

Non-LTR retrotransposons revealed in the Celera release 1 sequence

Chr – chromosome (for some elements from “small” sequences chromosomal location might be determined but indicated as unknown (?) in the tables)

Cyt – cytological localization interpolated from GenBank annotations

Acc – accession number preceded by a chunk part (sequences were processed in chunks of 3000000 nucleotides)

S – strand of Acc matching to element

Coordinates – coordinates of sequence from Acc chunk matching to element. Actual coordinates of the sequence in accession are calculated as (coordinates in chunk)+3000000*(chunk part)

Element – part of full-length element matching to Acc chunk

Len – length of match

Type – type of element truncation: **F** – full-length element; **5'** – 5' truncated; **3'** – 3' truncated; **5'3'** – truncated at both ends; **?** – unfinished

D – length of target site duplication

5' flank – 10 nucleotides of 5' flank of the element

TSD – sequence of target site duplication

Start - 5' flank – 10 nucleotides of the element start

End – 20 nucleotides of the element end

3' flank – 10 nucleotides of 3' flank of the element

BS

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank
2L	34A-34A	2_AE002690	+	2277439 2279766	2796-5122	2327	5'	6	ACTTGAACCT	AGTAGG	CCATATGCC	AAATAAATATATAAAAAAAAA	AAATATTTTA
3L	73A-73A3	1_AE002602	-	751038 756169	3-5124	5122	F	14	CAATTGAACCT	AAACGTTTTGCCGA	GTCGCAATC	AAATATATAAAAAAAAAAAAA	CTCATGCACA
2R	42A10-42A10	0_AE002769	-	154863 155438	4550-5124	575	?	0	NNNNNNNNNN		CTGAAAGCTA	AAAAAAAAAAAAAAAAAAAAA	CGGCCCA
2R	42A10-42A10	0_AE002769	-	159119 159782	1-659	659	?	0	ACGGCCAGC		GAAGTCGCAA	AGAAGATAATCTCAGCGATG	NNNNNNNNNN
?	?	0_AE002909	-	6393 7593	3-1196	1194	.3'	0	CAAGCGCAG		AGTCGCAAT	CACCTTATCAATGCTGACAG	GCATTTTGT
3L	75C2-75C1	0_AE002602	-	1772676 1777752	2-5122	5121	F	12	ATTTCCATTT	AGTTAATTGCAA	ATAAGTCGCA	AAATAAATATAAAAAAAAA	TCAGGAATGT
?	?	0_AE003029	+	6345 7952	3261-5122	1862	5'	0	TTTCCCCTGG		TCAAACATCA	AACAAGAAATATAAAAAATA	GTGACAGATT
2L	38B5-38C	5_AE002690	-	84431 85579	3447-4592	1146	5'3'	0	AGCATCAGCC		ATCATCCAGA	GTTCGCCAGCTACACCACC	GGAGCAGGG
2L	38B5-38C	5_AE002690	+	87326 87563	2538-2774	237	5'3'	0	ATTGAGCGCT		TCGCAACTGA	CTTGCAGACGTGCGATTGCA	TCTCAAGACC
2L	39C3-?	5_AE002690	-	1283543 1283943	4722-5122	401	5'	12	TTACTCTGTAG	AGTAAAGGGTT	ACCCATTTCA	AAATAAATATATAAACAAA	TACTAAATTC
3R	92E-92E2	4_AE002708	+	732410 733157	4373-5124	752	5'	13	AACGACTTGT	AATACCTGTAATA	TATGGAATTT	TAAATAAATATATAAAAAA	AAATGCCTTG
3R	87A10-87A7	1_AE002708	-	1109009 1109251	4882-5124	243	?	0	NNNNNNNNNN		CAGTATACAT	TAAATATATAAAAAAAAA	AATCTTTTGA
3R	87A10-87A7	1_AE002708	-	1113374 1113878	3-502	500	?	0	TCTTTTGTAG		AGTCGCAAT	TAACTCAAAGCAGTAGCGTC	NNNNNNNNNN
3L	65E-65D4	4_AE002602	+	1249072 1249627	4566-5121	556	5'	0	GGGTTTTAGT		GAAGACTTTT	AAATAAATATATAAAAAA	GTGAAGACTT
X	16F5-16F7	2_AE002593	-	1366405 1366875	4653-5123	471	5'	12	ATTTACATTT	AGAATACAAGGC	TCCACTGCGT	AAATAAATATATAAAAAA	AAACCATAAT
3R	90A-90A	3_AE002708	+	528070 528459	4736-5124	389	5'	0	AAACTACTGT		TTTCTAAGTT	AAAAAAAAAAAAAAAAAAAAA	GTTACTGAAT
X	7E2-7F	2_AE002566	+	2160628 2160950	4802-5124	323	5'	11	CTCTAAATGC	ATTGTTTAATT	TTTCGTGATC	ATAGTAAAAAAAAAAAAAAAA	GATTCTCTGC
?	?	0_AE003078	-	301 635	7-662	656	?	0	TAACCGTTGT		GCAAATCTGC	AAGATAACTCAGCGATGCT	Gnnnnnnnnn
?	?	0_AE003132	-	12855 13083	4612-4838	227	5'3'	0	GGAGCAATGC		AATAAGCAAT	CACCTGTGGAAGAACAGATG	GTAGAAGTTA

Full-length elements: 2/0
 5' truncated elements: 5/3
 3' truncated elements: 0/1
 5'3' truncated elements: 0/3
 Unfinished elements: 5
 Total number of elements: 19
 Total length of elements: 22761
 TSD lengths (min/max): 6/14

Doc

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank
3L	76C-76C	0_AE002602	+	549830	554566	1-4719	F	11	AAATATAAGT	AGCTTTTGTC	ACATTCGGCA	AAAAAAAAAAAAAAAAAAAA	TTCGCCAG
3L	76C-76C1	0_AE002602	+	581258	585990	1-4715	F	8	TATTGGTCAA	GAAATTTG	TATTCGGCAT	AAAAAAAAAAAAAAAAAAAA	CCTTTACTC
3L	76A-76A	0_AE002602	+	1083265	1084589	3404-4719	5'	5	TTTGACCGTC	AAGATAAAA	AAAGATAAAA	AAAAAAAAAAAAAAAAAAAA	GGTAGCAGCA
3L	75C2-75C1	0_AE002602	-	1696967	1698890	2801-4719	5'	11	AATCTGTTTT	AAAAATGATAG	AGCGCGTGGT	ATTAAAAAAAAAAAAAAAAA	GTTTTTCAGA
2R	51A2-50E4	2_AE002787	+	329967	334693	1-4719	F	13	TTCAAATGCC	AGAAGCTTTATG	GTTCGGCATT	AAAAATTAAAAAAAAAAAAA	CATTTGGTTT
2R	31F2-49E6	2_AE002787	+	1582112	1586841	1-4719	F	7	TAAGACTGCT	GACTGTG	CCACATTCGG	AAAAAAAAAAAAAAAAAAAA	GTGTCTGCC
2L	33F1-33F1	2_AE002690	-	1778421	1778841	1-4715	F	13	AATTCACTGT	ATTTATAGCAATT	CGGCATTGCT	ATTAAAAAAAAAAAAAAAAA	AAATGTGATA
2L	34E-34C	2_AE002690	+	2441010	2445744	1-4719	F	6	AAAAAGCGTT	GGGAG	CGTTCGGCAT	AAAAAAAAAAAAAAAAAAAA	TAAGTAAATG
2L	34D4-34D1	2_AE002690	-	2789082	2790133	3671-4719	5'	13	ACCGCGACAC	AAATCAAACCACC	ATGGACTTTT	AAAAAAAAAAAAAAAAAAAA	TCAAATAAAG
3L	79A-79A4	0_AE002647	+	1407868	1412601	1-4717	F	11	TGATCAACGC	ACTGTTACCAC	CGTTCGGCAT	AAAAAAAAAAAAAAAAAAAA	TCCGGCAACT
3L	79E4-79E	0_AE002647	+	2235719	2240455	1-4719	F	13	AGAGGAGCG	AACTTGGTGAGCA	CGGCATTCCA	AAAAAAAAAAAAAAAAAAAA	GGATGGGAGG
3L	79E-79F3	0_AE002647	+	2516855	2517932	3651-4719	5'	11	TTACAATTTT	AAATCAAAGG	CATTTGACAG	AAAAAAAAAAAAAAAAAAAA	TCGCTCTATG
3R	93A-93B2	4_AE002708	+	1080708	1085448	1-4719	F	14	GGTTTGATCC	ACAAAAACAACGGC	ATTGATTCGG	TAAAAAAAAAAAAAAAAAAA	GGCTTCCAA
3R	100D2-100D3	7_AE002708	+	2879265	2883994	5-4718	F	7	GATGAAACAC	AGATATC	ACAGTCTTCG	AAAAAAAAAAAAAAAAAAAA	CAATCAAGAG
3R	96A21-96A21	5_AE002708	-	1945604	1947916	2411-4719	5'	10	ATTTATGAGT	GAGAACGGTA	TCCCAGGGTA	AAAAAAAAAAAAAAAAAAAA	GTGAAAAAT
3R	96B5-96B1	5_AE002708	+	2142683	2147420	1-4718	F	11	ATGTGAATTC	GAGAAGTACA	CACATTCGGC	AAAAAAAAAAAAAAAAAAAA	GATTAGGATA
X	6A2-6A	2_AE002566	+	201267	206001	1-4719	F	13	CAGTCCAGTC	AAGATGATGCTGC	ATTCCGGCATT	AAAAAAAAAAAAAAAAAAAA	TCGGTTTGT
?	?	0_AE002841	-	5908	10645	1-4719	F	14	TTTGTATCCC	AAATTAGCGCCGC	ATTCGGCATT	AAAAAAAAAAAAAAAAAAAA	AAGGCAAGA
?	?	0_AE003091	-	4105	8836	1-4719	F	11	ATAAGTCGTT	AAGTACCATA	TATATTGCGC	AAAAAAAAAAAAAAAAAAAA	CTACTGAATC
X	12F1-12F5	1_AE002593	-	957289	962120	1-4719	F	12	TAAAAACAT	AGTCCGCAAAA	AAAAATTGCGC	AAAAAAAAAAAAAAAAAAAA	GACAAATTACG
3R	87E4-87F1	1_AE002708	-	2544540	2549361	1-4711	F	14	ATTTCTCGTC	ACCTATCCCTTCTT	TTTTGGCATT	AAAAAAAAAAAAAAAAAAAA	AAAAATATT
3L	65D3-65D1	4_AE002602	+	1461444	1463407	2758-4719	5'	3	CACTAAAGTT	ATG	AAATTATCTT	AAAAAAAAAAAAAAAAAAAA	TTGCAGTTAA
3L	65A-64F	4_AE002602	+	2194672	2196987	2403-4715	5'	5	GTTCATCGTC	TTGTG	AACTTTTTTAG	AAAAAAAAAAAAAAAAAAAA	TCGCTTGCCA
?	25D6-25E1	0_AE002690	-	400547	402868	2399-4719	5'	11	TTATCAACT	AAGAGAGCGAA	TTATCCCGCG	AAAAAAAAAAAAAAAAAAAA	CATTTTGGG
?	?	0_AE003003	-	22500	24423	26-1944	5'	6	AACCGTAAAG	TTGGC	GACGTGTTTT	TCTGTGGAACGCAAAATG	TCGCCACTGT
3R	84A5-84A5	0_AE002699	+	958757	960485	2991-4718	5'	8	AACTCTCAAT	AATCACGA	GCTCACAGAA	TAAAAAAAAAAAAAAAAAAA	AATCAATGCA
3L	67E4-67D5	3_AE002602	+	843856	846123	2416-4715	5'	11	TTAGTGTGTC	AAGAAGGAGAG	AAGGTCCCGG	AAAAAAAAAAAAAAAAAAAA	CAACACGATG
3L	67B10-67B1	3_AE002602	-	1865065	1867903	1886-4719	5'	11	TTTAGAGTTC	AGTTGAGCAGC	AGCTCACACA	AAAAAAAAAAAAAAAAAAAA	TCAGTCCGCTG
3R	88E-88E8	2_AE002708	-	1272754	1276563	1012-4712	5'	12	AATGGGTTAT	AGAGGTGTTTTG	TTTTCAGACCA	AAAAAAATTAAAAAAAAAAA	TTGCTTTGTG
3L	73A3-72F2	1_AE002602	-	833314	835608	2439-4719	5'	7	TGCAATTTCAC	TTTTTCA	ACATCAACAG	AAAAAAAAAAAAAAAAAAAA	TTGTTTTCCAT
3L	70F2-70E1	1_AE002602	-	2558211	2558211	867-4719	5'	13	AAATTTGTTT	AGTTAGTAGTTAG	GCCTCCACCA	AAAAAAAAAAAAAAAAAAAA	ACCTTCAAGC
?	30A-30A7	0_AE002690	-	1264622	1269448	1-4719	F	12	TGAAGTTAAC	ATCTCAATGAC	CGGCATTCCA	AAAAAAAAAAAAAAAAAAAA	GAAAGAACTT
2L	?	0_AE003176	-	15000	18710	1118-4718	5'	12	AACTCGAACC	ACATCAATCCC	CCAGCAACAG	AAAAAAAAAAAAAAAAAAAA	TATGCTCCTA
3L	68D3-68C8	2_AE002602	-	2535017	2539839	4-4718	F	11	AAATTTGATTT	GATTTGAAGAA	TCAAATCTTC	ATAAAAAAAAAAAAAAAAAAA	CACTGTATTT
3L	63B8-63C6	1_AE002584	+	255932	256361	4290-4719	5'	12	CATGGCGAATC	AAATAGCAAAGG	AAACGGCTCC	AAAAAAAAAAAAAAAAAAAA	CGAGGCAACA
?	?	0_AE003403	+	5907	7116	3506-4718	5'	11	TTTAGGCGAC	AAAAATATTGC	GATCGAACAG	ATAAGTTAAAAAAAATAA	TGCCCTTGC
3R	84F2-84F6	0_AE002708	+	493188	493972	3938-4714	5'	5	TTGGTGTGGC	AGGGC	TGTTTCCAAG	AAAAAAAAAAAAAAAAAAAA	CGTGTGCGCA
?	?	0_AE003267	-	688	866	3712-4045	5'	10	ATGTTAAAAA	TAATCAAACA	TACATAAGCT	AAAAAAAAAAAAAAAAAAAA	AAGCTGCCCG
3L	76B6-76B	0_AE002602	+	893176	893784	4119-4719	5'	0	AACGGTACCT		TAGGAGTACA	AAAAAAAAAAAAAAAAAAAA	TGGCGGTGG
3L	75B5-75A	0_AE002602	-	2417395	2417672	6-283	?	0	ATTAATTTAT	278	TTCCACAGTC	TCTTTACAACCGCACAAATG	NMNMNMNMNM
2L	32E-32E1	2_AE002690	-	254296	254772	1-477	?	0	AACCTAAAT		CGGCATTCCA	GGGCCAAACGACCGTCCCGG	NMNMNMNMNM
2L	33F1-33F1	2_AE002690	+	1824790	1825216	3269-3695	5'	0	CCAATATGCT		ACACCGGAAA	CGCCTAATGTTTAAAAATTA	AAACANMNMNM
2L	33F1-33F1	2_AE002690	-	1828001	1828568	4157-4718	5'	0	NMNMNMNMNM		CACATTTGAG	AAATAAAAATTAAAAAAAAA	TCCTTTCTTCA
3L	33F1-77B3	0_AE002647	+	7202	8444	3211-4708	5'	6	GTAGAGATAT	TGAAGG	GAGTGGCAGG	TAAGCAAAACATGAAAAAAA	CTAGTTTTCC
3R	92D1-92E	4_AE002708	-	474298	474662	1227-1591	5'	5	AAATTTAAAA	AAGGA	CAACTTTGAA	GAAACAGCGCGCGGCACACC	TCAGCTACCC
X	3D5-3D	1_AE002566	+	362539	362833	1113-1408	5'	3	AAAGCGCAG		ATTGATGCAA	CCGCTACTATACACTGAAATC	TAATCTAGGA
X	3D5-3D	1_AE002566	+	377038	377468	4183-4617	5'	3	GAGTGTCCGC	GGG	TAGACTAAAA	TGTTAGTCTCTTAAGTAAAA	CAAATTCAAA
3R	94C8-94D1	5_AE002708	+	96451	96996	1-546	?	0	AGTTGGCATT		CGGCATTCCA	CACAACATCAACTTCGTGAG	NMNMNMNMNM
3R	96C1-96C	5_AE002708	-	2540093	2540680	4136-4719	5'	0	NMNMNMNMNM		AGGCGGTCCA	AAAAAAAAAAAAAAAAAAAA	CAACATCTTC
3R	96C1-96C	5_AE002708	-	2543999	2544528	201-722	5'	0	GAAATCAACN		AGGAAATGAT	AGCTCAGCTCCTCAAACAAAT	NMNMNMNMNM
2L	36E1-36E1	4_AE002690	+	1377269	1377845	1-576	?	0	AACTTAAAGA		CGGCATTCCA	ATTTATTCGCTGGCGCAGCTG	NMNMNMNMNM
2L	36E1-36E1	4_AE002690	+	1381950	1382273	4397-4719	5'	0	NMNMNMNMNM		AACGAAAACA	AAAAAAAAAAAAAAAAAAAA	CCCTAAAGAC
2L	37D2-37D2	4_AE002690	+	2313484	2313896	1-413	?	0	TTTTGCAGTT		CGGCATTCCA	TGCCTGCTTCGGCTCAACAG	NMNMNMNMNM
2L	37D2-37D2	4_AE002690	+	2322671	2323265	4129-4719	5'	0	NMNMNMNMNM		CTTCGACAGG	AAAAAAAAAAAAAAAAAAAA	ATTTTTTGTG
2L	38A1-38A1	4_AE002690	+	2644838	2645303	4253-4719	5'	0	NMNMNMNMNM		CTTCTATCAA	AAAAAAAAAAAAAAAAAAAA	AAATTTTTTC
3L	67C-69	3_AE002602	+	1732182	1733805	3100-4719	5'	11	TTTGTAGGTT	AAAAGTACTTT	ACAAAATGTA	TAAAAAAAAAAAAAAAAAAAA	TAAGCTGAAG
2R	42A2-41F9	0_AE002769	+	352937	353465	1707-2237	5'	0	AAGTGCACCT		CTACTCGGGA	CCGCTATACTTGCCCCCCCC	CACCACACC
?	?	0_AE002910	+	29055	29944	1729-2608	5'	0	TCGGGAGAA		CAGAAAATAA	AGCAGCCCTCAGCGGTGACA	GGCAACAGGT
2R	43F2-43E6	4_AE002787	+	807223	807768	1-546	?	0	ATTCGGCATT		CGGCATTCCA	CACAACATCAACTTCGTGAG	NMNMNMNMNM
2R	43F2-43E6	4_AE002787	+	811253	811693	4274-4714	5'	0	NMNMNMNMNM		AAACCTATCT	ATTAAAAAAAAAAAAAAAAAAA	GTCTGAAAAT
?	?	0_AE003322	+	35912	36973	3658-4716	5'	0	AATCAGCGGG		TGACCGAGTC	TAAAAAATTAAAAAAAAAAAA	CTAGGTTCTC
2L	28D5-28D	1_AE002690	+	62407	62891	4236-4719	5'	0	NMNMNMNMNM		GTCTGGAGTT	AAAAAAAAAAAAAAAAAAAA	CCAAAACCTAA
?	?	0_AE002751	+	31980	32257	4435-4713	5'	0	TTTTTTGTC		AATCGATAGA	AAAAACAACAACAACAACA	CTCTTTGTGA
?	?	0_AE002751	-	75672	76877	3515-4716	5'	0	AAAAAGCGGA		AATACAATAC	TTAACAAAAAACAACAACA	TGTTGCTAAT
?	?	0_AE003029	-	21073	21799	842-1567	5'	0	TTGAGATTTG		ACCGCACAAG	AAGACCCCTTTAACAAAACG	CGGAAATCA
3R	90C-90D1	3_AE002708	+	1272591	1273199	4119-4719	5'	0	TAACGTACCT		TAGGAGTACA	AAAAAAAAAAAAAAAAAAAA	GTAGGTTTFT
3L	64C5-?	1_AE002584	+	2017804	2018356	1-554	?	0	AACTTAGACT		CGGCATTCCA	TCACTTCGCGCGCCCAA	NMNMNMNMNM
3L	64C5-?	1_AE002584	+	2022388	2022900	4207-4719	5'	0	NMNMNMNMNM		CTGGCTCATA	AAAAAAAAAAAAAAAAAAAA	CTTAGATTTA
2L	35A3-35B1	3_AE002690	-	491717	492160	4272-4719	5'	0	TAAATTTTGT		TAAAAAACA	AAAAAACAACAACAACA	GTTAAAGACT
2L	35A3-35B1	3_AE002690	-	494597	495190	2732-3327	5'	0	TACGAAGAAA		TCTGGTTTAA	CTTCACATCTGCTGTTGTT	NMNMNMNMNM
2L	36B2-36C2	3_AE002690	+	2928594	2929053	1-460	?	0	TTTTTATCT		CGGCATTCCA	ACCCCGCTCCTTCGACGCG	NMNMNMNMNM
?	?	0_AE002992	-	9063	9393	3749-4081	5'	0	TTCAGCACT		AGATGAATTC	CTGCCCGCCCTTGCTCAAT	GCCCTCAGC
?	?	0_AE002992	-	10841	11078	1821-2055	5'	0	CACACAACA		ACCATCATTC	AACTTCCAATACCGGATA	TAAAGGCCCA
?	?	0_AE002693	+	2003	2989	2846-3983	5'	0	GGTGCACCT		CAGTCCAATA	CCGACACTTAAGCTGATAAC	CTTAACTCTG

