGFR-coamplified and overexpressed protein
ENSRNOG00000006646	<i>Ecop</i>	EGFR-coamplified and overexpressed protein
ENSRNOG00000014747	<i>F1LX73_RAT</i>	Uncharacterized protein
ENSRNOG00000014747	<i>F1LX73_RAT</i>	Uncharacterized protein
ENSRNOG00000001817	<i>Tm7sf3</i>	Transmembrane 7 superfamily member
ENSRNOG00000034303	<i>Spon1</i>	Spondin-1
ENSRNOG00000034303	<i>Spon1</i>	Spondin-1
ENSRNOG00000011847	<i>Grk4</i>	G protein-coupled receptor kinase

ENSRNOG00000011847	<i>Grk4</i>	G protein-coupled receptor kinase
ENSRNOG00000016516	<i>MBP_RAT</i>	Myelin basic protein S
ENSRNOG00000016516	<i>MBP_RAT</i>	Myelin basic protein S
ENSRNOG00000010753	<i>Aig1</i>	androgen-induced gene 1 protein
ENSRNOG00000010753	<i>Aig1</i>	androgen-induced gene 1 protein
ENSRNOG00000010753	<i>Aig1</i>	androgen-induced gene 1 protein
ENSRNOG00000015367	<i>D3ZYR3_RAT</i>	Uncharacterized protein
ENSRNOG00000015367	<i>D3ZYR3_RAT</i>	Uncharacterized protein
ENSRNOG00000015367	<i>D3ZYR3_RAT</i>	Uncharacterized protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000003054	<i>Cask</i>	Peripheral plasma membrane protein
ENSRNOG00000018778	<i>Cadm1</i>	cell adhesion molecule 1
ENSRNOG00000010011	<i>Osbpl3</i>	Oxysterol-binding protein
ENSRNOG00000010011	<i>Osbpl3</i>	Oxysterol-binding protein
ENSRNOG00000010011	<i>Osbpl3</i>	Oxysterol-binding protein
ENSRNOG00000019351	<i>Chid1</i>	Chitinase domain-containing protein
ENSRNOG00000019351	<i>Chid1</i>	Chitinase domain-containing protein
ENSRNOG00000019351	<i>Chid1</i>	Chitinase domain-containing protein
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000033627	<i>Panx2</i>	Pannexin-2
ENSRNOG00000014705	<i>Rbm20</i>	probable RNA-binding protein 20
ENSRNOG00000014705	<i>Rbm20</i>	probable RNA-binding protein 20
ENSRNOG00000014705	<i>Rbm20</i>	probable RNA-binding protein 20
ENSRNOG00000011386	<i>RGD1308124</i>	Uncharacterized protein
ENSRNOG00000011386	<i>RGD1308124</i>	Uncharacterized protein
ENSRNOG00000007660	<i>Fntb</i>	Protein farnesyltransferase subunit
ENSRNOG00000021440	<i>Pptc7</i>	protein phosphatase PTC7 homolog
ENSRNOG00000032437	<i>Pard3</i>	Partitioning defective 3 homolog

ENSRNOG00000032437	<i>Pard3</i>	Partitioning defective 3 homolog
ENSRNOG00000032437	<i>Pard3</i>	Partitioning defective 3 homolog
ENSRNOG00000032437	<i>Pard3</i>	Partitioning defective 3 homolog
ENSRNOG00000011503	<i>RGD1565350</i>	Uncharacterized protein
ENSRNOG00000042788	<i>F1M260_RAT</i>	Uncharacterized protein
ENSRNOG00000042788	<i>F1M260_RAT</i>	Uncharacterized protein
ENSRNOG00000002408	<i>Rbm47</i>	RNA-binding protein 47
ENSRNOG00000042740	<i>Mrpl42</i>	28S ribosomal protein L42
ENSRNOG00000023991	<i>Rab20</i>	ras-related protein Rab-20
ENSRNOG00000001706	<i>Kalrn</i>	Kalirin
ENSRNOG00000001706	<i>Kalrn</i>	Kalirin
ENSRNOG00000001706	<i>Kalrn</i>	Kalirin
ENSRNOG00000001706	<i>Kalrn</i>	Kalirin
ENSRNOG00000023589	<i>Gpr107</i>	protein GPR107
ENSRNOG00000007533	<i>Rab27a</i>	Ras-related protein Rab-27A
ENSRNOG00000017020	<i>Inpp5d</i>	Phosphatidylinositol-3
ENSRNOG00000017020	<i>Inpp5d</i>	Phosphatidylinositol-3
ENSRNOG00000026316	<i>Wdr43</i>	WD repeat domain 43
ENSRNOG00000013248	<i>Wwc2</i>	protein WWC2
ENSRNOG00000013248	<i>Wwc2</i>	protein WWC2
ENSRNOG00000013248	<i>Wwc2</i>	protein WWC2
ENSRNOG00000015084	<i>Necab2</i>	N-terminal EF-hand calcium-binding
ENSRNOG00000032941	<i>Mab21l1</i>	protein mab-21-like 1
ENSRNOG00000012325	<i>Adk</i>	Adenosine kinase
ENSRNOG00000012325	<i>Adk</i>	Adenosine kinase
ENSRNOG00000008758	<i>Tspan18</i>	tetraspanin-18
ENSRNOG00000010487	<i>Dnajb14</i>	dnaJ homolog subfamily B member
ENSRNOG00000001169	<i>Slc37a1</i>	glycerol-3-phosphate transporter
ENSRNOG00000027097	<i>F1M683_RAT</i>	Uncharacterized protein
ENSRNOG00000001104	<i>Foxk1</i>	forkhead box K1
ENSRNOG00000036690	<i>Dysfip1</i>	dysferlin-interacting protein 1
ENSRNOG00000024620	<i>F1M9P7_RAT</i>	Uncharacterized protein
ENSRNOG00000017120	<i>Abhd2</i>	abhydrolase domain-containing p
ENSRNOG00000010286	<i>Cast</i>	Calpastatin
ENSRNOG00000010286	<i>Cast</i>	Calpastatin
ENSRNOG00000010286	<i>Cast</i>	Calpastatin
ENSRNOG00000010286	<i>Cast</i>	Calpastatin
ENSRNOG00000000916	<i>Katnal1</i>	Katanin p60 ATPase-containing su