2R	46A-46B1	3_AE002787	+	1960099	1961439	3365-4708	1344	5'	0	CTCATCTGTT	TGGATGTGGT	CAAAAATGTGAAAAA	CTTTGTTAGC
?	?	0_AE003027	-	301	647	1-647	647	.	0	AAGTCGGATT	CGGCATTC	GAAGAATCAAAACAA	Gnnnnnnnnn
?	?	0_AE003048	-	15565	16095	3111-3647	537	5'3'	0	CTGATCATCT	TATTTCAACC	AGACGTTGCAACAGC	ATAGAGTATG
2L	22A4-22A3	1_AE002638	+	203048	203770	1776-2487	712	5'?	0	AACAAAAACT	GAAGCTATGA	ATCGACTTCGAGTT	NNNNNNNNNN
2L	22A4-22A3	1_AE002638	-	312719	312990	1923-2193	271	5'?	0	TCTGAACTTG	CTACGTGGAA	ACATCTATCAACAT	GGATNNNNNN
?	?	0_AE003090	+	26902	27487	2-585	584	?	0	CCTCAATTAT	GGCAATTC	TGTGCCAGCTGTAAT	NNNNNNNNNN
?	?	0_AE003064	-	21480	21716	4188-4718	531	?	0	nnnnnnnnnn	TTAAAGCAAG	AAAAAAAAAAAAAAAA	G7AAAGATCT
?	?	0_AE002962	+	372	870	26-524	499	5'?	0	GAGATTCGCG	GACGTGTTTC	CAGTGACCTCACTG	NNNNNNNNNN
?	?	0_AE002743	-	34346	34612	3400-3665	266	5'3'	0	AAGCAAGGAT	CGCTCAGGAT	CGCTCAGGATTTG	CAGACACTAA
?	?	0_AE002743	-	82056	83119	3653-4716	1064	5'	0	AATGAAATCA	GCATTTGACC	TAAGTTAAAAA	TAAACTTAA
?	?	0_AE002639	-	10294	11013	126-853	728	5'?	0	TCTTATTTTC	TTTTCTGACTA	CAACGAAAAA	NNNNNNNNNN
?	?	0_AE002782	+	3920	4361	1-442	442	?	0	AATTTATTTT	CGGCATTC	GAGAGACCCGCT	NNNNNNNNNN
?	?	0_AE003173	-	10559	11125	2999-3571	573	5'3'	0	CTCGTGTGG	AAAGACCACA	AACATGGAGCG	CGAGCACAT
?	?	0_AE002770	+	301	334	4387-4719	333	?	0	nnnnnnnnnn	TACCTTCGAA	AAAAAAAAAAAA	AAATTGCAAT
?	?	0_AE002873	-	1372	1466	4174-4570	397	?	0	nnnnnnnnnn	GACGCACCTC	ACCAACCAGCC	TTTGACGGG
?	?	0_AE002687	-	8213	8519	3280-3589	310	5'3'	0	ACTTGAGCCG	GCTCGTTAAA	AGGCCAATCGAA	TTTTGGATT
?	?	0_AE003032	+	29549	29694	3515-3950	436	5'?	0	AAAAAGCCGA	AATACAATAC	ATGCCCAGCAA	AGCAACTTgn
2R	54C-54B	1_AE002787	-	252102	252621	4205-4718	514	?	0	NNNNNNNNNN	CACCTGGCTCA	AAATAAAAAA	TTGTTTAGAC
?	?	0_AE003351	+	301	378	4257-4637	381	?	0	nnnnnnnnnn	ATATAACTCC	TTAGTTAGTTT	AAAAATGCCAA
?	?	0_AE003253	+	23803	23716	26-239	214	5'?	0	GAGATTCGCG	GACGTGTTTC	ACATACGTTCT	nnnnnnnnnn
?	?	0_AE002952	-	14500	14408	4510-4717	208	?	0	nnnnnnnnnn	ACTAATCCGA	AAAAAAAAAAAA	TTCAACTCA
?	?	0_AE002832	+	743	1081	4373-4706	334	5'	0	CAGATTCGGA	CAGATTCGCT	AGCAAAAAAT	GTGTGGCAT
X	5A6-5C3	1_AE002566	+	2535884	2540620	1-4718	4718	F	0	CACGTAATTT	CGGCATTC	AAAAAAAAAAAA	TATATTGTAT
2L	36E4-36F	4_AE002690	+	1550895	1553697	1924-4715	2792	5'	0	AAAAGTACAA	TCTGTGGAAC	AAAAAAAAAAAA	TGATTTCAAG
?	?	0_AE002781	+	7219	9577	2335-4714	2380	5'	0	TGTGTGAACA	GGGATCTCGA	AAAAAAAAAAAA	TTTTTTGGG
2R	41F11-41C	0_AE002769	-	991680	993667	2944-4080	1137	5'3'	0	CACACTAAG	ATACATCGAG	TTCCCGCCTTG	GGTATTCATC
2R	41C-?	0_AE002769	-	1285880	1287085	3329-4588	1260	5'3'	0	GCCTTCGAC	AACCTCTATC	AAATTTGTTAG	CTTTTACTAT
?	?	0_AE003322	+	38378	39058	3963-4719	757	5'	0	CAGTGGGAAG	GCCACACAAA	AAAAACAAAAA	CATTTTGTGG
3L	71A2-70F1	1_AE002602	+	2457086	2457987	2784-4607	1824	5'?	0	GCATTTCTTT	TCAAACTAA	TGAAAAAATA	NNNNNNNNNN
?	?	0_AE003029	-	18007	19374	3261-4687	1427	5'3'	0	CCAAAAATC	ACCTGGTGA	AAAGAGAGAT	TTGATCTTT
2L	38B5-38C	5_AE002690	-	261707	263044	2461-4718	2258	5'	0	TTGGTTTATT	ACACCTGATC	AAAAAAAAAAAA	GTTATCTCTT
?	?	0_AE002734	+	13164	14953	1298-3665	2368	?	0	NNNNNNNNNN	CTTGCTCATC	CGCGCAGGCA	CTAAGACCTT
?	?	0_AE002734	+	16185	16415	4096-4333	238	5'3'	0	GAATAACATA	ACAAACCGAC	CGTCCATCAGT	TGAGAACCAT
?	?	0_AE002612	-	33794	34123	4390-4719	330	?	0	NNNNNNNNNT	CCTTCGGAAC	AAAAAAAAAAAA	AAAAATAAAT
?	?	0_AE002612	-	34176	34813	1-638	638	?	0	AATCGGGATT	CGGCATTC	CACGTAAGAGA	NNNNNNNNNN
?	?	0_AE002903	+	7161	8578	3129-4577	1449	5'3'	0	CTTAAAAAAG	CCACTAGCTC	GCCCAGCATT	TTTCAATATT
?	?	0_AE003217	+	12829	13180	3186-3536	351	5'3'	0	TACTCTCCCG	CCTTTTAACT	CGCCTTTGAA	ACTGCACAGC
2L	36F-36F7	4_AE002690	-	1603146	1607969	1-4719	4719	F	0	TTCGTTCATT	CGGCATTC	AAAAAAAAAAAA	CAAAATGGCT
X	17E9-18C1	2_AE002593	-	2232808	2237626	3-4719	4717	F	0	TTTAAATAGT	GCATTCACA	AAAAAAAAAAAA	CTGGTAATAT
3L	65D5-65D2	4_AE002602	-	1383785	1388611	1-4718	4718	F	0	CTGTTACATT	CGGCATTC	AAAAAAAAAAAA	CTGGTATTCT
3R	65D5-84D4	0_AE002699	-	133292	138102	10-4719	4710	F	0	GGATAACATA	ACAGTCTTCG	AAAAAAAAAGTT	CTATTTGTTA
2R	41F11-41C	0_AE002769	-	990835	991314	3600-4080	481	5'3'	0	GCAGGGGCTA	CTGCTTTGAA	TTCCCGCCTTG	GGTATTCATC
2R	41F11-41C	0_AE002769	+	1209234	1210389	3520-4705	1186	5'	0	AATTCCTCGC	ACTCCCATCG	AAATTAACACT	CGCCGGCCT
2R	44D-44C1	4_AE002787	-	278860	283682	1-4713	4713	F	11	GCAGCGGCT	CATTCCGCAT	AAATTAACAA	GGACCAAGC
?	?	0_AE003119	+	3069	5455	829-3994	3166	5'3'	0	CGGATTCGTC	AACCGAACAA	CTGTAGAACG	T7AAACAAAC
?	?	0_AE003083	+	928	1481	1016-1749	734	5'3'	0	ACACCAAATT	CNAATTATC	CCGAACAAT	AAATCATCGT
?	?	0_AE003083	+	2258	3659	3085-4709	1625	5'	0	CTCTGGCACC	TGTTTTCGCG	AAAAATCTT	GATTTTTCG
?	?	0_AE002894	+	6230	8748	1729-4698	2970	5'3'	0	ATTTACTGCA	CGAAGAATA	GCAAAATAA	TTGTTATTAT
?	?	0_AE002989	+	11310	11563	414-660	247	5'3'	0	GCTTTTGCTC	TCGCGGAGCG	AAAGCAGAA	AGAAATCCGC
?	?	0_AE002989	+	11607	11912	1575-1873	299	5'3'	0	GGTTTAACTG	ATAGCAAATA	ATCTTCAAA	GGCTTCCCTA
?	?	0_AE002989	+	12459	12777	3219-3536	318	5'3'	0	ATTATGTGAA	TTAGCAAAGG	GAACCATCG	GGAAATCCCT
?	?	0_AE002872	+	13501	14692	3357-4645	1289	5'3'	5	GTCAATAAAG	CTCAAACTG	AAGACTAAG	AACATGCAAA
2L	39F3-39E	0_AE002725	-	95163	95766	94-1131	1038	5'3'	0	CAGTGCAGTG	AAAGTTGAAC	CATTGTAGCA	TCTTTCAGAC
?	?	0_AE002754	+	301	545	4157-4715	559	5'	0	CTCGCCTTCT	ACCTAGAATC	TTAAAAA	TTTTTCTAGA

Full-length elements: 19/5
5' truncated elements: 20/16
3' truncated elements: 0/0
5'3' truncated elements: 5/25
Unfinished elements: 38
Total number of elements: 128
Total length of elements: 218491
TSD lengths (min/max): 3/14

F

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank
2R	42A2-41F9	0_AE002769	+	353493	355114	2610-4242	1633	5'	0	GCAGTATTAG	AGCTCACAAA	AATTA	TTGCTTATCC
2R	41F11-41C	0_AE002769	+	695417	698155	1-2732	2732	3'	0	CTCGTCATCG	CTGCACCCGC	CTAAGAAAT	CTTCTCGGA
2R	41F11-41C	0_AE002769	+	700272	704510	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAA	TTACTATTT
2R	41F11-41C	0_AE002769	-	716685	718889	1-4240	4240	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAA	GGAACTTTAT
2R	41F11-41C	0_AE002769	-	725757	727557	2439-4233	1795	?	0	NNNNNNNNNN	ACGATCAGCG	GTAATAA	GTGTGGACA
2R	41F11-41C	0_AE002769	+	929298	929684	329-724	396	5'3'	0	TGCCACTGAA	TCAGTCGATA	AAACAAAGT	ATCCACCTTC
2R	41F11-41C	0_AE002769	+	946401	948791	799-3885	3087	5'3'	0	GTCGCCTCTA	ACGCTTTTGT	ACAGATTG	GAAAGATCA

2R	41C-?	0_AE002769	+	1334187	1334651	3766-4239	474	?	0	NNNNNNNNN	GCTCATCAAC	AAAAAAAAAAAAAAAAAAAA	TGCGTGCTA
X	12E5-12F1	1_AE002593	-	596108	600356	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TTTAAAACAT
X	20A5-20	0_AE002629	-	152742	156987	1-4236	4236	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TTTATTATAC
2R	43B2-42D1	4_AE002787	+	1473469	1477718	1-4241	4241	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	CTTTTAAAGT
2L	33F1-33F1	2_AE002690	+	1766365	1770610	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	TAAAAAATAAAAAAAAAA	TTTTTTCTTT
2L	33F1-33F1	2_AE002690	+	1824790	1825221	2780-3211	432	5'?	0	TCCAATATGC	ACACCGGAAA	CTAATGTTTAAATTAACA	NNNNNNNNN
2L	33F1-33F1	2_AE002690	-	1828001	1832187	623-4235	3613	5'.	13	TTATTCAAIT	TTAGCCAAA	TAAAATAAAAAATAAAAA	ATTGCCAAT
2L	34D4-34D4	2_AE002690	+	2597230	2601484	1-4238	4238	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TTTCTCTT
?	?	0_AE003098	-	5107	9359	1-4241	4241	F	0	CTCGTCATCG	CTGCACCCGC	TAAAAAATAAAAAAAAAA	GATTATGGTC
3L	76B6-76B	0_AE002602	+	889533	893785	1-4241	4241	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TGGCGGTGG
3L	75C2-75C1	0_AE002602	-	1786169	1786521	831-1183	353	5'?	0	GAAAACGAC	TTAAGTCACA	TTTAAATTCAGGTATGCGCC	NNNNNNNNN
3R	35E-35F	2_AE002708	+	412636	416892	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	GGATAAGAGT
3R	88E-88E8	2_AE002708	-	1394323	1398571	1-4242	4242	F	3	GCCTGTCAT	TGCAACCCGC	AAAAAAAAAAAAAAAAAAAA	GATGGAAAAG
3R	88F-89A5	2_AE002708	-	1967778	1969981	1-4237	4237	F	0	TCGTCACTCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	CTTGAGAAGA
3R	88F-89A5	2_AE002708	-	1972392	1972881	1-486	486	.3'	0	CTCGTCATCG	CTGCACCCGC	AGGACGACTACAGAAAAGTCA	TGCTGCCCGT
3L	62F-63A1	0_AE002584	+	2726046	2730281	19-4242	4224	5'.	35	CAACCAGAG	GCAATAAAGC	AAAAAAAAAAAAAAAAAAAA	CGCCTTATGT
ACTCTTCTTCATT													
2L	36B2-36C2	4_AE002690	-	243645	247893	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TTTTCTTTTG
2L	36D1-36D3	4_AE002690	+	659237	663495	1-4241	4241	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TTTGCAGCTG
2L	37D2-37D2	4_AE002690	+	2322672	2323266	3641-4237	597	?	0	NNNNNNNNN	CTGGCAGGC	AAAAAAAAAAAAAAAAAAAA	TTTTTGTCA
2R	37D2-57A4	0_AE002787	-	36684	37120	3805-4242	438	?	0	NNNNNNNNN	CTCCAGTTAT	AAAAAAAAAAAAAAAAAAAA	TTAACCAAT
2R	55A4-54F3	0_AE002787	-	2626718	2630659	295-4240	3946	5'.	0	AAAAGAGCAA	GATACATTC	AAAAAAAAAAAAAAAAAAAA	TTATTGTCTA
3R	90A-90A	3_AE002708	-	580119	581791	2632-4233	1602	5'.	11	AACGTAGTGC	TCCTATACT	AGTAAAAATAAAAAAAAA	ATCACTGAA
3R	90B2-90B3	3_AE002708	+	824831	825197	3875-4241	367	5'.	11	CATATATACA	ATCCCCCGC	AAAAAAAAAAAAAAAAAAAA	GACTCGGCGA
3R	90C-90D1	3_AE002708	+	1269456	1273201	503-4239	3737	5'.	0	ATTATATATA	ATATAAAATA	TAAAAAATAAAAAAAAAA	GTAGGTTTTT
3R	90D6-90E1	3_AE002708	-	1296039	1297562	2718-4242	1525	5'.	0	AAAGACATGT	AATTTGAATTG	AAAAAAAAAAAAAAAAAAAA	TCCTTAGGTT
3R	91B2-91C7	3_AE002708	-	1844526	1845001	88-562	475	5'?	0	ATACTAACT	AAATGGTAA	CAAGGGCTGCAAGTAGTCCT	NNNNNNNNN
3R	91F11-92A1	3_AE002708	+	2428825	2433081	1-4241	4241	F	10	AATTCACATT	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TGACAGTGGG
2L	22B-22C1	0_AE002638	+	2825781	2829535	503-4242	3740	5'.	0	ATTATATATA	ATATAAAATA	TTTTAAAAAAAAAAAAAAAA	TTCAACCAAT
2L	22A4-22A3	1_AE002638	+	197798	198167	3875-4240	366	5'.	0	CCATCCECC	AGAACATCA	AAAAAAAAAAAAAAAAAAAA	TGCTCTTGTC
2L	22A4-22A3	1_AE002638	+	201768	203619	1-1845	1845	.3'	0	CTCGTCATCG	CTGCACCCGC	CGCTAAACATACTACTTGGG	GATCGCGACT
2L	22A4-22A3	1_AE002638	-	309929	310275	3890-4236	347	?	0	NNNNNNNNN	GCAACCGTGT	AAATAAAAAAAAAAAAAAAAAA	TCTGAACCTG
2L	22A4-22A3	1_AE002638	-	312715	313017	1403-1702	300	5'?	0	TTGTTTCTTT	TGAAATAATAT	TCTATCAACATTCAGCTGGAT	NNNNNNNNN
?	?	0_AE003090	-	2916	5118	1-4236	4236	F	0	TCGTCACTCG	CTGCACCCGC	AAATAAAAAAAAAAAAAAAAAA	TTTTATGACA
3R	92D1-92E	4_AE002708	-	471099	474655	691-4242	3552	5'.	13	AAATGTAAAT	TTGAACCAA	ATAAAAAAAAAAAAAAAAAA	AGTAATTTGA
3L	79A-79A4	0_AE002647	-	1296061	1296335	3964-4238	275	5'.	12	GTATTCCTTT	AACTTAAGGA	AAGTAAAAAAAAAAAAAAAA	GTGTCGCCGA
3L	71A2-71A1	1_AE002602	-	2310696	2310942	3985-4231	247	5'x3'	11	CTTTTCATAT	CACACGCTTC	GCAAGTAAAAATAAAAAAAAA	AAAAAAAAT
3L	71A2-70F1	1_AE002602	+	2454831	2456256	1469-3245	1777	5'x3'	0	TCAAATGATC	CTAGCTCAAT	GCAACACAAACTTCTAAGT	GGGGGGCCAG
3L	71A2-70F1	1_AE002602	-	2456244	2457136	867-1757	891	5'x3'	0	CCAATCCTTC	GTAGCGTCG	GGCCCCCACTTTAGAAAGTT	GTGTGTCTT
3L	70E2-70D5	1_AE002602	-	2754664	2754889	4011-4234	224	?	0	NNNNNNNNN	TAGCGCAGG	AAAAATAAAAAAAAAAAAAA	CTATATCCTT
?	?	0_AE003217	+	3057	4778	371-2350	1980	5'x3'	0	CCAAAGGACA	AGAGGGTTTG	AGAGGAACAATACGCTCAGAA	CCGATGTATA
2R	60F1-60F1	1_AE002575	-	1384285	1387090	1-2793	2793	.3'	0	CTCGTCATCG	CTGCACCCGC	ACCTTATAACACCGGTGTGAT	AGGTTCAACA
?	?	0_AE003083	-	3561	5956	1854-4242	2389	5'.	0	AGTTTTGTTG	TTGTTGTTCC	AAAAAAAAAAAAAAAAAAAA	CCTAAGTGAT
?	?	0_AE003083	-	6239	7731	2377-4240	1864	5'.	0	CCCTTGTGTT	AAGAGACTAA	AAAAAAAAAAAAAAAAAAAA	TTCGGTTTCA
3L	70D6-70D3	2_AE002602	-	11779	16027	1-4242	4242	F	0	CTCGTCATCG	CTGCACCCGC	AAAAAAAAAAAAAAAAAAAA	TATCTGCAT
3R	96C1-96C	5_AE002708	-	2540088	2540680	3647-4241	595	?	0	NNNNNNNNN	AGCGGGCTCA	AAAAAAAAAAAAAAAAAAAA	TCTCGAAT
3L	66A4-2E1	4_AE002602	-	742104	742557	3789-4242	454	?	0	NNNNNNNNN	CAATCTGGAC	AAAAAAAAAAAAAAAAAAAA	ATTGCTTCAA
2L	28D5-28D	1_AE002690	+	62413	62899	3751-4241	491	?	0	NNNNNNNCTG	AGTTCAAAGC	AAAAAAAAAAAAAAAAAAAA	CTAAAACAT
?	?	0_AE002751	-	65332	66771	163-2565	2403	5'x3'	0	AGACTTGGAA	GACCGCTACA	CATAAGGAATTCCTTAAGCGG	TAGACAGAGC
?	?	0_AE002700	-	8437	10687	1-2901	2901	.3'	0	TTCCGCCGTTG	CTGCACCCGC	AAGAGATCGATCTTTAAGCGAT	CTTAATATCA
?	?	0_AE002909	+	8345	9394	1-1043	1043	.3'	0	CTCGTCATCG	CTGCACCCGC	AGAATGAACCGCGCCGGGGA	GTACAATCC
?	?	0_AE003350	-	11424	11683	3333-3591	259	5'x3'	0	TATAAACATC	GAGTACTTGG	TGCCCTTCGATCACTCTGAA	GCTTAAGGCT
3R	84F2-84F6	0_AE002708	+	493187	493972	3448-4231	784	5'x3'	0	TGGCAGGGCT	TATCCAAGCT	AAGTAAAAATAAAAAAAAAA	GGGCGGTTG
2L	35B-35B4	3_AE002690	+	1014543	1014955	1-411	411	.3'	0	CTCGTCATCG	CTGCACCCGC	ATTGGGAAAGATAGTSTAATA	ATTGTAATGC
?	?	0_AE002666	+	19436	19803	618-985	368	5'x3'	0	AAGTAAAGCT	AAGGGCATTG	CACAGCAAATACAGAGGCTC	CTTGCTTCTG
?	?	0_AE002666	+	23774	23853	2882-3246	365	5'x3'	0	TACTTTCAC	ACGATGGAAG	AAACCCCAGACTTCTAAGGTC	AGAAAAGTTG
?	?	0_AE002837	+	29153	29441	1315-1599	285	5'x3'	0	CGCTCCTCA	AATGTATAAA	TCACGGCATGGTAGAGCACA	TATATCATTA
?	?	0_AE003199	+	19139	20460	2772-4231	1460	5'x3'	6	CTGGAGTCAA	ATTCACCTTA	AAATAAACAATAAAAAAAAA	TCTGTGCAAG
2L	38B5-38C	5_AE002690	+	257134	257503	3875-4240	366	5'.	0	CCATCCECC	AGAACATCA	AAAAAAAAAAAAAAAAAAAA	TGCTCTTGTC
2L	38B5-38C	5_AE002690	+	261104	261707	1-602	602	.3'	0	CTCGTCATCG	CTGCACCCGC	GTTACGCCCGAAGAGATAACT	TTTTTTTTTT
2R	54C-54B	1_AE002787	-	252102	252621	3716-4235	520	?	0	NNNNNNNNN	CACCTGGCTCA	AAAAATAAAAAAAAAAAAAA	TTGTTTAGAC
?	?	0_AE003149	-	301	785	2587-3723	1137	5'?	0	TTTTATTCTA	CACCGCCACC	AAAGCAACTACTTACACTGGC	Tnnnnnnnn
?	?	0_AE002786	+	27120	27932	2874-3689	816	5'x3'	0	CCGAGAGAG	GATGGAAAAA	ACATCGAAGTCAAAGAACAC	GTGGAAAAAC
?	?	0_AE002992	+	8546	8788	1-244	244	.3'	0	TTCCCGGTTG	CTGCACCTC	CAACAATGAAGCGCCCGCAA	GGACGTGCCA
4	102C2-102B	0_AE002796	-	312513	312848	3904-4242	339	5'.	0	AGAACTATCA	TGGGAACGAA	ATAAAATCAAAGTTTAAAAA	AGTTTCGAA
4	102B2-101F	0_AE002796	+	570822	571161	3516-3856	341	5'x3'	0	TTCCAGGAT	TAAAAGAAAA	CGTAGCGAGCACAACCAAAGT	TTTTGAGAAT
4	101F1-101F1	0_AE002796	+	688508	688761	2713-2976	264	5'x3'	0	CTAAATTTT	TATTGGAATA	CTAAGATCTGCATACGAAAAT	CCTGAGTACT
?	?	0_AE002770	+	301	758	900-1361	462	5'?	0	AAGATCTCAAT	AAATAATAAA	ATTCAGACATGATGCGTAAAT	NNNNNNNNN
?	?	0_AE002983	+	301	439	3804-4242	439	?	0	nnnnnnnnnn	CTACAGTTAT	AAAAAAAAATAAAAAAAAAAAAA	AAACTTATAC
?	?	0_AE003354	+	1832	2536	2984-3724	741	5'x3'	0	nnnnnnnnnn	AAATCTTCA	GTCAACAATACACTTGCTC	GCACGACTTG
?	?	0_AE003035	+	301	368	3873-4240	368	?	0	nnnnnnnnnn	GAGAACCATC	AAAAAAAAAAAAAAAAAAAA	TTTCGAAGAA
?	?	0_AE002760	-	43780	44706	1708-2655	948	5'x3'	0	ACAAGCCGCT	CAACCGCCTG	CGAGGCTACTAGCACAATCGC	AAAAAATAAT
?	?	0_AE002743	+	5740	6066	1938-2265	328	5'?	0	CATTCCGTT	CATCTGGCC	CAGCTCTTACTCAACACCACA	NNNNNNNNN
?	?	0_AE002743	-	81458	82065	1864-3462	1599	5'x3'	0	TTAAAAAAA	AAAAATAAAA	ATCCCAATCCGAGCCAGATC	CAACCCAGAT
?	?	0_AE003183	+	56390	56747	503-861	359	5'x3'	0	GAGGAAAC	ACAGAAAGTT	CGGTAGTATCTGGAGACCTC	CACAACCTCA
?	?	0_AE003163	-	12867	13300	3105-3535	431	5'x3'	0	TTGGCTTGT	TAGGACCCGC	ATAAAGTAAACGAGAAAACA	GACGTTAAAC
?	?	0_AE003026	+	301	1164	219-1398	1180	5'x3'	0	GGGACCCAT	TGATCGACAA	CATACTCGGACCAATCAAT	GGTACGTTG
?	?	0_AE003171	-	6674	7230	1489-4222	2734	?x3'	0	nCACACAC	GAAGCATATC	TAAAGCAATGGTAAAAAAA	GTTCAATCAG