ENSRNOG00000031168	<i>Arhgap15</i>	Rho GTPase-activating protein 15
ENSRNOG00000015054	<i>Rcbtb2</i>	RCC1 and BTB domain-containing
ENSRNOG00000020656	<i>Pfkfb4</i>	6-phosphofructo-2-kinase/fructos
ENSRNOG00000020656	<i>Pfkfb4</i>	6-phosphofructo-2-kinase/fructos
ENSRNOG00000020656	<i>Pfkfb4</i>	6-phosphofructo-2-kinase/fructos
ENSRNOG00000008015	<i>Fos</i>	Proto-oncogene c-Fos
ENSRNOG00000008015	<i>Fos</i>	Proto-oncogene c-Fos
ENSRNOG00000014903	<i>Zfyve27</i>	zinc finger FYVE domain-containir
ENSRNOG00000014903	<i>Zfyve27</i>	zinc finger FYVE domain-containir
ENSRNOG00000024136	<i>Fam151b</i>	family with sequence similarity 15
ENSRNOG00000006079	<i>Psd4</i>	PH and SEC7 domain-containing p
ENSRNOG00000006384	<i>Ddx58</i>	DEAD (Asp-Glu-Ala-Asp) box poly
ENSRNOG00000006384	<i>Ddx58</i>	DEAD (Asp-Glu-Ala-Asp) box poly
ENSRNOG00000006384	<i>Ddx58</i>	DEAD (Asp-Glu-Ala-Asp) box poly
ENSRNOG00000006384	<i>Ddx58</i>	DEAD (Asp-Glu-Ala-Asp) box poly
ENSRNOG00000018760	<i>Mpp7</i>	MAGUK p55 subfamily member 7
ENSRNOG00000018760	<i>Mpp7</i>	MAGUK p55 subfamily member 7
ENSRNOG00000010512	<i>Yipf1</i>	Protein YIPF1
ENSRNOG00000010512	<i>Yipf1</i>	Protein YIPF1
ENSRNOG00000010512	<i>Yipf1</i>	Protein YIPF1
ENSRNOG00000006231	<i>Ptpro</i>	receptor-type tyrosine-protein pr
ENSRNOG00000006231	<i>Ptpro</i>	receptor-type tyrosine-protein pr
ENSRNOG00000019213	<i>Gpd1</i>	Glycerol-3-phosphate dehydroge
ENSRNOG00000019213	<i>Gpd1</i>	Glycerol-3-phosphate dehydroge
ENSRNOG00000028460	<i>Lrrc8e</i>	Leucine-rich repeat-containing pr
ENSRNOG00000001138	<i>Taok3</i>	Serine/threonine-protein kinase 1
ENSRNOG00000013340	<i>Twsg1</i>	twisted gastrulation homolog 1
ENSRNOG00000026061	<i>RGD1566226</i>	Putative uncharacterized protein
ENSRNOG00000013252	<i>Sdccag10</i>	Peptidyl-prolyl cis-trans isomer
ENSRNOG00000019228	<i>Pik3r2</i>	Phosphatidylinositol 3-kinase reg
ENSRNOG00000019228	<i>Pik3r2</i>	Phosphatidylinositol 3-kinase reg
ENSRNOG00000019228	<i>Pik3r2</i>	Phosphatidylinositol 3-kinase reg
ENSRNOG00000000991	<i>Arpc1b</i>	Actin-related protein 2/3 comple
ENSRNOG00000001227	<i>Adarb1</i>	Double-stranded RNA-specific edi
ENSRNOG00000007574	<i>Padi2</i>	Protein-arginine deiminase type-2
ENSRNOG00000004709	<i>Foxn3</i>	forkhead box protein N3
ENSRNOG00000013333	<i>D3ZDF2_RAT</i>	Uncharacterized protein
ENSRNOG00000013333	<i>D3ZDF2_RAT</i>	Uncharacterized protein

ENSRNOG00000013322	<i>DPOLA_RAT</i>	DNA polymerase alpha catalytic s
ENSRNOG00000008474	<i>Acox3</i>	Peroxisomal acyl-coenzyme A oxi
ENSRNOG00000008474	<i>Acox3</i>	Peroxisomal acyl-coenzyme A oxi
ENSRNOG00000008474	<i>Acox3</i>	Peroxisomal acyl-coenzyme A oxi
ENSRNOG00000001309	<i>Camkk2</i>	Calcium/calmodulin-dependent p
ENSRNOG00000001309	<i>Camkk2</i>	Calcium/calmodulin-dependent p
ENSRNOG00000001309	<i>Camkk2</i>	Calcium/calmodulin-dependent p
ENSRNOG00000001309	<i>Camkk2</i>	Calcium/calmodulin-dependent p
ENSRNOG00000001309	<i>Camkk2</i>	Calcium/calmodulin-dependent p
ENSRNOG00000019346	<i>Tmco3</i>	transmembrane and coiled-coil d
ENSRNOG00000008815	<i>Fbxo46</i>	F-box only protein 46
ENSRNOG00000025818	<i>D3ZYPO_RAT</i>	Uncharacterized protein
ENSRNOG00000019948	<i>Phf20</i>	PHD finger protein 20
ENSRNOG00000019948	<i>Phf20</i>	PHD finger protein 20
ENSRNOG00000032768	<i>D3Z9G8_RAT</i>	syntaxin-binding protein 4
ENSRNOG00000002898	<i>Nme7</i>	Nucleoside diphosphate kinase 7
ENSRNOG00000043167	<i>Itga9</i>	Uncharacterized protein
ENSRNOG00000005930	<i>Nnmt</i>	nicotinamide N-methyltransferase
ENSRNOG00000012818	<i>Ksr1</i>	kinase suppressor of Ras 1
ENSRNOG00000012818	<i>Ksr1</i>	kinase suppressor of Ras 1
ENSRNOG00000012818	<i>Ksr1</i>	kinase suppressor of Ras 1
ENSRNOG00000017132	<i>D4A060_RAT</i>	sorting nexin-30
ENSRNOG00000017132	<i>D4A060_RAT</i>	sorting nexin-30
ENSRNOG00000017132	<i>D4A060_RAT</i>	sorting nexin-30
ENSRNOG00000017132	<i>D4A060_RAT</i>	sorting nexin-30
ENSRNOG00000018342	<i>D3ZD47_RAT</i>	Uncharacterized protein
ENSRNOG00000010365	<i>Syn1</i>	Synapsin-1
ENSRNOG00000010365	<i>Syn1</i>	Synapsin-1
ENSRNOG00000013780	<i>NF1_RAT</i>	Neurofibromin
ENSRNOG00000013780	<i>NF1_RAT</i>	Neurofibromin
ENSRNOG00000013780	<i>NF1_RAT</i>	Neurofibromin
ENSRNOG00000013780	<i>NF1_RAT</i>	Neurofibromin
ENSRNOG00000024414	<i>Ate1</i>	arginyl-tRNA--protein transferase
ENSRNOG00000024414	<i>Ate1</i>	arginyl-tRNA--protein transferase
ENSRNOG00000024414	<i>Ate1</i>	arginyl-tRNA--protein transferase
ENSRNOG00000024414	<i>Ate1</i>	arginyl-tRNA--protein transferase
ENSRNOG00000036814	<i>D4ACY5_RAT</i>	Uncharacterized protein
ENSRNOG00000036814	<i>D4ACY5_RAT</i>	Uncharacterized protein

ENSRNOG00000036814	<i>D4ACY5_RAT</i>	Uncharacterized protein
ENSRNOG00000036814	<i>D4ACY5_RAT</i>	Uncharacterized protein
ENSRNOG00000011254	<i>Fam76a</i>	family with sequence similarity 76
ENSRNOG00000011254	<i>Fam76a</i>	family with sequence similarity 76
ENSRNOG00000011254	<i>Fam76a</i>	family with sequence similarity 76
ENSRNOG00000042519	<i>RGD1312026</i>	similar to RIKEN cDNA C230081A:
ENSRNOG00000003931	<i>Arsq</i>	Arylsulfatase G
ENSRNOG00000010065	<i>D4ADL8_RAT</i>	Uncharacterized protein
ENSRNOG00000010065	<i>D4ADL8_RAT</i>	Uncharacterized protein
ENSRNOG00000014000	<i>Kif2a</i>	Kinesin-like protein KIF2A
ENSRNOG00000014000	<i>Kif2a</i>	Kinesin-like protein KIF2A
ENSRNOG00000020706	<i>Kcnn3</i>	Small conductance calcium-activa
ENSRNOG00000024632	<i>Atf6</i>	cyclic AMP-dependent transcripti
ENSRNOG00000020193	<i>Runx2</i>	Runt-related transcription factor
ENSRNOG00000020193	<i>Runx2</i>	Runt-related transcription factor
ENSRNOG00000015145	<i>Ppp6c</i>	Serine/threonine-protein phosph
ENSRNOG00000018425	<i>Dym</i>	Dymeclin
ENSRNOG00000018425	<i>Dym</i>	Dymeclin
ENSRNOG00000018400	<i>D4AEL2_RAT</i>	Uncharacterized protein
ENSRNOG00000014806	<i>F1M1E4_RAT</i>	myofibrillogenesis regulator 1 iso
ENSRNOG00000014806	<i>F1M1E4_RAT</i>	myofibrillogenesis regulator 1 iso
ENSRNOG00000014806	<i>F1M1E4_RAT</i>	myofibrillogenesis regulator 1 iso
ENSRNOG00000025216	<i>Alkbh6</i>	probable alpha-ketoglutarate-dep
ENSRNOG00000025216	<i>Alkbh6</i>	probable alpha-ketoglutarate-dep
ENSRNOG00000033593	<i>Osbpl9</i>	oxysterol binding protein-like 9
ENSRNOG00000033593	<i>Osbpl9</i>	oxysterol binding protein-like 9
ENSRNOG00000033593	<i>Osbpl9</i>	oxysterol binding protein-like 9
ENSRNOG00000024533	<i>Aer61</i>	Uncharacterized glycosyltransfer
ENSRNOG00000015677	<i>Cda</i>	cytidine deaminase
ENSRNOG00000002122	<i>Lrrc8c</i>	Leucine-rich repeat-containing pr
ENSRNOG00000005183	<i>Rtf1</i>	RNA polymerase-associated prote
ENSRNOG00000005183	<i>Rtf1</i>	RNA polymerase-associated prote
ENSRNOG00000005183	<i>Rtf1</i>	RNA polymerase-associated prote
ENSRNOG00000013946	<i>D3ZI66_RAT</i>	Uncharacterized protein
ENSRNOG00000038079	<i>Uba2</i>	ubiquitin-like modifier activating
ENSRNOG00000038079	<i>Uba2</i>	ubiquitin-like modifier activating
ENSRNOG00000017463	<i>Bloc1s3</i>	Uncharacterized protein
ENSRNOG00000023760	<i>Plekhm3</i>	Uncharacterized protein

ENSRNOG00000023760	<i>Plekhm3</i>	Uncharacterized protein
ENSRNOG00000011752	<i>Sh3d19</i>	Similar to SH3 domain protein D1
ENSRNOG00000000695	<i>F1LWM1_RAT</i>	Uncharacterized protein
ENSRNOG00000000695	<i>F1LWM1_RAT</i>	Uncharacterized protein
ENSRNOG00000032055	<i>Spats2</i>	spermatogenesis-associated serin
ENSRNOG00000032055	<i>Spats2</i>	spermatogenesis-associated serin
ENSRNOG00000027002	<i>D4A8R8_RAT</i>	Uncharacterized protein
ENSRNOG00000016897	<i>Rlbp1</i>	retinaldehyde-binding protein 1
ENSRNOG00000015932	<i>RGD1306839</i>	similar to RIKEN cDNA 5033414D(
ENSRNOG00000034298	<i>F1LXEO_RAT</i>	Uncharacterized protein
ENSRNOG00000034298	<i>F1LXEO_RAT</i>	Uncharacterized protein
ENSRNOG00000034298	<i>F1LXEO_RAT</i>	Uncharacterized protein
ENSRNOG00000034298	<i>F1LXEO_RAT</i>	Uncharacterized protein
ENSRNOG00000007246	<i>Atnx7</i>	Uncharacterized protein
ENSRNOG00000030216	<i>Abcg3l1</i>	ATP-binding cassette
ENSRNOG00000030216	<i>Abcg3l1</i>	ATP-binding cassette
ENSRNOG00000011321	<i>Rftn1</i>	raft-linking protein
ENSRNOG00000026059	<i>Paqr6</i>	progestin and adipoQ receptor fa
ENSRNOG00000026059	<i>Paqr6</i>	progestin and adipoQ receptor fa
ENSRNOG00000026059	<i>Paqr6</i>	progestin and adipoQ receptor fa
ENSRNOG00000003821	<i>D3ZDU2_RAT</i>	raptor
ENSRNOG00000012405	<i>Tcf4</i>	Transcription factor 4
ENSRNOG00000012405	<i>Tcf4</i>	Transcription factor 4
ENSRNOG00000014616	<i>Iars</i>	isoleucyl-tRNA synthetase
ENSRNOG00000014616	<i>Iars</i>	isoleucyl-tRNA synthetase
ENSRNOG00000005984	<i>Etv6</i>	transcription factor ETV6
ENSRNOG00000005984	<i>Etv6</i>	transcription factor ETV6
ENSRNOG00000019299	<i>Edem2</i>	ER degradation-enhancing alpha-
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000018649	<i>Slc35c2</i>	solute carrier family 35 member (
ENSRNOG00000022929	<i>MTMRC_RAT</i>	Myotubularin-related protein 12
ENSRNOG00000022929	<i>MTMRC_RAT</i>	Myotubularin-related protein 12
ENSRNOG00000005234	<i>Glt8d3</i>	Glucoside xylosyltransferase 1
ENSRNOG00000005234	<i>Glt8d3</i>	Glucoside xylosyltransferase 1

ENSRNOG00000005234	<i>Glt8d3</i>	Glucoside xylosyltransferase 1
ENSRNOG00000002040	<i>Bmp2k</i>	Uncharacterized protein
ENSRNOG00000002040	<i>Bmp2k</i>	Uncharacterized protein
ENSRNOG00000005483	<i>Rpap1</i>	RNA polymerase II-associated pro
ENSRNOG00000011435	<i>Osbpl10</i>	Oxysterol-binding protein
ENSRNOG00000011435	<i>Osbpl10</i>	Oxysterol-binding protein
ENSRNOG00000024352	<i>Tyw1</i>	tRNA wybutosine-synthesizing pr
ENSRNOG00000033234	<i>Ccrl2</i>	C-C chemokine receptor-like 2
ENSRNOG00000000567	<i>Unc5b</i>	Netrin receptor UNC5B
ENSRNOG00000000567	<i>Unc5b</i>	Netrin receptor UNC5B
ENSRNOG00000000567	<i>Unc5b</i>	Netrin receptor UNC5B
ENSRNOG00000000567	<i>Unc5b</i>	Netrin receptor UNC5B
ENSRNOG00000009980	<i>Ppap2a</i>	Lipid phosphate phosphohydrolas
ENSRNOG00000009980	<i>Ppap2a</i>	Lipid phosphate phosphohydrolas
ENSRNOG00000009980	<i>Ppap2a</i>	Lipid phosphate phosphohydrolas
ENSRNOG00000001289	<i>LOC498154</i>	Uncharacterized protein C7orf50
ENSRNOG00000001289	<i>LOC498154</i>	Uncharacterized protein C7orf50
ENSRNOG00000001289	<i>LOC498154</i>	Uncharacterized protein C7orf50
ENSRNOG00000001289	<i>LOC498154</i>	Uncharacterized protein C7orf50
ENSRNOG00000001304	<i>Bcr</i>	Uncharacterized protein
ENSRNOG00000001304	<i>Bcr</i>	Uncharacterized protein
ENSRNOG00000001242	<i>Gstt3</i>	Glutathione S-transferase theta-1
ENSRNOG00000001242	<i>Gstt3</i>	Glutathione S-transferase theta-1
ENSRNOG00000012561	<i>F1M0Z4_RAT</i>	Uncharacterized protein
ENSRNOG00000012363	<i>Peli2</i>	protein pellino homolog 2
ENSRNOG00000012363	<i>Peli2</i>	protein pellino homolog 2
ENSRNOG00000013875	<i>Fbxl17</i>	F-box/LRR-repeat protein 17
ENSRNOG00000016696	<i>Angpt2</i>	Angiopoietin-2
ENSRNOG00000016696	<i>Angpt2</i>	Angiopoietin-2
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000034025	<i>D4A4T5_RAT</i>	Uncharacterized protein
ENSRNOG00000042096	<i>LOC100366081</i>	RCG54037Uncharacterized protei