?	?	0_AE002709	+	31996	32453	2534-3001	468	5'3'	0	GGAATGCGCT		AGCGTTTTGT	GAAACATGTCTACTAATTCTGA	GAGAGAGAGA
?	?	0_AE002927	+	10745	11012	3013-3273	261	5'3'	0	AAAGTCTGCT		TCTTATTCTA	CTATGACAGCAAGCTTGCAGT	CACTTCCACT
2R	101F1-42B	0_AE002778	-	4528	4798	3972-4242	271	?	0	NNNNNNNNNN		AAAAATACCA	AAAAAAAAAAAAAAAAAAAAAAAA	TTCAAAATTTA
?	?	0_AE002642	+	12711	13013	3731-4070	340	?3'	0	NNNNNNNNNN		TCTGGTCTC	TCCGGCGAAAGGACCTACCTA	AATAATACAA
?	?	0_AE003037	+	725	1041	3907-4224	318	5'3'	0	GGATTAATAA		GAAAGAAAAC	AAAAGAAAATTAATAAAAAAAAA	CTTCTGCTCA
?	?	0_AE002736	+	2020	1941	1-222	222	?	0	CTCGTCATCG		CTGCACCCGC	CACGCGACAACCTACCTTGA	nnnnnnnnnn
?	?	0_AE002692	+	301	217	4012-4228	217	?3'	0	nnnnnnnnnn		GCGCGAGGTC	GCAAAGTAAAAAAAAAAAAAAAA	CGGCCATTCC
3L	63B8-63C6	1_AE002584	+	255932	256370	3801-4242	442	5'	12	GCATGGCGAA	AATTAGCAAAG	AAACGGCTCC	AAAAAAAAAAAAAAAAAAAAAAAA	CGAGGCAACA
?	?	0_AE002691	+	29366	29619	3970-4220	251	?3'	0	NNNNNNNNNN		GGAAAAATAC	GTAAAAAAAAAAAAAAAAAAAAA	TATCTCTGTA
?	?	0_AE003242	-	13139	13371	3321-3549	229	5'3'	0	GCCGCCCTT		TCCATCAAAG	GCAAAAATGAGAGCATGTAAC	TGCAACAACA

Full-length elements: 2/15
5' truncated elements: 7/10
3' truncated elements: 0/9
5'3' truncated elements: 2/24
Unfinished elements: 25
Total number of elements: 94
Total length of elements: 155644
TSD lengths (min/max): 0/35

G

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank	
2R	60D16-100C	1_AE002575	+	976898	978814	2456-4346	1891	5'	9	TTCCGCCAG	AGCGAGGGA	AAAAAGGCGC	CACAAAAAAAAAAAAAAAAAAAA	TTACCCCAT
2R	60F1-60F1	1_AE002575	+	1362746	1366567	633-4346	3714	5'	0	CAGCACCCCC		ATCACCCCAA	CGCTAAAAAAAAAAAAAAAAAAA	CTAAATGAT
2R	60F1-60F1	1_AE002575	+	1366945	1371041	1-4343	4343	F	8	ATATGCGTCA	CTAAATTG	ACAGTCGCGA	TCCGTAATAAAAAAAAAAAAAA	ATGACGAGGT
2R	60F1-60F1	1_AE002575	+	1371143	1374812	1-3622	3622	.3'	0	CACTAAATTG		ACAGTCGCGA	CATCATTCAAAGCCAGCTGCA	CTTATCGAGG
2R	60F1-60F1	1_AE002575	+	1374999	1375640	1-650	650	.3'	0	CACTAAATTG		ACAGTCGCGA	GGAAATCTGCTCCAAAAACCAT	TGTTTCGAGTT
3R	84E-84E8	0_AE002708	-	387456	390424	1334-4345	3012	5'	7	TTTTATTGTT	ACTACAG	AGATGCGCTC	GGCTACACAAAAAAAAAAAAA	CTAGTCAATC
?	?	0_AE003204	+	6277	9451	885-4281	3397	5'3'	0	GACACGCCCA		ACTGTAAGGG	ATGTCCTCAATCCAAACACT	GTCCGAAATG
2L	38B5-38C	5_AE002690	-	79489	79806	3088-3412	325	5'3'	0	GGCTTTTATC		TGCTGGAAAT	TAAAGAGTTTCAAGTCAGATG	TTAGATAAT
2L	38B5-38C	5_AE002690	-	85508	85995	3187-3674	488	5'3'	0	GGGAGGATTT		TCAGGCGATT	ATCGTGATCAACGCTGATAAA	AAAAATAGTG
2L	38B5-38C	5_AE002690	+	86152	86691	3805-4346	542	5'	0	AGGAAGCGTA		CCAGGCCAAC	CTACACAAAAAAAAAAAAAAAA	CAATTTTTTG
2L	38B5-38C	5_AE002690	-	124800	127295	888-4273	3386	5'3'	0	TGGGCATATA		GTCCAGGAAT	AAGTTAATGCAACCCCCCC	CCCCCCCCC
X	3D5-3D	1_AE002566	-	363223	363454	888-1120	233	5'3'	0	TGGGCATATA		GTCCAGGACC	TCTAGAAACCCGCTGTGTA	AGAAGTGACA
X	3D5-3D	1_AE002566	+	365430	365624	2432-2633	202	5'3'	0	TTGAATGTAT		CCAGCAAAT	AACATAATCTGTTGCAAGTCA	TATCAGGAGG
X	3D5-3D	1_AE002566	-	365658	368318	377-4186	3810	5'3'	0	CCCGCACCAA		AGGCCCTACA	GCCTGCAGATAACGCACCCGC	ACCCGCGAGG
X	3D5-3D	1_AE002566	-	368925	371275	377-2726	2350	5'3'	0	CCCGCACCAA		AGGCCCTACA	AAGCCGAAAGAGCTGAAGCGT	TTTTTTTGA
X	3D5-3D	1_AE002566	-	371876	373848	377-2726	2350	5'3'	0	CCCGCACCAA		AGGCCCTACA	AAGCCGAAAGAGCTGAAGCGT	TTTTTTTGA
X	3D5-3D	1_AE002566	-	374207	374726	888-1409	522	5'3'	0	TGGGCATATA		GTCCAGGACC	GAATCCCGAGCTCCTGTTGA	TGGCGGAATA
2L	32F2-33A1	2_AE002690	+	351325	353688	2011-4346	2336	5'	0	AAACAGCGCC		CCAGCAGAGC	AAAAAAAAAAAAAAAAAAAAAAA	TTTTTTCCCG
2L	34D4-34D4	2_AE002690	-	2635507	2636637	3237-4346	1110	5'	0	TCCCATCTCT		ATTTTGAAT	AAAAAAAAAAAAAAAAAAAAAAA	CATACATATA
?	?	0_AE002837	-	50563	52096	2838-4346	1509	5'	0	GAGTCCATGT		CTCCTAGCCC	AAAAAAAAAAAAAAAAAAAAAAA	CCAATATTTT
?	?	0_AE002837	-	57520	57991	1658-2161	504	5'3'	0	GCCTTTGGAA		CCGAGATCCA	AGCGCAGTAAGCATGCTCTTA	AACATCCCGC
?	?	0_AE003213	-	3502	3923	1298-1722	425	5'3'	0	GGACATGTTA		CTCCGCGCAG	AAACCCCTTCCGCGCAGAG	AGCAATCCTC
?	?	0_AE003213	-	10650	12528	1823-4339	2517	5'	0	TTATTTTTC		ATCCTTCAGG	ATGAAGTTTACAACAAAAAAA	TTTATATATG
?	?	0_AE002938	-	301	480	2093-2498	406	5'3'	0	GACTTCAACG		CTGGATTTTG	ATCTGGTTCTTCTCGCGAAA	CGTCGAGAAG
?	?	0_AE002938	+	4560	4930	3969-4341	373	5'	0	TTTGTG'FAGC		AGCGATTTCA	AAAGGCTACACAAAAAAA	CCCCATTTGT
?	?	0_AE002938	+	6177	6544	3969-4340	372	5'	0	TTTGTG'FAGC		AGCGATTTCA	AAAAGGCTACACAAAAAAA	CCCCATTTGT
?	?	0_AE002938	-	9703	9936	888-1120	233	5'3'	0	TGGGCATATA		GTCCAGGACC	TCTAGAAACCCGCTGTGTA	ACACCCGAGC
?	?	0_AE002772	+	7084	8632	1152-3396	2245	5'3'	0	GACCATAAAA		GAAAAAAAGG	AATCCTTAAAGGAGGTAGAG	CTTCTCGCG
3L	78C9-78A	0_AE002647	+	1020493	1021392	3468-4346	879	5'	0	AAATACTTTT		GTCTTTGGTC	CAAAAAAAAAAAAAAAAAAAAA	TTCTAAAAC
2L	38A1-38A1	4_AE002690	+	2648729	2649219	3855-4346	492	5'	0	TCCACTGGCT		CCAAGCTGCG	CTACAAAAAAAAAAAAAAAAAAA	CAATTTTTTG
2R	38A1-42B	0_AE002778	+	301	625	1357-4346	2990	?	0	nnnnnnnnn		ACGCAGCACC	AAAAAAAAAAAAAAAAAAAAAAA	CTGTACTCTG
2R	41F11-41C	0_AE002769	-	1123417	1123627	4037-4248	212	5'3'	0	CTTATAACCA		AGAAAGAAT	AAAATACAGTACTTCTTATT	TTATTATTAT
?	?	0_AE003021	+	21336	22057	934-1753	820	5'3'	0	TTGGCAGGAA		TAGGGATATT	GCAGCCATGCTCATCAGGAGC	AAGTGGCAAG
?	?	0_AE002712	-	2049	2361	4013-4337	325	5'	0	CAACAGCAAG		CATGCAATTA	AAACGCACGCTCAAAAAAAA	GTAGTATAGG
?	?	0_AE003024	-	58479	58755	1450-4346	2897	5'	0	GGAAAGGAAT		TGGAAAGGAT	CAAAAAAAAAAAAAAAAAAAAA	ATTTTGTCCG
?	?	0_AE003383	+	2982	2926	2040-2283	244	5'?	0	AGAAATGATT		CAATTTGGGAG	ACTCTGGACGCTCTCTCTCT	Gnnnnnnnnn
?	?	0_AE003092	+	301	296	4048-4346	299	?	0	nnnnnnnnn		GGATTCATGG	GGCTACAAAAAAAAAAAAAAAA	GAAACAGAAA

Full-length elements: 1/0
5' truncated elements: 2/12
3' truncated elements: 0/2
5'3' truncated elements: 0/17
Unfinished elements: 3
Total number of elements: 37
Total length of elements: 56025
TSD lengths (min/max): 7/9

Idm

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank	
3R	98B8-98B	6_AE002708	+	1937821	1943206	1-5374	5374	F	13	TCTGTATTAT	ATATTCTATTTAT	CAGTACCACC	TCATAATAATAATAATAATA	GGGCAAAATA