ENSRNOG00000013323	<i>Rnf217</i>	probable E3 ubiquitin-protein liga
ENSRNOG00000010227	<i>RGD1308907</i>	similar to FLJ20689 (RGD1308907
ENSRNOG00000010227	<i>RGD1308907</i>	similar to FLJ20689 (RGD1308907
ENSRNOG00000028426	<i>Mcf2l</i>	Guanine nucleotide exchange fac
ENSRNOG00000028426	<i>Mcf2l</i>	Guanine nucleotide exchange fac
ENSRNOG00000028426	<i>Mcf2l</i>	Guanine nucleotide exchange fac
ENSRNOG00000028426	<i>Mcf2l</i>	Guanine nucleotide exchange fac
ENSRNOG00000013135	<i>Ptpn12</i>	tyrosine-protein phosphatase nor
ENSRNOG00000013135	<i>Ptpn12</i>	tyrosine-protein phosphatase nor
ENSRNOG00000016306	<i>Gpr98</i>	Uncharacterized protein
ENSRNOG00000016306	<i>Gpr98</i>	Uncharacterized protein
ENSRNOG00000009708	<i>Tas1r1</i>	Taste receptor type 1 member 1
ENSRNOG00000008904	<i>Fli1</i>	Friend leukemia integration 1 tra
ENSRNOG00000008904	<i>Fli1</i>	Friend leukemia integration 1 tra
ENSRNOG00000013436	<i>Pde7b</i>	cAMP-specific 3'
ENSRNOG00000013436	<i>Pde7b</i>	cAMP-specific 3'
ENSRNOG00000013962	<i>Magi2</i>	Membrane-associated guanylate
ENSRNOG00000013962	<i>Magi2</i>	Membrane-associated guanylate
ENSRNOG00000013962	<i>Magi2</i>	Membrane-associated guanylate
ENSRNOG00000013962	<i>Magi2</i>	Membrane-associated guanylate
ENSRNOG00000007310	<i>Klr1a</i>	Killer cell lectin-like receptor subf
ENSRNOG00000010155	<i>Pcm1</i>	pericentriolar material 1
ENSRNOG00000010155	<i>Pcm1</i>	pericentriolar material 1
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000002749	<i>E9PU51_RAT</i>	C-Jun-amino-terminal kinase-inte
ENSRNOG00000019140	<i>Banp</i>	protein BANP
ENSRNOG00000019140	<i>Banp</i>	protein BANP
ENSRNOG00000019140	<i>Banp</i>	protein BANP
ENSRNOG00000001288	<i>Gpr146</i>	probable G-protein coupled recep
ENSRNOG00000012016	<i>Cdig2</i>	Niemann-Pick disease
ENSRNOG00000009726	<i>Grip2</i>	Glutamate receptor-interacting p
ENSRNOG00000009726	<i>Grip2</i>	Glutamate receptor-interacting p
ENSRNOG00000009726	<i>Grip2</i>	Glutamate receptor-interacting p

ENSRNOG00000016544	<i>Rgnef</i>	Rho-guanine nucleotide exchange
ENSRNOG00000016544	<i>Rgnef</i>	Rho-guanine nucleotide exchange
ENSRNOG00000000661	<i>Hps4</i>	Hermansky-Pudlak syndrome 4 ho
ENSRNOG00000010813	<i>Tspan14</i>	tetraspanin-14
ENSRNOG00000033425	<i>F1M2T8_RAT</i>	Uncharacterized protein
ENSRNOG00000021380	<i>Fads6</i>	fatty acid desaturase 6
ENSRNOG00000021380	<i>Fads6</i>	fatty acid desaturase 6
ENSRNOG00000015455	<i>Spr</i>	Sepiapterin reductase
ENSRNOG00000001123	<i>RGD1562310</i>	Putative uncharacterized protein
ENSRNOG00000010630	<i>Prcp</i>	lysosomal Pro-X carboxypeptidase
ENSRNOG00000002146	<i>Pkd2</i>	polycystin-2
ENSRNOG00000002146	<i>Pkd2</i>	polycystin-2
ENSRNOG00000002146	<i>Pkd2</i>	polycystin-2
ENSRNOG00000002146	<i>Pkd2</i>	polycystin-2
ENSRNOG00000015821	<i>Cd2</i>	T-cell surface antigen CD2
ENSRNOG00000015821	<i>Cd2</i>	T-cell surface antigen CD2
ENSRNOG00000002256	<i>Art3</i>	ecto-ADP-ribosyltransferase 3
ENSRNOG00000020799	<i>Polr2i</i>	DNA-directed RNA polymerase II :
ENSRNOG00000022312	<i>Lrsam1</i>	E3 ubiquitin-protein ligase LRSAM
ENSRNOG00000022312	<i>Lrsam1</i>	E3 ubiquitin-protein ligase LRSAM
ENSRNOG00000022312	<i>Lrsam1</i>	E3 ubiquitin-protein ligase LRSAM
ENSRNOG00000022312	<i>Lrsam1</i>	E3 ubiquitin-protein ligase LRSAM
ENSRNOG00000003138	<i>Fcgr2a</i>	Low affinity immunoglobulin gam
ENSRNOG00000017940	<i>Rere</i>	Arginine-glutamic acid dipeptide 1
ENSRNOG00000017940	<i>Rere</i>	Arginine-glutamic acid dipeptide 1
ENSRNOG00000017940	<i>Rere</i>	Arginine-glutamic acid dipeptide 1
ENSRNOG00000011614	<i>Tmcc1</i>	Uncharacterized protein
ENSRNOG00000009276	<i>Schip1</i>	schwannomin interacting protein
ENSRNOG00000009276	<i>Schip1</i>	schwannomin interacting protein
ENSRNOG00000008658	<i>Mitf</i>	Microphthalmia-associated trans
ENSRNOG00000008658	<i>Mitf</i>	Microphthalmia-associated trans
ENSRNOG00000008658	<i>Mitf</i>	Microphthalmia-associated trans
ENSRNOG00000008658	<i>Mitf</i>	Microphthalmia-associated trans
ENSRNOG00000008658	<i>Mitf</i>	Microphthalmia-associated trans
ENSRNOG00000000599	<i>F1LTF8_RAT</i>	Uncharacterized protein
ENSRNOG00000016610	<i>Arhgap1</i>	Rho GTPase activating protein 1
ENSRNOG00000016610	<i>Arhgap1</i>	Rho GTPase activating protein 1
ENSRNOG00000007474	<i>ST7</i>	Suppressor of tumorigenicity 7 pr