3R	98B-98C	6	AE002708	-	2277574	2282959	1-5374	5374	F	12	TTTTAAAAAC	ACAAACCAAACG	TCAGTACCAC	TCATAATAATAATAATAATA	AGTAAATCTC
X	11A4-11A6	0	AE002593	+	1371575	1376962	1-5374	5374	F	17	GGGCAATGGA	AAATATTTCTAATGTACA	GTACCACATTC	ATCATAATAATAATAATAAT	AAGTCTGTTG
X	19F-19B3	0	AE002620	+	544610	549995	1-5374	5374	F	16	AATCATGATA	AATAATACAAGGGCTG	GCAGTACCAC	TCATATAATAATAATAAAT	TGAATCTATA
X	4F10-5A6	1	AE002566	+	2290140	2294096	1424-5374	3951	5' .	13	TTGTTGAGCA	ATCTTAGTAATGA	CCTAACCGTT	AATAAATAAAAAAAAAAAAA	ATATATGGGC
2L	23A2-22A1	0	AE002638	-	2279164	2280940	3604-5374	1771	5' .	11	TTTATTTGCT	ATATTTTCATGC	ATCGACGATA	TCATAATAATAATAATAATA	CTGGCTGCAC
X	2B-2B6	0	AE002566	-	1322872	1324609	3641-5374	1734	5' .	11	GGGTCAATTT	ATATTTAAATAT	CCTATCCCTA	TCATAATAATAATAATAATA	CATGTATTTTC
4	101F1-101F1	0	AE002796	-	708395	708687	5082-5374	293	?	0	NNNNNNNNNN		CAAGATATAT	CATAATAATAATAATAATAA	TACAGTGATCA
4	101F1-101F1	0	AE002796	-	713552	714000	1-449	449	?	0	GTGATCAATT		CAGTACCAC	CTAACAAAAATTGCAGATGA	NNNNNNNNNN
3L	78C9-78A	0	AE002647	-	1024609	1029997	1-5374	5374	F	14	TAACCTTTAC	ATTTGCTTGCATTC	ATTCAGTACC	TCATAATAATAATAATAATA	TCAGTATCA
X	12C1-12D1	1	AE002593	-	134666	137893	2159-5374	3216	5' .	9	AGCCAGAAAT	ATAAATAAC	AACACTATTTC	TCATAATAATAATAATAATA	TGATGGTTT
X	12F1-12F1	1	AE002593	-	815649	821037	1-5374	5374	F	14	AGTTTCCATT	TAGTTTGTGTATT	CAGTACCAC	TATCATAATAATAATAATAA	GCCATGCTCA
?	?	0	AE003041	-	7817	9675	3505-5374	1870	5' .	0	TTGACATTTA		TTCAAAATTC	CATAATAATAATAATAATAA	AAAACAGAGGA
?	?	0	AE003172	+	301	1983	708-2385	1678	2' .	0	nnnnnnnnnA		ACAGTCCGAG	GAACAACCTTGCCTGATAAA	ATTAAGCCGC
?	?	0	AE003173	-	3282	3966	4687-5374	688	5' .	0	TGCACCTAAA		ATTAAGGAAT	CATAATAATAATAATAATAA	ATCTTCAACG
?	?	0	AE002862	-	301	1011	1376-2445	1070	?	?	nnnnnnnGAG		ATAATCTATC	AACAAAAAACAACCTTGCCTGG	Ammmmmmmm
3L	66E2-66D14	3	AE002602	-	2462695	2463202	4867-5374	508	?	0	NNNNNNNNNN		CGAACACCTC	TATCATAATAATAATAATAA	TTAACCCATT
3L	66E2-66D14	3	AE002602	-	2467763	2468082	1-320	320	?	0	AACCCATTCT		CAGTACCAC	TCACCATTATCATATAAAAA	TTNNNNNNNN
?	?	0	AE002809	-	20213	20409	3423-3624	202	5' 3' .	0	TGAAGTTGGT		TTACAGTAAAC	TACAATATGCAAGAAATATGT	AAGAAATGTA
3R	86A-86B1	0	AE002708	-	2525553	2526062	1487-2000	514	2' .	0	NNNNNNNNCT		ACCGTTACAC	AAAAGACTCAAAAAATGAAT	CTAAAGCTAA
3R	86A-86B1	0	AE002708	+	2530283	2530563	5096-5374	279	?	0	NNNNNNNNNN		CAACACCAAC	TCATAATAATAATAATAATAA	AATAAACAATA
2R	42A2-41F9	0	AE002769	+	289211	289417	5167-5373	207	5' .	6	TATAAAGTAT	ATAAAAT	TAAAAAAATTA	TATTCATCTATATAATAAA	ATTCTGTACT
2R	42A2-41F9	0	AE002769	+	305400	305955	4810-5372	563	5' .	0	TTTCGGGGCC		CGAAACAATAT	TATACAGCAAAAGACCAAA	CTAAAAACT
2R	41F11-41C	0	AE002769	-	978283	978658	1-383	383	?' .	0	TGCAAAACAA		CAGTACCAC	CGAACAGAGACGGCAACTC	AAGACCGTCT
?	?	0	AE003402	+	301	554	2807-3358	552	2' .	0	nnnnnnnnnA		ATAGCCCAAA	ACTAAAGCCACTCTAAAAA	GAGGCTTGTA
2R	44D-44C1	4	AE002787	-	264761	265492	4642-5373	732	5' .	0	AAAAAAGGG		TAAACAATA	ACGAGAAATTTTATGAAAGTA	TTAAACTTAA
3L	64C11-64C9	5	AE002602	+	67546	67916	5004-5374	371	?	0	NNNNNNNNNN		CCAACCTGCC	TATCATAATAATAATAATAA	TAATTTCTTT
2L	39C3-?	5	AE002690	-	1341063	1341421	1544-1908	365	5' 3' .	0	GTTGTATTAC		AACGATGGAC	CAATTAATATACAACAACA	TGTAGGGGTA
?	?	0	AE003036	-	2667	3082	1555-1970	416	2' .	0	NNNNNNNNAT		AATCCAATT	AGGGCTCACCAACAACAAAT	TTTTTAAACA
?	?	0	AE003307	+	12927	13016	33-398	366	5' 3' .	0	TCTCGGTTCA		GTACTACCCA	TGACCATCAACACAGCCCAA	TTGACCGCAA
?	?	0	AE003055	-	1713	2027	2548-2865	318	5' 3' .	0	TCCAAATATG		CGCGTTTATT	TTATTGCCATATACCACAA	ACAAGGCCAA
?	?	0	AE002736	+	301	326	5052-5374	323	?	0	nnnnnnnnnA		ACTCATGGCC	CATAATAATAATAATAATAA	AACGCAATA
?	?	0	AE003023	-	301	248	4917-5165	249	5' ?	0	GAATCCCTCA		ACCACATGGC	CAAAAATCATACTTTTCCT	Cmmmmmmmm
?	?	0	AE002631	-	1699	1702	5077-5374	298	?	0	nnnnnnnnnn		CCAAACAAGA	TATAAAAAAAAAAAAAAAAAA	TTATAAAAITT
?	?	0	AE003220	-	301	320	4789-5104	316	5' ?	0	AATTCACCTGT		AAACAGTTAGG	AGACATATTTTAAACAACA	Annnnnnnnn
3R	87F2-50D	1	AE002708	+	2606054	2606376	853-1175	323	5' 3' .	0	CTAATTTGTA		ACA AACGAAA	CAAACTCCGAGACTACACAC	CACCATAGGT
2L	21B7-21B3	1	AE002638	+	1689760	1689981	5153-5374	222	5' .	0	TTCTCAGTTA		CATACATTAT	CATAATAATAATAATAATAA	ATAATTAAAC
4	102A-101F	0	AE002796	-	642597	643877	4059-5374	1316	5' .	0	ACATATTTTA		AATACTCCCT	TATTCATCTATATAATAAA	AATAATAACT
4	102A-101F	0	AE002796	-	645198	646803	2017-3720	1704	5' 3' .	0	TAGTTGAGAT		TCCTCAAAC	CAAGATAAGCTGCAACAAT	GGAACGAAGT
3L	102A-77B3	0	AE002647	-	3408	4510	36-1176	1141	5' 3' .	0	TCCGAAGCC		CCACCAGTT	TTCCAGCCGATCAAAACTCT	GTATAGTTAG
?	?	0	AE002918	-	14117	16217	1-2169	2169	?' .	0	ACATTTACAT		CAGTACCAC	CTCCTCGCCCATTTGCTCTAA	TTGTGGCAAC
?	?	0	AE003173	-	5427	6586	61-1286	1226	5' 3' .	0	AGTCTTACTA		CGTGCACAC	TAGAAGACATGGATAAATAA	AAAACGCAAA
?	?	0	AE002931	-	11437	14039	1422-4261	2840	5' 3' .	0	ACCAACATTT		CTACAACCTC	GAACTCCTTTTCCCTTAACC	TTTTCCCTCC
?	?	0	AE002809	-	11236	12713	3501-5374	1874	5' .	0	TAACCGTGGC		TGCGTGCAGC	TTGTCTATAATAATAATAAA	ATATTTATTT
?	?	0	AE003063	+	6436	7529	4241-5371	1131	5' .	0	ACTTGAACC		AAAACCTCAT	CTATCATATAATAATAATAA	ATCTCACATA
2R	46A-46B1	3	AE002787	-	1958743	1958845	36-1176	1141	5' 3' .	0	TCCGAAGCC		CCACCAGTT	TTCCAGCCCATCAAAACTCT	GTATAGTTAG
?	?	0	AE003181	+	12276	13376	4830-5369	540	5' .	8	ATTATATTAT	ATAAACA	GCAGTCCATG	TCTATCTATCATATAATAA	TGTCTCTCT
?	?	0	AE002603	+	43577	44184	3056-3698	643	5' 3' .	0	AACAACTCTGA		ACACCAAAAC	GTTCCTATCGTTACTTCAA	AAATTTTTAGG

Full-length elements: 6/0
5' truncated elements: 6/8
3' truncated elements: 0/2
5'3' truncated elements: 0/11
Unfinished elements: 15
Total number of elements: 48
Total length of elements: 72516
TSD lengths (min/max): 6/17

Jockey

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank	
2L	25A8-25A5	0	AE002638	+	15360	20359	1-5049	5049	F	12	AAGAGCAAGT	AAGATTTGCATT	CAITTCGCATG	GCATACTTTT
X	20A5-20	0	AE002629	-	399726	404726	1-5049	5049	F	15	CTAGACTCTT	ATACAGAGGTGGTCA	CATTTCGCATG	AAAGTATTTA
2R	43B2-43B1	4	AE002787	-	1434026	1439023	1-5047	5047	F	13	TTTTGCCATG	TCTTCCGAGCCAG	TCGCATGGGA	AGCAGAAAT
3L	65A-64F	4	AE002602	+	2233035	2235616	1-5048	5048	F	10	TTCAGTATTA	AAGGAATAAC	ACAGTCGCATG	GACTTTATCC
3L	64E-64D	4	AE002602	+	2698807	2699057	4791-5049	259	5' .	11	TTAATGTTTT	ACTGTTATGGT	ACACACCCTC	TACTGTACAA
2L	30A8-30B	1	AE002690	-	1440270	1443165	2114-5049	2936	5' .	3	TTTACTTGTT	ACA	GGATATTCCT	GTGCTAATGA
3R	87F2-50D	1	AE002708	-	2747838	2751352	2286-5049	2764	5' .	12	AAAAAGCCATC	ATACTTTGTGATT	CTGCACCTA	ATGCTTTTTT
3L	69F6-69D	2	AE002602	+	1387337	1389607	2746-5049	2304	5' .	0	TTCTAATAAA		ACATACCAA	TGCTTTAAGT
3L	68C5-68A8	2	AE002602	-	2928345	2931504	1852-5049	3198	5' .	13	TGTGGTTTAT	AATCATTAAAGAGT	AAATTTAAACA	GACCGTCGTT
2R	56F9-56E	0	AE002787	-	1000761	1003994	1777-5049	3273	5' .	12	TCGCTCATGA	AGAAATCATGAT	CATACCAGCT	GCCGAAATGG
2R	55E4-55C	0	AE002787	+	2381230	2381775	1-554	554	?	0	AATAGTTCCA		GGGAGATGAG	NNNNNNNNNN
2R	55E4-55C	0	AE002787	+	2383635	2383854	4821-5049	229	?	0	NNNNNNNNNN		TTTTGCCTAGA	GGACAACTAG
2R	55A4-54F3	0	AE002787	-	2696250	2696501	4790-5049	260	5' .	13	TCCAGCAATC	ATATAAAGTTAGC	ACACCACCTC	AGTTGTAATC
2R	58D1-58D6	0	AE002575	-	1569356	1571075	3291-5049	1759	5' .	10	GCCACAGACG	ACACACATGG	ATACTTGGAA	GACCCCAATA
2R	58D1-58D6	0	AE002575	+	1580018	1580360	4694-5049	356	5' .	8	CTCAGTGTGG	AAATTTACA	TTTTACACCC	TCCGTTTCGG
2R	58E4-58E4	0	AE002575	-	1745421	1748885	1546-5049	3504	5' .	11	GAATCGTGT	ACCCTTATGTC	TGCGCCGAGG	GACTCGGGTT

2R	59A-59B1	0_AE002575	+	1994639	1994979	4696-5049	354	5'	14	TTTCCTAGCT	TTAAGAGCTGAGCA	CCCCAACAGC	CATCAAAGAAAAAAAAAAAA	TATCGATTTA
3R	85A11-85B9	0_AE002708	-	995194	997370	1-2190	2190	.3'	0	CATGGTCGCA		GGGAGATGAG	TTACTATGTATCAACTAT	TATAAITCTC
3R	85D2-85D10	0_AE002708	-	1601649	1601987	4696-5047	352	5'	11	TCTGGCTTTC	ATTATGACCGT	GTACACCCCA	AAAAAAAAAAAAAAAAAAAA	AANTACTGTCA
2L	22A4-22A3	1_AE002638	+	264926	265175	4792-5049	258	5'	13	TTGCCTGGCC	TTGCTTTTCTCTT	CACCACCCTC	CATCATCGTAATCGTAAAA	TCCGGTTTGT
2L	21B5-21A3	1_AE002638	+	1813836	1818834	1-5049	5049	F	12	AAAAACGAAAC	ATATTGAAAAGC	ATTTCGATGG	AAAAAAAAAAAAAAAAAAAA	GAAAACAGGA
2R	50C2-50A12	2_AE002787	+	1138779	1139028	4792-5049	258	5'	12	TCACAGATGC	ATTGATAATATT	CACCACCCTC	AAAAAAAAAAAAAAAAAAAA	GCCTAGGCTT
2R	49D6-49D1	2_AE002787	-	1900367	1905364	1-5049	5049	F	13	AAATCCTTTGG	AGACACACACACA	TTTCGATGGG	AAAAAAAAACATCATATAAAA	GCACACAAAA
3R	84A2-?	0_AE002699	-	1182956	1187975	1-5049	5049	F	11	AAAGCCGGCT	GTGGTTACACT	CATTTCGATG	ATCATCGAAAAAAAAAAAAA	GCTTAAGTGA
X	4D3-4B1	1_AE002566	-	1510089	1510348	4782-5049	268	5'	10	TTTTGTTTATT	ACTGTCTGCA	CACCACCCTC	AAAAAAAAAAAAAAAAAAAA	GTTTCTACAA
X	4D3-4E1	1_AE002566	-	1541460	1546459	1-5049	5049	F	12	TTTTATCTAGT	GTACATTTTATT	TTCATTGCGA	AAAAAAAAAAAAAAAAAAAA	GGCTAATCTG
X	4D3-4E1	1_AE002566	-	1601547	1601894	4691-5049	359	5'	13	TTTTCCGTTCT	CTTAAATGTGAAT	CCCCAACAGC	AAAAAAAAAAAAAAAAAAAA	GCATAATAT
X	4F10-5A6	1_AE002566	-	2148304	2149457	3863-5049	1187	5'	13	TTTTCCGTTCT	TGTATTTGAGAGCG	GCTGTTCGCG	AAAAAAAAAAAAAAAAAAAA	AAGAACCCTC
X	7A-7B3	2_AE002566	-	1284674	1286092	3598-5049	1452	5'	10	TTTTGTCTGT	ACATTAGCGA	TGCCCATCAG	GACAAAAAAAAAAAAAAAAA	CGCATCCGAC
X	7A-7B3	2_AE002566	+	1506150	1506489	4696-5048	353	5'	14	CAATCCGGAT	ATCAGTTTGTAECT	TGTACACCCC	AAAAAAAAAAAAAAAAAAAA	GCTAGAATC
X	7B3-7C3	2_AE002566	-	1587519	1587768	4786-5044	259	5'	11	ACTCCATCTT	ATGGAATATGC	TTTTGACCTAG	AAAAAAAAAAAAAAAAAAAA	AGCAGTTTCC
X	8B-8A5	2_AE002566	+	2716702	2717041	4697-5049	353	5'	9	GCTATTGTCG	ATCAATTTGG	AGTACACCCC	AAAAAAAAAAAAAAAAAAAA	TAGCATTTCAC
3R	97B-97D1	6_AE002708	+	853770	854071	4737-5049	313	5'	12	GGGTATACGC	ATGTTGTCAACT	TGGTCAATCG	AAAAAAAAAAAAAAAAAAAA	GGTGGGCAG
3R	98B-98C	6_AE002708	+	2462170	2465119	1-5049	5049	F	12	CATCTGGCTT	AAAATATTTCAC	ATTTCCGATGG	AAAAAAAAAAAAAAAAAAAA	CTTCTTCGG
3R	98C-98D	6_AE002708	-	2511503	2511842	4697-5049	353	5'	15	ATGTACACGT	AGSTAAAAAGAAGTC	GTACACCCCC	AAAAAAAAAAAAAAAAAAAA	ATTTTGTGTG
3R	98E2-98E	6_AE002708	+	2989759	2990342	1-594	594	?	0	ACCCGAAATA		GGGAGATGAG	CAACATGATCTGACTCTACA	ANNNNNNNNN
3R	98E2-98E	6_AE002708	+	2994173	2994423	4791-5049	259	?	0	NNNNNNNNNN		ACACCACCCT	AAAAAAAAAAAAAAAAAAAA	CCCGCAATA
3R	35F-8B1	2_AE002708	+	477783	479194	3606-5049	1444	5'	11	GGCTGTGCTT	CCAGCTGTGCC	GCTGTGCTCTG	AAAAAAAAAAAAAAAAAAAA	GACAGCGCCG
3R	99A6-99B5	7_AE002708	+	516094	516344	4791-5049	259	5'	0	TTGTTACTCT		AAACACCCTC	TCAAATAATAAACATCATC	GTAAATCGTTA
3R	99A6-99B5	7_AE002708	+	603004	604199	3821-5049	1229	5'	13	TATCATATTG	ACGCTGCGTGGGA	TTGACAGAGT	CCAGCGCGCGTCAAGATA	ACCACAAAGC
3R	99B5-99B9	7_AE002708	-	849523	850001	1861-5049	3189	?	0	NNNNNNNNNN		TGTGCAGGCT	TAAAAAAAAAAAAAAAAAAAA	CAGAGCCTTT
3R	99B5-99B9	7_AE002708	-	851043	851635	1-601	601	?	0	TTGAGTCCGNA		GGGAGATGAG	CTTGGACTCCTACATACACTG	NNNNNNNNNN
3R	99F11-99F6	7_AE002708	-	1669332	1669663	4704-5048	345	?	0	NNNNNNNNNN		CCAACAGCCT	AAAAAAAAAAAAAAAAAAAA	TGAATTTCTT
3R	99F11-99F6	7_AE002708	-	1671104	1671637	1-540	540	?	0	TTACTCCGCA		GGGAGATGAG	CAGCAGCAACCAATGCAG	NNNNNNNNNN
3L	67C-69	3_AE002602	+	1679238	1679701	1-470	470	?	0	TATAGTCGCA		GGGAGATGAG	GTCAGTTTGTTCCTCCTAAC	NNNNNNNNNN
3L	67C-69	3_AE002602	+	1684039	1684340	4737-5047	311	?	0	NNNNNNNNNN		CAGCTGTGGT	ACATCAAAAAAAAAAAAAA	TGTACATATA
3L	67C-69	3_AE002602	+	1688080	1688328	4793-5049	257	5'	14	TTATTTACTT	ACACTATACCTTAC	CACCCCTCATG	AAAAAAAAAAAAAAAAAAAA	ATTTGCGGAT
3L	67A-66F5	3_AE002602	+	2040451	2041057	4428-5049	622	5'	15	TGCAGCTGCC	ACTATGTCTATTCCTT	GTCCATATTG	AAAAAAAAAAAAAAAAAAAA	AGTTTTCCTC
X	12A-12A3	0_AE002593	+	2625065	2626133	3946-5049	1104	5'	0	GTCATGGCA		AGAATCTCG	AAAAAAAAAAAAAAAAAAAA	GGATGAAAA
X	12A-12A3	0_AE002593	+	2626347	2626925	4454-5048	595	5'	0	ACCTGAATAT		TCCAAGTGCA	AAAAAAAAAAAAAAAAAAAA	CGCTCTTAAC
2L	38A1-38A1	4_AE002690	+	2586207	2587103	4121-5048	928	5'	11	TTTTCCGTTGG	TAGACCATGGC	AGTAAAAGTA	AAAAAAAAAAAAAAAAAAAA	GACCACTGCT
3L	61D2-61E	0_AE002584	-	919237	920285	3951-5049	1099	5'	13	CTGAAATTTT	ATGCTTCAACTTT	TGCAGCTGGA	AATAAAAACATCATCGTAATA	CTTCTGTTG
?	?	0_AE002818	+	652	1015	2746-3413	668	5'	0	TCACTCATTTG		ACTTGCCCAT	AAGCTGCCACTTAAAGAAAGCT	nnnnnnnnnn
?	?	0_AE003183	+	23192	23935	1438-2216	779	5'	13	AAAGCAAGCC		AAATAACTCA	AGGATATCGTGTGATCATGC	AGTGGTAACA
X	19F-19E3	0_AE002620	+	419801	420795	4019-5049	1031	5'	11	ATACGTATTT	AGCCCAAAAAGC	CACCTACGCT	AAAAAAAAAAAAAAAAAAAA	CACAGTATG
2R	47F18-47D1	3_AE002787	+	690985	691573	21-616	596	5'	0	AGCAAAATTA		GACGTGTTCA	ACACTGATTTGCAACCGTGA	NNNNNNNNNN
2L	38E6-39A	5_AE002690	-	842721	843185	1-471	471	?	0	TACATTCCGA		GGGAGATGAG	TGCTGTTGTTTCCCTAACCT	NNNNNNNNNN
X	8D9-8E4	3_AE002566	+	302101	302642	3595-4140	546	5'	0	TACTCAATAT	ATAAAAATAA	TGCAGGCCCA	AAGTAAAGTATCCTGGCTGT	NNNNNNNNNN
2R	54B1-54B2	1_AE002787	-	465053	465403	4686-5049	364	5'	11	TTTTGTCAGC		TTGTACACCC	AAATAATAAAAAACATCATCTG	CGTTTTTGAA
2R	54B2-54A1	1_AE002787	+	590026	590409	1-389	389	?	0	CACATTCCGA		GGGAGATGAG	TGGTGGCATATAATTGAGAA	NNNNNNNNNN
2R	51E-51C	1_AE002787	+	2732683	2732918	4807-5049	243	5'	11	ATCTTAGTTT	TCTGGTTTTTTC	CCCTTAACCT	AAAAAAAAAAAAAAAAAAAA	TCCAATTTAA
2R	42A2-41F9	0_AE002769	-	333319	333942	2973-3613	641	5'	3	AGAGATTTCC		GAGACTTTTG	CTTACAGGTCTACTCCCTTCC	CTGGGAAAA
2R	42A2-41F9	0_AE002769	+	333880	334113	2603-2842	240	5'	3	CAGTGTGCAA		TCATCCCTTG	GACGCGTGCATATTGTAAT	AAATAAATTA
2R	41F11-41C	0_AE002769	-	853426	853701	2992-3268	277	5'	0	GCTGCTCTTC		TCGTCACCCG	CAACGGCTTGTAACCCCTAT	ACCTATGCAT
2R	41C-?	0_AE002769	+	1276505	1276761	3729-3983	255	5'	3	CCCTCTCTTT		ACCCCTAAGC	AATTTGACGTTGGAAGTGTCTC	AGGCCCTACC
?	?	0_AE002837	-	53916	56726	2777-4712	1936	5'	3	TGGCGTGAA		AAAACCAACT	TTAATGCAACCCCAACAGCC	TTTTAGAAAA
?	?	0_AE002931	+	15143	15395	2785-3039	255	5'	3	ATGTCATTAG		TTTTGAAATTA	CGGATTCATCTGTTGCACTGGC	GCTGCAAAAA
3L	73A3-73A3	1_AE002602	+	784974	785438	4570-5049	480	5'	0	AGCATCTATT		ACATCATCGAAATAAAAAAA	AACATCATCGAAATAAAAAAA	GAGAAAAAAA
3L	72A3-71E3	1_AE002602	-	1379462	1379910	4586-5049	464	5'	15	CTCCGTGTGC	TGGAGACCGGCGGC	TCGGGGGGCT	AAAAAAAAAAAAAAAAAAAA	AAGTGACGTA
4	102D1-102D6	0_AE002796	+	76872	77077	3997-4202	206	5'	3	GTCTGTATAA		TAGGCCCCAT	GCTGAAAAAGTGTGCCAATGTG	ACAGGTAGTT
4	102B8-102B1	0_AE002796	+	373898	374193	4454-4755	302	5'	0	ACCTGAATAT		TCCAAGTGCA	TGCAGCTGTGTTCAATGCTGA	NNNNNNNNNN
?	?	0_AE002830	-	743	1530	3759-4657	899	5'	3	GTGCACGGTG		TTTGTCTGAG	ACCAAGCTCAGAGCATCGCT	GAAAAGTACA
?	?	0_AE002673	+	3168	3747	1532-2130	599	5'	3	CAAACTGTGT		ACACTAATAA	CTTCGGTTATTTCTTAGCGAT	AGACTGTGCA
2L	34C-34C7	2_AE002690	-	2517774	2518303	4504-5049	546	5'	13	AAAAATATAC	ATGAAAATTAATT	CTGCAGGTAT	AACATCATCGTAATAAAAAAA	TGTGCCCAT
X	15B-15D6	2_AE002593	+	112151	112491	4696-5049	354	5'	12	TCTAGACTTT	CTTAAGAAAACC	TTGTACACCC	AAAAAAAAAAAAAAAAAAAA	CACCTCGAAT
X	16A1-16D1	2_AE002593	-	607216	607465	4792-5049	258	5'	12	GCTAGTGGG	ATCCGAGGAAAT	TCACACCCCT	AAAAAAAAAAAAAAAAAAAA	CAGAGAACTC
X	17E9-18C1	2_AE002593	-	2645280	2645772	4541-5049	509	5'	16	GCTGTCTTCT	ACACAGAACTCGCAC	TAAGATCCGG	AAAACATCATCGTAAAAAAA	ACACAGACAC
3R	95D9-95E1	5_AE002708	-	1287700	1288041	4696-5049	354	5'	13	CAATTCTGCT		ACACCACAC	AAAAAAAAAAAAAAAAAAAA	CACTTAAACA
3L	63D3-63E1	1_AE002584	+	449460	449800	4696-5049	354	5'	11	CCGTGTCCGC		GTGACACCCC	AAAAAAAAAAAAAAAAAAAA	GCATAAATTA
3L	79A-79A4	0_AE002647	-	1412601	1412907	4702-5019	318	5'	3	ATCACACTTT		CCCCAACAGC	AGTTGCCGATGGGTAAACAGT	TTTTTTTTTT
2L	35B2-35B	3_AE002690	-	645078	645427	4666-5049	384	5'	0	TCAACACTTCG		TCACACTTCG	AAAAAAAAAAAAAAAAAAAA	GAAATATCTAT
2L	35B-35B4	3_AE002690	-	913609	913949	4696-5049	354	5'	9	TGCTTTGTCA	AAATTTCTTCT	GTACACCCCC	AAAAAAAAAAAAAAAAAAAA	AACCTTTGCG
3L	76A-75D	0_AE002602	-	1283926	1283926	4786-5049	264	5'	13	AACTTTCCGG	ATAAAAATTCGCAC	ACCACCCTCA	AAAAAAAAAAAAAAAAAAAA	TGCAAAATTA
3R	82C5-82A4	0_AE002681	+	1825548	1825741	4520-4720	201	5'	3	AAACAAGACA		ATTCGCTCCC	TCAATCTAATAGTCTAGTAGT	ACGACTAAGT
?	?	0_AE002781	+	2893	3098	2305-2508	204	5'	3	AAATAGTGTG		CAATGATCCTGCATCCTAAGG	CAATGATCCTGCATCCTAAGG	ATGCTTTTAT
?	?	0_AE003314	+	301	435	4502-4720	219	5'	3	GCATATCACT		CTATACAGCG	TCAATCTAATAGTCTAGTAGT	ACGACTAAGT

Full-length elements: 9/0
 5' truncated elements: 40/6
 3' truncated elements: 0/1
 5'3' truncated elements: 0/14
 Unfinished elements: 16
 Total number of elements: 86
 Total length of elements: 104949

TSD lengths (min/max): 3/16

JuanDm

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank
2R	43C7-43C1	4_AE002787	+	1235891 1240123	1-4243	4243	F	12	AAATTATATT	TAAATTCATTAC	ACAGTCTTCG	CAAATAAAATAAAATAAA	TTACCAGGAG
X	7D2-7D5	2_AE002566	-	1828981 1833212	1-4243	4243	F	12	TATTTGAATC	TTAAATATTATG	TCAGTCTTCG	TTAAATAAAAAATAAA	CAGATACGTA
X	13B-13C1	1_AE002593	+	1591855 1596087	1-4243	4243	F	13	TGTGAGCCAC	ATTGCGATGACTA	CAGTCTTCGA	AAATAAATAAATAAATAA	TTCTCGTGCG
X	20A5-20	0_AE002629	+	268307 272538	1-4242	4242	F	13	AAATATGCACA	TAATGTTGTTTCG	GTGTCTTCGA	GCACAAATAAATAAATAA	TTCTGTGGCA
2L	24D-24D1	0_AE002638	+	874492 877244	1482-4242	2761	F	14	ATGCAATTTT	AAAAGCAAAACAAA	CGGTCTTAAAT	AAATTAATAAATAAATAA	CACCTTGTGA
3R	88E-88E8	2_AE002708	-	1363833 1366823	1-4243	4243	F	15	AAAGCPTTAA	ATTACTGCTTATTAC	AGTCTTCGAC	AAATAAATAAATAAATAA	CTTTTCGGGA
3R	82C5-82A4	0_AE002681	+	1923410 1923933	372-5401	5030	?	0	NNNNNNNNNN		TTATAAATTA	CAAATAAATAAATAAATA	TTAATAAAAA
3L	75A7-74F1	0_AE002602	+	2582603 2583169	3724-4243	520	5'.	13	AAATTTAATT	ATTTAGTGTTTTC	CACGTACCC	AAATAAATAAATAAATAA	AGCTAAAAAG

Full-length elements: 5/0
 5' truncated elements: 2/0
 3' truncated elements: 0/0
 5'3' truncated elements: 0/0
 Unfinished elements: 1
 Total number of elements: 8
 Total length of elements: 25026
 TSD lengths (min/max): 12/15