ENSRNOG00000011969	<i>Dock9</i>	Dedicator of cytokinesis protein 9
ENSRNOG00000011969	<i>Dock9</i>	Dedicator of cytokinesis protein 9
ENSRNOG00000011969	<i>Dock9</i>	Dedicator of cytokinesis protein 9
ENSRNOG00000013177	<i>Map3k1</i>	Mitogen-activated protein kinase
ENSRNOG00000013177	<i>Map3k1</i>	Mitogen-activated protein kinase
ENSRNOG00000021526	<i>Slc25a34</i>	Solute carrier family 25 member 34
ENSRNOG00000026978	<i>Oscp1</i>	Protein OSCP1
ENSRNOG00000026978	<i>Oscp1</i>	Protein OSCP1
ENSRNOG00000010219	<i>GNDS_RAT</i>	Ral guanine nucleotide dissociation inhibitor 1
ENSRNOG00000010219	<i>GNDS_RAT</i>	Ral guanine nucleotide dissociation inhibitor 1
ENSRNOG00000040148	<i>F1M4U8_RAT</i>	Uncharacterized protein
ENSRNOG00000040148	<i>F1M4U8_RAT</i>	Uncharacterized protein
ENSRNOG00000011700	<i>Ptprm</i>	receptor-type tyrosine-protein phosphatase
ENSRNOG00000011700	<i>Ptprm</i>	receptor-type tyrosine-protein phosphatase
ENSRNOG00000001713	--	--
ENSRNOG00000001713	--	--
ENSRNOG00000001713	--	--
ENSRNOG00000036697	<i>Mafg</i>	Transcription factor MafG
ENSRNOG00000002559	<i>Cacna1a</i>	Voltage-dependent P/Q-type calcium channel subunit alpha1A
ENSRNOG00000002559	<i>Cacna1a</i>	Voltage-dependent P/Q-type calcium channel subunit alpha1A
ENSRNOG00000002559	<i>Cacna1a</i>	Voltage-dependent P/Q-type calcium channel subunit alpha1A
ENSRNOG00000002559	<i>Cacna1a</i>	Voltage-dependent P/Q-type calcium channel subunit alpha1A
ENSRNOG00000025479	<i>F1LVW3_RAT</i>	Uncharacterized protein
ENSRNOG00000014522	<i>Mlycd</i>	Malonyl-CoA decarboxylase
ENSRNOG00000008169	<i>Slc24a2</i>	Sodium/potassium/calcium exchanger 2
ENSRNOG00000008169	<i>Slc24a2</i>	Sodium/potassium/calcium exchanger 2
ENSRNOG00000017628	<i>Tagln</i>	Transgelin
ENSRNOG00000012932	<i>LOC499980</i>	Coiled-coil domain-containing protein 1
ENSRNOG00000000940	<i>Flt1</i>	Vascular endothelial growth factor receptor 1
ENSRNOG00000001047	<i>Map2k7</i>	Dual specificity mitogen-activated protein kinase 7
ENSRNOG00000001047	<i>Map2k7</i>	Dual specificity mitogen-activated protein kinase 7
ENSRNOG00000004104	<i>E9PTG0_RAT</i>	zinc finger protein 167
ENSRNOG00000036675	<i>Btbd16</i>	BTB/POZ domain-containing protein 16
ENSRNOG00000036675	<i>Btbd16</i>	BTB/POZ domain-containing protein 16
ENSRNOG00000036675	<i>Btbd16</i>	BTB/POZ domain-containing protein 16
ENSRNOG00000036675	<i>Btbd16</i>	BTB/POZ domain-containing protein 16
ENSRNOG00000018382	<i>Inpp4b</i>	Type II inositol-3-phosphatase
ENSRNOG00000018382	<i>Inpp4b</i>	Type II inositol-3-phosphatase

ENSRNOG00000030542	<i>D4AEE8_RAT</i>	Uncharacterized protein
ENSRNOG00000019012	<i>D2hgdh</i>	D-2-hydroxyglutarate dehydrogenase
ENSRNOG00000008314	<i>Orc3l</i>	Origin recognition complex subunit 3
ENSRNOG00000000596	<i>Fyn</i>	Tyrosine-protein kinase Fyn
ENSRNOG00000000596	<i>Fyn</i>	Tyrosine-protein kinase Fyn
ENSRNOG00000028394	<i>Vpreb3</i>	pre-B lymphocyte protein 3
ENSRNOG00000002347	<i>Rgl1</i>	regulator of guanine nucleotide dissociation-inhibited protein 1
ENSRNOG00000002347	<i>Rgl1</i>	regulator of guanine nucleotide dissociation-inhibited protein 1
ENSRNOG00000023376	<i>Riok3</i>	serine/threonine-protein kinase F
ENSRNOG00000025290	<i>RGD1560603</i>	Uncharacterized protein
ENSRNOG00000043562	--	--
ENSRNOG00000017671	<i>Rasa3</i>	Ras GTPase-activating protein 3
ENSRNOG00000017671	<i>Rasa3</i>	Ras GTPase-activating protein 3
ENSRNOG00000009085	<i>Prkag2</i>	5'-AMP-activated protein kinase subunit gamma
ENSRNOG00000009085	<i>Prkag2</i>	5'-AMP-activated protein kinase subunit gamma
ENSRNOG00000003042	<i>Mettl13</i>	methyltransferase-like protein 13
ENSRNOG00000003042	<i>Mettl13</i>	methyltransferase-like protein 13
ENSRNOG00000003042	<i>Mettl13</i>	methyltransferase-like protein 13
ENSRNOG00000014264	<i>Phactr1</i>	Phosphatase and actin regulator 1
ENSRNOG00000014264	<i>Phactr1</i>	Phosphatase and actin regulator 1
ENSRNOG00000014264	<i>Phactr1</i>	Phosphatase and actin regulator 1
ENSRNOG00000014264	<i>Phactr1</i>	Phosphatase and actin regulator 1
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000018839	<i>Ntrk2</i>	BDNF/NT-3 growth factors receptor tyrosine kinase 2
ENSRNOG00000017673	<i>Brsk1</i>	BR serine/threonine-protein kinase
ENSRNOG00000009956	<i>WNK1_RAT</i>	Serine/threonine-protein kinase WNK1
ENSRNOG00000009956	<i>WNK1_RAT</i>	Serine/threonine-protein kinase WNK1
ENSRNOG00000009956	<i>WNK1_RAT</i>	Serine/threonine-protein kinase WNK1
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c

ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000024457	<i>Cyct</i>	Cytochrome c
ENSRNOG00000036798	<i>Dusp3</i>	dual specificity phosphatase 3
ENSRNOG00000016511	<i>Pitrm1</i>	presequence protease
ENSRNOG00000016511	<i>Pitrm1</i>	presequence protease
ENSRNOG00000016511	<i>Pitrm1</i>	presequence protease
ENSRNOG00000043203	<i>K2C75_RAT</i>	Keratin
ENSRNOG00000043203	<i>K2C75_RAT</i>	Keratin
ENSRNOG00000013351	<i>STXB5_RAT</i>	Syntaxin-binding protein 5
ENSRNOG00000013351	<i>STXB5_RAT</i>	Syntaxin-binding protein 5
ENSRNOG00000013351	<i>STXB5_RAT</i>	Syntaxin-binding protein 5
ENSRNOG00000013388	<i>Pgap1</i>	GPI inositol-deacylase
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000015898	<i>Fert2</i>	Tyrosine-protein kinase Fer
ENSRNOG00000019623	<i>D3ZQW0_RAT</i>	Uncharacterized protein
ENSRNOG00000019623	<i>D3ZQW0_RAT</i>	Uncharacterized protein
ENSRNOG00000019623	<i>D3ZQW0_RAT</i>	Uncharacterized protein
ENSRNOG00000019623	<i>D3ZQW0_RAT</i>	Uncharacterized protein
ENSRNOG00000008786	<i>Ap1b1</i>	AP-1 complex subunit beta-1
ENSRNOG00000008786	<i>Ap1b1</i>	AP-1 complex subunit beta-1
ENSRNOG00000008786	<i>Ap1b1</i>	AP-1 complex subunit beta-1
ENSRNOG00000013933	<i>Med27</i>	mediator of RNA polymerase II tr
ENSRNOG00000018413	<i>Per3</i>	Period circadian protein homolog
ENSRNOG00000018413	<i>Per3</i>	Period circadian protein homolog
ENSRNOG00000018413	<i>Per3</i>	Period circadian protein homolog
ENSRNOG00000018413	<i>Per3</i>	Period circadian protein homolog