Waldo-A

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank
2L	31A-31B3	1_AE002690	-	2182875 2188091	217-5408	5192	5'.	5	CACACCACT	AGATA	TAAGCAGCT	ATAATAAAAAAAAAAAAAA	GCACCTCTATG
2L	32B-32C	1_AE002690	+	2907119 2908673	3850-5407	1558	5'.	15	TGACGGGCC	AAGGGCACAGGACGA	TACGGAATGG	ATAATAAAAAAAAAAAAAA	ACAAGGTTCA
3R	98B-98A	6_AE002708	+	2003321 2006599	2087-5409	3323	5'.	0	CTAACCCAC		CCACTCCAC	TAAGTCAAATAAATAAATAA	CACACACACA
3R	83A6-82E4	0_AE002681	+	989371 994362	372-5401	5030	5'.	14	TACATACTAG	ATGCAAGCGAAAAG	TAGTGTGTCT	GTCAAATAAATAAATAAATA	GACTATGGAA
3R	84A2-?	0_AE002699	-	1278982 1281244	3146-5409	2264	5'.	26	CACACACACA	ACACACACACACACAC	TGTTACCAAA	AAAAAAAAAAAAAAAAAAAA	AAAGTCAAAC
3L	70F2-70E1	1_AE002602	-	2560842 2562637	3606-5403	1798	5'.	10	GTCGGGCCCC	CATTAGCAGC	CTAGCCTAAC	TCAAATAAATAAATAAATAA	TTGTAAAAAC
3R	88A4-88B1	2_AE002708	+	212167 212167	3278-5409	2132	5'.	14	TACATCTGTA	ATATATGCACATAT	GCACGAACT	AAAAAAAAAAAAAAAAAAAA	AGCCAGCGAT
3L	65C-65B5	4_AE002602	+	1623583 1623949	5042-5408	367	5'.	15	CACACATATC	ACACGTACTCTGGC	ACATCCAACA	AAAAAAAAAAAAAAAAAAAA	TCACACATGG
?	?	0_AE003116	-	399 3588	411-5176	4766	5'3'	0	AAACAGAACC		AATAAAAATA	GCCCTCATGGACTCACAAAG	TCATACCTTG
?	?	0_AE002665	-	105237 108002	1-5409	5409	F	11	CACACACACA	ACCCGTTGGAG	ACCAAGTCTA	AAAAAAAAAAAAAAAAAAAA	CGCAGAGTGG
2R	44D4-44D	4_AE002787	+	189616 191230	3743-5409	1667	5'.	15	CAATACACAA	ACACACACACACACA	CGTCCAATTG	GTCAAATAAATAAATAAATA	TAGTGAGCAG
?	?	0_AE002751	-	57160 61158	1112-5303	4192	5'3'	13	TTGTGAGCC	TTCTAACGCCAC	GGAAGACCAA	AAAAAAAAAATAAATAAATA	AAACCGCACA
?	?	0_AE002751	-	64862 65166	776-1080	305	5'3'	0	AATCTCGGTT		GCCTCTTAACTCTCAGCCTT	GTCTTAATAAATAAATAA	ATTTTACATG
?	?	0_AE002805	+	3007 6264	4-5260	5257	.	16	GCGTSTAATA	AAGATTAGATTCTAAG	GAAGACCAAG	GTGCAATAAATAAATAAATA	CTATCAAGTA
?	?	0_AE002700	-	23296 25687	1683-5310	3628	5'3'	0	CGGCCGCTTT		TTGAGACGTA	AGGCATAACTCCAATAGGCCT	GTCCATTATT
?	?	0_AE002777	+	12782 15629	1989-5409	3421	5'.	0	GGTGAAGCTG		CCACAATGCC	AAAAAAAAAAAAAAAAACAAAGA	CAAACAATAA
X	20A5-20	0_AE003166	-	843 4391	696-5408	4713	5'.	14	GATCTGATTT	AGACAACATGGAA	GACAAGTCT	TCGAATAACAAAATAAATAA	ACGATTAATG
2R	41F11-41C	0_AE002629	+	258229 260985	1-4959	4959	.	4	CCTTTGTCTC	GGAG	ACCAAGTCTA	CCTAGTGAATAGCTGGCATG	CTGGACACA
2R	41F11-41C	0_AE002769	-	598287 598956	3955-5150	1196	5'3'	7	GGTTTTTCCC	AAGGATC	TGGGGAACAT	AAAAGGCTAAAATAGGGGAA	GGATCTGTTA
2R	41F11-41C	0_AE002769	-	649497 650000	4802-5303	502	5'3'	0	AGGTTTAAGA		TCCTCACAAAG	AGTACGCTAGGCAATAATCCCTA	CCTACGGACA
2R	41F11-41C	0_AE002769	-	655047 659167	69-4448	4380	5'3'	4	CGATCCTAAT	AACT	GATATAGGGT	TCCCGCTGGCAACATCCCGC	CTTGTATTCG
2R	41F11-41C	0_AE002769	-	704697 705459	3349-4111	763	5'3'	0	AGATACTAAT		GGACAAGATG	CGATTGCTACTGTCTCCACT	ACACTGTGGT
2R	41F11-41C	0_AE002769	+	708966 711310	27-2813	2787	5'3'	7	GTGTTTTTAA	ACAAGCA	TGGACGAAAT	CTATATATATATATACAA	CATTGTAGCA
2R	41F11-41C	0_AE002769	-	751906 756299	929-5409	4481	5'.	0	ACACACACAT		CTTCGGACCT	AAAAAAAAAAAAAAAAAAAA	CAGGGCTCC
2R	41F11-41C	0_AE002769	-	866975 868868	679-3841	3163	5'3'	0	TGAGACGTAA		CATACGTGTG	TGTCCCATGGTCGATAAGGA	AGCTGGGCCA
2R	41F11-41C	0_AE002769	-	989689 990632	324-1283	960	5'3'	5	TCTTAAGTAA	AGAGA	AGATTCAATA	GGAGAGGAAAGCGGAAGGC	CGGGTAGGC
2R	41F11-41C	0_AE002769	-	991273 991477	324-529	206	5'3'	0	TCTCTAAGT		AAAGAGAAGA	CTGCACGCTCTATTCTAAGA	CATTGCACAG
2R	41F11-41C	0_AE002769	-	992120 992324	324-529	206	5'3'	0	TCTCTAAGT		AAAGAGAAGA	CTGCACGCTCTATTCTAAGA	CATTGCACAG
2R	41F11-41C	0_AE002769	-	995474 996688	2324-3573	1250	5'3'	0	AGGAACATGC		GAATCACCTA	GGAAAATGTTCCGAACATATC	AAAAGCCTTG
2R	41F11-41C	0_AE002769	-	1013090 1014952	703-3820	3118	5'3'	0	AAGGGAACC		TCCGGAACC	TCCGAGCCATAAATCTATGG	TACCTGAGGA
2R	41F11-41C	0_AE002769	+	1108778 1109160	5024-5406	383	5'.	0	CATTAGTTGG		GAGCAGCAGC	TAAAATAAAAAATAAAAA	CCGGAGCATT
2R	41F11-41C	0_AE002769	-	1139890 1140817	3387-4394	1008	5'3'	0	TCGTAATTTA		GGAGTTGAGT	CACGAAACCAATGATACCAAT	GATTTGATGGT
2R	41C-?	0_AE002769	-	1336802 1339555	611-5394	4784	5'3'	0	CCGTAGCCCG		AAITGATGGA	CGTAAGTCGAATAAATAAATA	TCCAATCGCA
2L	41C-39E3	0_AE002725	+	36156 38036	1934-5176	3243	5'3'	0	AGCGTCAAAA		CAGCAGCTTA	GAGGGCCATGGACTACCGAAG	TCCATACCTC
2L	40A4-?	0_AE002725	+	705501 705660	4972-5281	310	5'3'	0	TTGTTATTCT		GTGTCTTTTG	AGCACGTGGAGATTTTTGTTT	CGCGAGTCA
?	?	0_AE002590	-	301 2002	1212-4352	3141	??	0	NNNNNNAAAA		CCCAAAGTTC	TAGCTAGACTCATGCCCAACG	Tnnnnnnnnn
3R	86D-86D1	1_AE002708	+	225812 226441	84-714	631	5'?	0	CACACACACA		TTCCTGGGAG	ACCAGAGGAGTCGGTAAACCG	NNNNNNNNNN
3R	86D-86D1	1_AE002708	+	230478 230927	4957-5409	453	?	0	NNNNNNNNNN		ATGATGGCGA	TAAAAAATAAATAAATAAACA	TGTCGCTGTG
?	?	0_AE002705	+	1576 3674	1970-5403	3434	5'.	0	AGATGCTCTC		ATACGGTTAG	AAAAAAAAAAAAAAAAACACCTAAA	TTCACAATAC
?	?	0_AE002752	+	964 2988	3-4114	4112	.	3	AAATTTTTTT		GGACAAGTCT	TTGGAGCTGCCATCCATGGC	AGCACTACTA
?	?	0_AE002740	-	301 1646	103-3876	3774	?	0	nnnnnnnnnA		TGGCGAACC	TAAACCAACGGAGCCGGCCCA	AAAAAATACC
3L	70C5-70A	2_AE002602	-	690654 691133	2-481	480	?	0	CATATGTTAG		GGGACGAAAT	TCCAGCGGCTGGTGCCTAAGC	NNNNNNNNNN
3L	69F6-69D	2_AE002602	+	1340272 1345294	1-5409	5409	F	14	CAGAAGCTGT	AGGACATCCCACA	GGGACGAAAG	AAAAAAAAAAAAAAAAAAAA	TTACTCCACT
2R	49B12-48F5	2_AE002787	-	2212941 2213353	4996-5409	414	?	0	NNNNNNNNNN		ATTATCATTA	TAAAAAATAAATAAATAAATA	AAAAAATAAA
2R	49B12-48F5	2_AE002787	-	2214863 2215285	3325-3747	423	5'?	0	CTCCACTTTT		CGCATCAAAC	AGGAAGGAATCTGCGCAATT	NNNNNNNNNN
?	?	0_AE003091	-	11380 12809	2555-4359	1805	5'3'	0	GCCTGAGGCA		TAATGCTGAA	TATGTTGGCAGACGCGAGGC	ATGGAGCTG
?	?	0_AE002896	-	14931 16487	1171-4273	3103	5'3'	0	GACTGAGGAA		AAAAGCCTAC	TGTAATGATAGTGACAATAT	TAAITTTATTT

?	?	0_AE002760	+	5251	5592	21-363	343	5'3'	0	TTCCATCCAT		CGTGAAGACA	AAATCTTTAAATTTAATTTCA	TACTGGTTCC
X	17E-17E	2_AE002593	-	1956702	1958663	811-5232	4422	5'3'	4	ATCAGCGCCT	GTCC	GTGGACATCT	CATCGAAGTCATACAATGGCA	CGGTGAGCGT
?	?	0_AE002902	+	301	672	1660-2337	678	?3'	0	nnnnnnnnnn		AGCAGAGGAG	TTGCGGGGTATCGCTTTTGGC	CCAGAGGCCG
?	?	0_AE002586	-	369	1106	3878-5006	1129	?3'	0	nnnnnnTGGC		GCTCAAAAGC	CCTTATCATTAATATGATGAA	CGGAGTCCGA
?	?	0_AE003100	-	301	392	5141-5409	269	5'1'	0	TACGCTTAGT		GCCCGTAATA	AAAAAGACAAACATGGAAACA	ATAAATGTTG
?	?	0_AE003100	-	34010	34785	2528-3396	869	5'3'	0	GGGAATCAGA		TAGACGCTAT	TTGTTAAAGCAGTCGGTGGAT	TAAGATATCC
?	?	0_AE002943	-	1561	2242	3733-4427	695	5'3'	0	TCGTATATAC		GAATACTGCG	GGTAGCAAAGGCTTCGCCACT	AGCAGGGGTT
?	?	0_AE003230	-	301	543	1-543	543	.?	0	AATGTTCGGG		GGGACGGAAG	TCCGTAAAAGCCAGGGGGAAG	Tnnnnnnnnnn
?	?	0_AE003151	+	658	908	684-1233	550	5'2'	0	TGCATGTGCA		GTGATCCCCC	CAAAAGTCCAGTCGCCCAAGC	nnnnnnnnnn
?	?	0_AE002808	+	2631	2982	4600-5212	613	5'3'	0	GCAATGCCAC		AGCAGGGGCTT	TGGCCTCACATCCTGCTCATC	CTGTTCATTC
?	?	0_AE002688	-	14380	15021	4418-5291	874	5'3'	0	CGGCCAGGAA		CTGCTGGTGG	GGTTTTTGGTTTTAGTACGCAG	TTTATGAATC
3L	17E-77B1	0_AE002602	-	3215	4504	452-3669	3218	5'3'	0	TATTTAATTT		ATCATCCTCT	AAATAGTCCCTGGACGCTCTC	GGACGCAATG
X	19F-19F3	0_AE002620	+	343445	343899	4954-5406	453	5'1'	0	CTCTTAGGTT		GCCATGATGT	TAATAAATGATAATAATAATA	TGATAGCAGA
X	5E8-5E	2_AE002566	+	89028	89818	293-5388	5096	5'3'	7	CACACACACA	ACACACA	CGACAAGTGT	TTCTGCGCTATATAAAAAAA	GATGCATGGA
X	6A2-6A	2_AE002566	-	238651	243433	16-5409	5394	5'1'	19	CACATACACA	ACACACACACACACAC	GACGACAGGA	TAATAAAAAAATAAAAAAATA	AGCAAAACAGA
?	?	0_AE002918	-	28782	29233	4953-5409	457	5'1'	0	GCTATGGCTA		GGCTATGTTG	TCGAGTTATAATAAAAAAATA	CACACACACC
?	?	0_AE002580	+	301	618	4752-5409	658	?	0	nnnnnnnnnn		ACCCAGTTTC	TAATAATAAAAAAATAAATAA	CAGAAAAGGG
?	?	0_AE002806	-	3006	3303	2364-3038	675	?3'	0	nnnnnnnnnn		CTGCTATGCT	CCACGCGGAGGCTCTGGAGG	CAAAGCCATA
?	?	0_AE002644	+	301	515	3352-3657	306	5'3'	0	CCAAGCAAAG		CAGATGGTAT	TTCCGGAAAGGAAAGAGTAGT	GACCTGCAAT
?	?	0_AE003085	+	301	442	4718-5111	394	5'3'	0	CAGCTCATCC		AGAGATGACG	GCGAAGAATCTCTATCTCAGCG	CTTTTAATTA
?	?	0_AE002703	+	301	386	5011-5409	399	?	0	nnnnnnnnnn		TGAAGCCGCT	CAAAATAAATAAAAAAATAA	TCATTGCTGT
?	?	0_AE002837	+	10364	10968	1157-2323	1167	5'3'	0	TAAACACATA		AAAAAGGCCCT	TGGCAGCCTAACTTATGCGGG	TAAGTAAGAG
?	?	0_AE002653	+	2172	2500	2493-2821	329	5'2'	0	CACACTAACA		CACCCACAC	ATCATATCAATTCCTGGAAA	NNNNNNNNNN
?	?	0_AE003040	+	12802	13087	2050-2343	294	5'3'	4	TTACGAAAGA	GTTA	GCTCAACCTA	GCGGGTACGTCATTTGTTGAC	CCTTTATCAG
?	?	0_AE002960	-	19200	19647	4229-5272	1044	??	0	nnnnnnnnCC		AAGACTCCCC	GGACTAAAGGCACACGGGAGG	NNNNNNNNNN
?	?	0_AE002919	-	2273	2495	3757-3987	231	5'3'	0	GATGGCTAAA		GACAGAAGAA	ATGTACGATGTCATTTTGTG	TGACGATGTG
?	?	0_AE003098	+	301	287	4746-5032	287	?3'	0	nnnnnnnnnn		ACCCTAACCC	GTGGACGTGTAAGTCCAAAGA	GTCTCTCTGG
?	?	0_AE003048	+	28233	28555	5087-5409	323	5'1'	0	CTTTAGAGTT		GCGGGCAGAG	AAAAAAACAATAAAAAAATA	TGGGTCCTCA
?	?	0_AE003278	+	2969	3299	1975-2301	327	5'3'	0	GATCACACCT		GGTGAGCTGT	CACGAGTGCCAGATGGACAA	TACGGTAGCC
?	?	0_AE002761	+	3912	4116	1945-2497	553	5'2'	0	ACCCCTTTTC		GATAAGGAGA	GGGCAGTGAATGGGGCAGCA	AAATnnnnnn
?	?	0_AE003118	+	39973	40169	2540-2739	200	5'3'	0	CCCCAGAGCC		GAATGCTGGA	AGTGGCTGCTGAGAGAGGTGG	TCTTACCAGC
?	?	0_AE003109	+	2394	2428	4-338	335	.?	0	CCCTGTATGA		GACGAACTCT	GGCGCGCAATTCAAAATTA	nnnnnnnnnn
?	?	0_AE003017	-	17684	17927	3733-3983	251	5'2'	0	TCGTATATAC		GAATACTGCG	CATCATTACGATGGGATCTT	NNNNNNNNNN
?	?	0_AE003243	-	633	920	4976-5355	380	5'3'	0	TTCAAGACGC		CGTATTGTAGCG	CGGTATTTGATCTGCAATTTG	GTCTCCTTTA
?	?	0_AE003183	+	46763	46957	5207-5408	202	5'1'	0	GACTTCAAAA		CTCATAGAAG	ATAAAAAAATAAAAAACCTAA	TACCCCATAA