ENSRNOG00000036585	<i>F1LN76_RAT</i>	Uncharacterized protein
ENSRNOG00000014079	<i>Stat4</i>	signal transducer and activator of
ENSRNOG00000014079	<i>Stat4</i>	signal transducer and activator of
ENSRNOG00000014241	<i>Ece1</i>	Endothelin-converting enzyme 1
ENSRNOG00000014241	<i>Ece1</i>	Endothelin-converting enzyme 1
ENSRNOG00000015514	<i>Bcat1</i>	Branched-chain-amino-acid amin
ENSRNOG00000015514	<i>Bcat1</i>	Branched-chain-amino-acid amin
ENSRNOG00000015514	<i>Bcat1</i>	Branched-chain-amino-acid amin
ENSRNOG00000015514	<i>Bcat1</i>	Branched-chain-amino-acid amin
ENSRNOG00000007330	<i>Capzb</i>	F-actin-capping protein subunit b
ENSRNOG00000007330	<i>Capzb</i>	F-actin-capping protein subunit b
ENSRNOG00000007330	<i>Capzb</i>	F-actin-capping protein subunit b
ENSRNOG00000008279	<i>Mrps15</i>	28S ribosomal protein S15
ENSRNOG00000014504	<i>Il1r1</i>	Interleukin-1 receptor type 1
ENSRNOG00000014504	<i>Il1r1</i>	Interleukin-1 receptor type 1
ENSRNOG00000014504	<i>Il1r1</i>	Interleukin-1 receptor type 1
ENSRNOG00000001804	<i>ITPR2_RAT</i>	Inositol 1
ENSRNOG00000001804	<i>ITPR2_RAT</i>	Inositol 1
ENSRNOG00000001804	<i>ITPR2_RAT</i>	Inositol 1
ENSRNOG00000001804	<i>ITPR2_RAT</i>	Inositol 1
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000003901	<i>Ccdc104</i>	Coiled-coil domain-containing prc
ENSRNOG00000000373	<i>LOC100362857</i>	Uncharacterized protein
ENSRNOG00000001141	<i>Srrm4</i>	Uncharacterized protein
ENSRNOG00000001174	<i>Pde9a</i>	high affinity cGMP-specific 3'
ENSRNOG00000001174	<i>Pde9a</i>	high affinity cGMP-specific 3'
ENSRNOG00000001298	<i>F1LQV2_RAT</i>	Uncharacterized protein
ENSRNOG00000001618	<i>Ripk4</i>	receptor-interacting serine/threo
ENSRNOG00000001658	<i>IRK6_RAT</i>	G protein-activated inward rectifi
ENSRNOG00000001658	<i>IRK6_RAT</i>	G protein-activated inward rectifi
ENSRNOG00000003741	<i>Nptx1</i>	Neuronal pentraxin-1
ENSRNOG00000004516	<i>Itgbl1</i>	Integrin beta-like protein 1
ENSRNOG00000004516	<i>Itgbl1</i>	Integrin beta-like protein 1
ENSRNOG00000004928	<i>Sntg2</i>	gamma-2-syntrophin

ENSRNOG00000004928	<i>Sntg2</i>	gamma-2-syntrophin
ENSRNOG00000004966	<i>Slc38a11</i>	Uncharacterized protein
ENSRNOG00000004966	<i>Slc38a11</i>	Uncharacterized protein
ENSRNOG00000004966	<i>Slc38a11</i>	Uncharacterized protein
ENSRNOG00000004966	<i>Slc38a11</i>	Uncharacterized protein
ENSRNOG00000004966	<i>Slc38a11</i>	Uncharacterized protein
ENSRNOG00000004994	<i>Agr3</i>	anterior gradient protein 3 homo
ENSRNOG00000004994	<i>Agr3</i>	anterior gradient protein 3 homo
ENSRNOG00000004994	<i>Agr3</i>	anterior gradient protein 3 homo
ENSRNOG00000005451	<i>E9PU24_RAT</i>	Uncharacterized protein
ENSRNOG00000006226	<i>Cacng2</i>	voltage-dependent calcium chanr
ENSRNOG00000006890	<i>LOC100365021</i>	Uncharacterized protein
ENSRNOG00000006890	<i>LOC100365021</i>	Uncharacterized protein
ENSRNOG00000006891	<i>Avpr1b</i>	Vasopressin V1b receptor
ENSRNOG00000006891	<i>Avpr1b</i>	Vasopressin V1b receptor
ENSRNOG00000006957	<i>Gria4</i>	Glutamate receptor 4
ENSRNOG00000006957	<i>Gria4</i>	Glutamate receptor 4
ENSRNOG00000006957	<i>Gria4</i>	Glutamate receptor 4
ENSRNOG00000007108	<i>Bmp7</i>	bone morphogenetic protein 7
ENSRNOG00000007185	<i>D3ZCP4_RAT</i>	leiomodrin-1
ENSRNOG00000007575	<i>Lppr1</i>	Lipid phosphate phosphatase-rela
ENSRNOG00000007843	<i>Wnt2</i>	Protein Wnt
ENSRNOG00000008065	<i>Wwc1</i>	Uncharacterized protein
ENSRNOG00000008570	<i>Cadps</i>	Calcium-dependent secretion acti
ENSRNOG00000008570	<i>Cadps</i>	Calcium-dependent secretion acti
ENSRNOG00000008570	<i>Cadps</i>	Calcium-dependent secretion acti
ENSRNOG00000008570	<i>Cadps</i>	Calcium-dependent secretion acti
ENSRNOG00000008761	<i>Freq</i>	Neuronal calcium sensor 1
ENSRNOG00000008766	<i>Grin2b</i>	Glutamate
ENSRNOG00000009771	<i>Cdh10</i>	cadherin-10
ENSRNOG00000011184	<i>Slc13a4</i>	solute carrier family 13 member 4
ENSRNOG00000011184	<i>Slc13a4</i>	solute carrier family 13 member 4
ENSRNOG00000011203	<i>Farp1</i>	FERM
ENSRNOG00000011203	<i>Farp1</i>	FERM
ENSRNOG00000011475	<i>Snip</i>	SRC kinase signaling inhibitor 1
ENSRNOG00000011475	<i>Snip</i>	SRC kinase signaling inhibitor 1
ENSRNOG00000011475	<i>Snip</i>	SRC kinase signaling inhibitor 1

ENSRNOG00000011475	<i>Snip</i>	SRC kinase signaling inhibitor 1
ENSRNOG00000012189	<i>Lect2</i>	leukocyte cell-derived chemotaxi
ENSRNOG00000012189	<i>Lect2</i>	leukocyte cell-derived chemotaxi
ENSRNOG00000012342	<i>Ttc29</i>	Tetratricopeptide repeat protein
ENSRNOG00000012817	<i>Lrrc17</i>	leucine rich repeat containing 17
ENSRNOG00000012817	<i>Lrrc17</i>	leucine rich repeat containing 17
ENSRNOG00000012906	<i>Bcas1</i>	Breast carcinoma-amplified sequ
ENSRNOG00000012906	<i>Bcas1</i>	Breast carcinoma-amplified sequ
ENSRNOG00000012906	<i>Bcas1</i>	Breast carcinoma-amplified sequ
ENSRNOG00000012906	<i>Bcas1</i>	Breast carcinoma-amplified sequ
ENSRNOG00000012906	<i>Bcas1</i>	Breast carcinoma-amplified sequ
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000013391	<i>Sorbs2</i>	Sorbin and SH3 domain-containin
ENSRNOG00000014775	<i>Nol4</i>	nucleolar protein 4
ENSRNOG00000015058	<i>F1M245_RAT</i>	Uncharacterized protein
ENSRNOG00000015058	<i>F1M245_RAT</i>	Uncharacterized protein
ENSRNOG00000015149	<i>F1M0L6_RAT</i>	pro-neuregulin-4
ENSRNOG00000016043	<i>Aqp4</i>	Aquaporin-4
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016374	<i>Fgfr2</i>	fibroblast growth factor receptor
ENSRNOG00000016472	<i>42067</i>	Uncharacterized protein
ENSRNOG00000016483	<i>Myo16</i>	Myosin-XVI
ENSRNOG00000016483	<i>Myo16</i>	Myosin-XVI
ENSRNOG00000016483	<i>Myo16</i>	Myosin-XVI
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori

ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016712	<i>Lhcgr</i>	Lutropin-choriogonadotropic hori
ENSRNOG00000016783	<i>Fshr</i>	Follicle-stimulating hormone rece
ENSRNOG00000016783	<i>Fshr</i>	Follicle-stimulating hormone rece
ENSRNOG00000016887	<i>Hrh4</i>	Histamine H4 receptor
ENSRNOG00000017712	<i>Cartpt</i>	Cocaine- and amphetamine-regul
ENSRNOG00000017712	<i>Cartpt</i>	Cocaine- and amphetamine-regul
ENSRNOG00000018602	<i>F1M4M6_RAT</i>	calmodulin binding transcription ;
ENSRNOG00000018602	<i>F1M4M6_RAT</i>	calmodulin binding transcription ;
ENSRNOG00000018602	<i>F1M4M6_RAT</i>	calmodulin binding transcription ;
ENSRNOG00000018607	<i>Slc12a3</i>	Solute carrier family 12 member ;
ENSRNOG00000018739	<i>Pax7</i>	paired box protein Pax-7
ENSRNOG00000019613	<i>Syt9</i>	Synaptotagmin-9
ENSRNOG00000020138	<i>Slc4a3</i>	Anion exchange protein 3
ENSRNOG00000020138	<i>Slc4a3</i>	Anion exchange protein 3
ENSRNOG00000020138	<i>Slc4a3</i>	Anion exchange protein 3
ENSRNOG00000020532	<i>Kcnq1</i>	Potassium voltage-gated channel
ENSRNOG00000020532	<i>Kcnq1</i>	Potassium voltage-gated channel
ENSRNOG00000021169	<i>RGD1562196</i>	--
ENSRNOG00000021566	<i>F1M3H5_RAT</i>	Uncharacterized protein
ENSRNOG00000021984	<i>Rgs7</i>	Regulator of G-protein signaling 7
ENSRNOG00000021984	<i>Rgs7</i>	Regulator of G-protein signaling 7
ENSRNOG00000022297	<i>Kcnmb4</i>	Calcium-activated potassium char
ENSRNOG00000022420	<i>F1M7E6_RAT</i>	Uncharacterized protein
ENSRNOG00000024127	<i>Atp13a5</i>	probable cation-transporting ATP
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024657	<i>Mfsd4</i>	major facilitator superfamily dom
ENSRNOG00000024880	<i>D3ZKH1_RAT</i>	Uncharacterized protein
ENSRNOG00000025365	<i>LOC684861</i>	Uncharacterized protein
ENSRNOG00000025365	<i>LOC684861</i>	Uncharacterized protein

ENSRNOG00000025480	<i>LOC684368</i>	Uncharacterized protein
ENSRNOG00000025776	<i>Ccdc148</i>	coiled-coil domain-containing pro
ENSRNOG00000025889	<i>GNAS3_RAT</i>	Neuroendocrine secretory protei
ENSRNOG00000025889	<i>GNAS3_RAT</i>	Neuroendocrine secretory protei
ENSRNOG00000025889	<i>GNAS3_RAT</i>	Neuroendocrine secretory protei
ENSRNOG00000025889	<i>GNAS3_RAT</i>	Neuroendocrine secretory protei
ENSRNOG00000027954	<i>Cdh15</i>	cadherin-15
ENSRNOG00000028225	<i>Tnni3k</i>	Serine/threonine-protein kinase 1
ENSRNOG00000028281	--	--
ENSRNOG00000028630	<i>F1LY04_RAT</i>	Uncharacterized protein
ENSRNOG00000029933	<i>F1M8Z1_RAT</i>	Uncharacterized protein
ENSRNOG00000030060	<i>F1LYB4_RAT</i>	Uncharacterized protein
ENSRNOG00000030060	<i>F1LYB4_RAT</i>	Uncharacterized protein
ENSRNOG00000030098	<i>D3ZVM4_RAT</i>	tripartite motif-containing protei
ENSRNOG00000030547	<i>Dpp6</i>	Dipeptidyl aminopeptidase-like pi
ENSRNOG00000030547	<i>Dpp6</i>	Dipeptidyl aminopeptidase-like pi
ENSRNOG00000031100	<i>Klhl1</i>	kelch-like protein 1
ENSRNOG00000031100	<i>Klhl1</i>	kelch-like protein 1
ENSRNOG00000031189	<i>Ido1</i>	Indoleamine 2
ENSRNOG00000031782	<i>F1M6H4_RAT</i>	Uncharacterized protein
ENSRNOG00000031782	<i>F1M6H4_RAT</i>	Uncharacterized protein
ENSRNOG00000031921	<i>F1M2T6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000031922	<i>F1LVN6_RAT</i>	Uncharacterized protein
ENSRNOG00000033026	<i>Dclk3</i>	serine/threonine-protein kinase [
ENSRNOG00000033162	<i>Chia</i>	Acidic mammalian chitinase
ENSRNOG00000033162	<i>Chia</i>	Acidic mammalian chitinase
ENSRNOG00000033162	<i>Chia</i>	Acidic mammalian chitinase
ENSRNOG00000033162	<i>Chia</i>	Acidic mammalian chitinase
ENSRNOG00000033162	<i>Chia</i>	Acidic mammalian chitinase
ENSRNOG00000033274	<i>RGD1565415</i>	Uncharacterized protein
ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein
ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein
ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein
ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein

ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein
ENSRNOG00000033892	<i>F1LY54_RAT</i>	Uncharacterized protein
ENSRNOG00000034177	<i>Efna5</i>	Ephrin-A5
ENSRNOG00000034343	<i>U6</i>	U6 spliceosomal RNA
ENSRNOG00000035313	<i>U6</i>	U6 spliceosomal RNA
ENSRNOG00000035313	<i>U6</i>	U6 spliceosomal RNA
ENSRNOG00000035313	<i>U6</i>	U6 spliceosomal RNA
ENSRNOG00000036519	--	--
ENSRNOG00000036958	<i>RGD1311728</i>	Uncharacterized protein
ENSRNOG00000037164	<i>LOC100361340</i>	Uncharacterized protein
ENSRNOG00000037202	<i>F1LZP6_RAT</i>	Uncharacterized protein
ENSRNOG00000037315	<i>RGD1559714</i>	TRAF domain and POZ/BTB conta
ENSRNOG00000037315	<i>RGD1559714</i>	TRAF domain and POZ/BTB conta
ENSRNOG00000037315	<i>RGD1559714</i>	TRAF domain and POZ/BTB conta
ENSRNOG00000037315	<i>RGD1559714</i>	TRAF domain and POZ/BTB conta
ENSRNOG00000037367	<i>F1LW06_RAT</i>	Uncharacterized protein
ENSRNOG00000037367	<i>F1LW06_RAT</i>	Uncharacterized protein
ENSRNOG00000037367	<i>F1LW06_RAT</i>	Uncharacterized protein
ENSRNOG00000038328	<i>Gjc2</i>	gap junction protein
ENSRNOG00000038328	<i>Gjc2</i>	gap junction protein
ENSRNOG00000038721	<i>D3ZJN6_RAT</i>	Uncharacterized protein
ENSRNOG00000039152	<i>Frem3</i>	FRAS1-related extracellular matri:
ENSRNOG00000039526	<i>F1LZ12_RAT</i>	Uncharacterized protein
ENSRNOG00000039629	<i>F1M9D7_RAT</i>	Uncharacterized protein
ENSRNOG00000039855	<i>F1M6C9_RAT</i>	Uncharacterized protein
ENSRNOG00000040188	<i>Lcn3</i>	Uncharacterized protein
ENSRNOG00000040337	<i>D3ZKK1_RAT</i>	Uncharacterized protein
ENSRNOG00000040915	<i>SNORD24</i>	Small nucleolar RNA SNORD24
ENSRNOG00000041471	--	--
ENSRNOG00000041556	<i>5_8S_rRNA</i>	5.8S ribosomal RNA
ENSRNOG00000041610	--	--
ENSRNOG00000042221	<i>E9PSJ9_RAT</i>	RAF domain and POZ/BTB contain
ENSRNOG00000042221	<i>E9PSJ9_RAT</i>	RAF domain and POZ/BTB contain
ENSRNOG00000042745	<i>LOC682835</i>	Uncharacterized protein
ENSRNOG00000042745	<i>LOC682835</i>	Uncharacterized protein
ENSRNOG00000042745	<i>LOC682835</i>	Uncharacterized protein
ENSRNOG00000042884	<i>D3ZCU5_RAT</i>	Uncharacterized protein
ENSRNOG00000043035	<i>Fbxl13</i>	F-box and leucine-rich repeat pro

ENSRNOG00000043035	<i>Fbxl13</i>	F-box and leucine-rich repeat pro
ENSRNOG00000043173	<i>F1LVU1_RAT</i>	Uncharacterized protein
ENSRNOG00000044911	<i>7SK</i>	7SK RNA
ENSRNOG00000045135	<i>U6</i>	U6 spliceosomal RNA

ne protein 3

ent protein 3

taining family H member 2

cid transporter 1

cid transporter 1

cotransporter 4
cotransporter 4

characterized protein
characterized protein

l-CoA dehydrogenase

pressor 2

member 1
member 1

ie methyltransferase
ie methyltransferase

ne protein 3
RGD1566169_predictedUncharacterized protein

ent protein 3

ne protein 3

ed protein
atase-interacting protein 1

omains protein 3

type II-alpha regulatory subunit

ssed protein
ssed protein

ember 3

e 4

e 4

|

|

|

itein CASK

itein CASK

itein CASK

itein CASK

itein CASK

itein CASK

:ein 1

:ein 1

:ein 1

rit beta

og

ing protein 2

er 14

rotein 2

ubunit A-like 1

protein 2
se-2
se-2
se-2

ng protein 27
ng protein 27
51
rotein 4
peptide 58
peptide 58
peptide 58
peptide 58

osphatase O
osphatase O
nase
nase
rotein 8E
FAO3

RGD1566226_predictedUncharacterized protein
e CWC27 homolog
ulatory subunit beta
ulatory subunit beta
ulatory subunit beta
x subunit 1B
itase 1
2

ubunit

dase 3

dase 3

dase 3

rotein kinase kinase 2

rotein kinase kinase 2

rotein kinase kinase 2

rotein kinase kinase 2

rotein kinase kinase 2

omain-containing protein 3

e

: 1

: 1

: 1

: 1

5

5

5

13 (RGD1312026)

ated potassium channel protein 3

on factor ATF-6 alpha

2

2

atase 6 catalytic subunit

form 1

form 1

form 1

pendent dioxygenase ABH6

pendent dioxygenase ABH6

ase AER61

rotein 8C

ein RTF1 homolog

ein RTF1 homolog

ein RTF1 homolog

enzyme 2 (Uba2)

enzyme 2 (Uba2)

.9 (Predicted)Uncharacterized protein

1e-rich protein 2

1e-rich protein 2

02 (RGD1306839)

mily member 6

mily member 6

mily member 6

mannosidase-like 2

C2

C2

C2

C2

C2

C2

stein 1

stein 1 homolog

se 1

se 1

se 1

homolog

homolog

homolog

homolog

.

.

in

ase RNF217

')

')

tor DBS

tor DBS

tor DBS

tor DBS

γ-receptor type 12

γ-receptor type 12

nscription factor

nscription factor

kinase

kinase

kinase

kinase

family B member 1B allele A

racting protein 4

racting protein 4

racting protein 4

racting protein 4

racting protein 4

racting protein 4

racting protein 4

ctor 146

rotein 2

rotein 2

rotein 2

ε factor
ε factor
omolog

RGD1562310_predictedUncharacterized protein
e

subunit RPB9

11

11

11

11

ima Fc region receptor III

repeats protein

repeats protein

repeats protein

1

1

cription factor

cription factor

cription factor

cription factor

cription factor

rotein

rotein
rotein
se 3

B
B
taining protein
taining protein

actor 2-alpha kinase 4
actor 2-alpha kinase 4

lehydrogenase
lehydrogenase

)
)
)
)
)
)
)
)
)
)

)

)

)

kinase kinase 1

kinase kinase 1

34

on stimulator

on stimulator

osphatase mu

osphatase mu

ium channel subunit alpha-1A

ium channel subunit alpha-1A

ium channel subunit alpha-1A

ium channel subunit alpha-1A

nger 2

nger 2

tein 146

or receptor 1

protein kinase kinase 7

protein kinase kinase 7

ein 16

ein 16

ein 16

ein 16

ase
it 3

n stimulator-like 1
n stimulator-like 1
IO3

subunit gamma-2
subunit gamma-2

;

;

;

1

1

1

1

or

or

or

or

or

or

or

se 1

WNK1

WNK1

WNK1

anscription subunit 27

{ 3

{ 3

{ 3

{ 3

f transcription 4

f transcription 4

otransferase

otransferase

otransferase

otransferase

eta

eta

eta

rotein 104

rotein 104

rotein 104

rotein 104

rotein 104

rotein 104

nine-protein kinase 4

er potassium channel 2

er potassium channel 2

log

log

log

rel gamma-2 subunit

ated protein type 1

ivator 1

ivator 1

ivator 1

ivator 1

4

4

n 2

n 2

29

ence 1 homolog

ence 1 homolog

ence 1 homolog

ence 1 homolog

ence 1 homolog

ig protein 2

ig protein 2

ig protein 2

ig protein 2

ig protein 2

ig protein 2

ig protein 2

2 isoform a

2 isoform a

2 isoform a

2 isoform a

2 isoform a

2 isoform a

mone receptor

mone receptor

mone receptor

mone receptor

mone receptor

rotein 148

n 55LHAL tetrapeptideGPIPIRRH peptide

n 55LHAL tetrapeptideGPIPIRRH peptide

n 55LHAL tetrapeptideGPIPIRRH peptide

n 55LHAL tetrapeptideGPIPIRRH peptide

FNNI3K

n 71

rotein 6

rotein 6

DCLK3

ining protein T1
ining protein T1
ining protein T1
ining protein T1

x protein 3

ing protein T2
ing protein T2

tein 13

tein 13