Full-length elements: 2/0
5' truncated elements: 10/10
3' truncated elements: 2/1
5'3' truncated elements: 8/29
Unfinished elements: 20
Total number of elements: 82
Total length of elements: 153858
TSD lengths (min/max): 4/26

Waldo-B

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank	
3L	61F-62A1	0_AE002584	+	1404029	1409224	1-5179	5179	F	12	CACACACACA	ACATCCATTGTC	CCGCGTATTT	AAAAAAAAAAAAAAAAAAAAAA	GGGCGCAGTC
3R	92A14-92B2	3_AE002708	+	2971807	2976993	1-5179	5179	F	16	CACGGAACAC	ACAGGTCCTAAATGG	AGTTCGCCGG	ATAAAAAAAAAAAAAAAAAAAA	CAAATGCTTA
3R	85D2-85D10	0_AE002708	-	1561293	1566460	1-5175	5175	F	15	AGCACGCAC	TCCAGCAGAGCGATG	AGAGGTGTGT	AAAAAAAAAAAAAAAAAAAAAA	GCCGAATAAA
?	?	0_AE002870	+	1266	6282	164-5175	5012	5'1'	0	GCGTCACGGT		TCGTAATAAA	GCCATACACAAAATCATAGAA	TGCCTTAGGA
3L	66C-66B10	4_AE002602	+	19315	24509	1-5179	5179	F	13	CACACACACG	ACACAAGAACTG	TGAGGAGACG	AAAAAAAAAAAAAAAAAAAAAA	CACACAGACA
3L	65C-65B5	4_AE002602	+	1623683	1623951	4906-5180	275	5'1'	0	GGCGACTAAA		GGTGAAGGGA	AAAAAAAAAAAAAAAAAAAAAA	CGTACCTTG
?	?	0_AE003116	+	15395	20439	4440-4752	313	5'3'	5	CGTGAACACA	CACA	CACAGCACAA	AGAGGCTTGGTTGCTGCTATG	AGTAAGACGG
2R	50C3-50C4	2_AE002787	+	812315	814233	3266-5180	1915	5'1'	16	TTTTATTCCC	AGATCAGTTTTACCT	TGTCCTTCTG	AAAAAAAAAAAAAAAAAAAAAA	CTCTGCGCTG
2R	49B12-48F5	2_AE002787	-	2212934	2213210	4906-5180	275	5'1'	0	GGCGACTAAA		GGTGAAGGGA	AAAAAAAAAAAAAAAAAAAAAA	CCTCCACTTT
2L	31A-31B3	1_AE002690	-	2182873	2183141	4906-5177	272	5'1'	0	GGCGACTAAA		GGTGAAGGGA	TAATAAAAAAAAAAAAAAAAAA	GATAGCACTC
?	?	0_AE002751	-	1304	3588	1902-4881	2980	5'3'	0	CCCCCTTCTG		CATCATTCAG	CCGTATGTTGGCGGGGCAAGA	TACGTAGGGC
?	?	0_AE002600	+	3908	8862	1-5177	5177	F	0	CGTTCGAGTT		CCGCGTATTT	AAAAAAAAAAAAACAAAAAATA	TACCAAGTAC
2R	41F11-41C	0_AE002769	-	628676	630187	2785-5172	2388	5'1'	0	GGTACTATAT		CAGTGATCTA	AAAAAAGATAAACACCGGAAA	CCGTAAATGT
2R	41F11-41C	0_AE002769	-	645872	648121	1682-4521	2840	5'3'	0	TCCAGACAT		CGACCGGGCT	ACTACATGGGCTGAGTGTGAG	TGGACTACCA
2R	41F11-41C	0_AE002769	-	751900	752173	4906-5179	274	5'1'	0	GGCGACTAAA		GGTGAAGGGA	AAAAAAAAAAAAAAAAAAAAAA	CAGGGGCTCC
2R	41F11-41C	0_AE002769	-	821448	823244	2111-5049	2939	5'3'	0	GGCCATTAAA		CGCGCCTAGC	AGAGCGGGGCTTTTTTAATT	CTCTAAATAA
2R	41F11-41C	0_AE002769	-	1090465	1091325	3266-4230	965	5'3'	0	GTITCTTTCT		AACCTGGTAT	GCTGCCCTATCTGGAGCTGCC	AAATTCGTTT
2R	41F11-41C	0_AE002769	-	1184036	1184844	3448-4363	916	5'3'	0	GCAACCCGCA		ACCCCTCGCG	GGCATTACACAGCCATTGAC	CCCATGCGAG
3R	98B-98A	6_AE002708	+	2006331	2006603	4906-5180	275	5'1'	0	GGCGACTAAA		GGTGAAGGG	TAAGTCAATAATAAAAAAATA	CACACACACA
3L	68C5-68A8	2_AE002602	+	2982758	2983699	4230-5180	951	5'1'	15	ATAAACAGAA	ACACTTATCCATAAG	AAAACTATC	ATAATAAAAAAAAAAAAAAAAA	TAATGGCAAA
3R	84A2-?	0_AE002699	-	1278978	1279249	4906-5180	275	5'1'	0	GGCGACTAAA		GGTGAAGGGA	AAAAAAAAAAAAAAAAAAAAAA	CACACACACA
?	?	0_AE003166	-	835	1113	4902-5180	279	5'1'	8	CCCGGCTTTT	GTAAATGT	CGACTAGAGG	AAAAAGACAAACATGGAAACA	TGCTCTGCTT
?	?	0_AE002760	+	45656	47380	3326-5135	1810	5'3'	0	GGACAACTAT		TGTTATCTGTT	ATCTTTAAGAGATTTTACTTT	TATTTTTGTC
3R	88A4-88B1	2_AE002708	+	211906	212171	4906-5173	268	5'1'	0	GGCGACTAAA		GGTGAAGGG	CAATAATAAAAAAAAAAAAAA	TATATGCACA
?	?	0_AE002665	-	105232	105505	4906-5180	275	5'1'	0	GGCGTATAAA		GGTGAAGGGA	AAAAAATAAAAAAAAAAAAAA	CCCGTTGGAG
?	?	0_AE002777	+	15415	15633	4958-5179	222	5'1'	0	AGGGAGTGGG		GCTCCACATC	AAAAAAAAAACAAAGACAAA	CAATAAAACG
3L	64C2-64C1	1_AE002584	-	1747372	1748152	4397-5180	784	5'1'	0	GAAGGGCTGC		GCTGCACCTA	AATAATAATAAAAAAAAAAAAA	CACATATATA

2R	44D4-44D	4_AE002787	+	190962	191234	4906-5180	275	5'	0	GGCGACTAAA	GGTGAAGGG	TCAATAATAAAAAAAAAAAAA	CACACACACA
?	?	0_AE003100	-	301	614	4683-5120	438	5'3'	0	GTATGCCATT	CGAGGAGAGG	GGTATCTTTAGAAAGATTTTCAT	TTTCCTGCCG
?	?	0_AE003159	+	11060	11772	1776-2425	650	5'3'	0	GGCTACGACG	CCAAGATGCT	ATGTACCTTTTGTAGCAGAG	AGTGGCTAAT
?	?	0_AE003010	+	1476	2451	4116-5166	1051	5'3'	0	TCGTTCAAAA	AGCGGCAATG	CGGATATAAAAAATAAAAAAAAA	GATATTTGTTT
?	?	0_AE002902	-	9450	10549	1648-3124	1477	5'3'	0	GGTGTGCGAT	GTCCAACAAT	TCCAAGCTGCAAAAGAGAAATCA	AGGGTGTCCG
?	?	0_AE002705	+	3441	3685	4932-5180	249	5'	0	TTTCGGGCTG	CGTTAAAGGC	AACACCTAAATTCACAATACA	CTGAGCGATT
?	?	0_AE003344	-	608	1577	3043-4594	1552	5'3'	0	TTTTGCCGCG	TGGCCAACAT	TTTCGAGGGTACCTATCTATGT	GTATTTAAAT
?	?	0_AE003394	+	2303	4014	2432-3454	1023	5'3'	0	CTATACCTTT	TGGCGTGGAA	GAAAGGGCAAATGCACGGTAG	TTAGCAACCG
2L	44D4-39E3	0_AE002725	+	37984	38222	4932-5166	235	5'3'	0	TCCCGGCTTG	CGTAAAAGTC	CGAATAATAAAAAAAAAAAAAAA	CTGCGATGAA
?	?	0_AE003262	+	301	388	4766-5154	389	?'3'	0	nnnnnnnnnn	CGTTTGGGAT	TTCTCGCTATATAATAAAAA	CCTCCTCATA
?	?	0_AE002911	+	7497	7906	3759-4165	407	5'3'	0	GCGTCTGATG	TATGTAACAG	TTGAAGGACCAGAAATGCCGG	GAGTCTCCG
?	?	0_AE002662	+	4450	4811	1838-2196	359	5'3'	0	AAGGTCGCG	CCTGACCTAC	AGCCCGAGCAAATCGAGGAC	CAGGAGTCCT
?	?	0_AE003279	-	301	648	89-454	366	5'3'	0	CCATAATTAA	AATCCACACT	AGTTTGTGGGGGGGGGGGGGG	GTGGCGGCTC
?	?	0_AE003243	-	589	838	4919-5170	252	5'	0	GAGGTGCGTC	CGATGCTGTA	GTTTAGAAAACTTAAATAACA	CTCCTTAGAA
X	19D-19D	0_AE002620	+	1108795	1109036	4920-5164	245	5'3'	0	GCCACGAATC	GCTGGTGGCG	AAAGTTCAATAATAAAAAAAAA	TACCGTGAAA
?	?	0_AE002761	+	3917	4116	1737-2290	554	5'?	0	TTTTCTGATA	GGAGAACATA	GCACCTGGAATGGGCAGCAAA	GTAnnnnnnn
X	5E8-5E	2_AE002566	+	89445	89827	552-5163	4612	5'3'	0	TCCAATTCAC	GAGCGAGGGG	TCCTGCCGTATATAAAAAAAAA	CACACAGAGC
X	6A2-6A	2_AE002566	-	238647	238881	4943-5180	238	?	0	NNNNNNNNNN	AGGAGTGGCG	AAATAAAAAAAAAAAAAAAAAAA	CACACACACA
?	?	0_AE003048	+	28301	28558	4918-5176	259	5'.	0	TGGAAGCGGG	GCCTCATAT	AAAAAAAAACAATAAAAAAAAA	GGGTCCGTA
?	?	0_AE003322	-	43487	43418	4949-5180	232	?	0	nnnnnnnnnn	TACGACGTGG	AAAAAAAAAGCAAAACATGGAAA	CAGTAAATGT
?	?	0_AE002918	-	28778	29049	4906-5177	272	5'.	0	GGCGACTAAA	GGTGAAGGA	TCGAGTTATAATAAAAAAAAA	CACACACACC

Full-length elements: 4/1
5' truncated elements: 3/17
3' truncated elements: 0/0
5'3' truncated elements: 1/18
Unfinished elements: 4
Total number of elements: 48
Total length of elements: 67527
TSD lengths (min/max): 5/16

You

Chr	Cyt	Acc	S	Coordinates	Element	Len	Type	D	5' flank	TSD	Start	End	3' flank	
3L	79E-79F3	0_AE002647	+	2419411	2424785	5-5373	5369	F	10	GTACTGCTGT	ATATTTGCAA	CGTCACCGAC	GTTAAATAAAATAAATAAAA	TTGACCAGCA
X	79E-19F6	0_AE002620	+	56440	61816	2-5373	5372	F	13	TCCTGATTTT	TAAGATGATGTGC	AGTCACCGAC	TGTTAAATAAAATAAATAAAA	TCAAAACAAG
X	1F-1F	0_AE002566	-	1119136	1124111	1-5373	5373	F	11	TATCATTTTT	AAATTTAGATA	CGCAGTCACC	TGTTAAATAAAATAAATAAAA	GTCATACTTT
?	?	0_AE003194	-	3969	8196	14-5373	5360	F	0	AAATCTGTGG	TATATCTCTT	TATATCTCTT	TTTGTAAATAAAATAAATAAAA	TAGTTCCTAA
?	?	0_AE002635	-	2894	6936	284-5103	4820	5'3'	0	TCCTCTGGAG	TACCAGACCT	CCAACTAGGCGGGGACGAGC	CCAACTAGGCGGGGACGAGC	ATTTGAATAA
?	?	0_AE002569	-	308	4611	194-5194	5001	5'3'	6	TGCAAATCCA	AAAAACA	TTCAATATCC	ATTTCTTTAGGCTTATTATAT	ATTAACCCAT
?	?	0_AE003172	+	3125	6529	35-5371	5337	5'.	0	CTTCCAATT	GTGTGCGCTT	TTTGTAAATAAAATAAACA	TTTGTAAATAAAATAAACA	TTTATTGCAA
2L	1F-39E3	0_AE002725	+	53283	55586	1366-5350	3985	5'3'	0	GGCGGAGCA	AATGCTCTAA	TAATTTTGTAAATAAGTAA	TAATTTTGTAAATAAGTAA	ACTCATCCGT
2L	40A4-?	0_AE002725	+	562247	566169	263-4778	4516	5'3'	7	TCAAATTAAC	AAAAATA	AGTGAATAA	GGGTGCTCTAATAGACTCCA	TTTGGGAAC
?	?	0_AE002816	-	1547	2160	4745-5373	629	5'.	0	TTCTAAGTTC	AAAAATCATC	AAAAATCATC	TATTAATAAAAAAAAAATA	AACATGATTA
?	?	0_AE002816	-	3085	3527	3149-3654	506	5'3'	0	AAAAACGCT	AACCTAGAAA	AACCTAGAAA	AATAATATAAATAATTAGAAA	TTAACTTTT
?	?	0_AE002601	-	5105	6524	3853-5373	1521	5'.	12	GCTGCTAAAT	ATATATTTAAGA	AACCTAGATT	CTAATTTGGTTAATTAATAA	GAAGGAACA
?	?	0_AE002975	+	1964	2524	35-904	870	5'?	0	CTTCCAATT	GTGTGCGATT	GTGTGCGATT	ATGCATAGCATTTCTGTGT	nnnnnnnnnn
2R	60F1-60F1	1_AE002575	-	1415337	1416329	3214-4224	1011	5'3'	0	GCTCTTAAAT	ATATTCGTGT	GCTAACCAGACTTCGGAG	GCTAACCAGACTTCGGAG	AGCTCAAAGA
?	?	0_AE002743	-	16097	16307	5024-5231	208	5'3'	0	GGCGACCTT	CATCCGCTTA	CATCCGCTTA	ATATCCAAAATAAACCAA	AACCTGTAG
?	?	0_AE002743	-	19501	20697	3438-4990	1553	5'3'	0	CCCTGGCGG	CGGAACACC	CGGAACACC	AAGCCACTACCGAACGTACA	AGCTCAAAGA
?	?	0_AE003394	-	12422	12869	4493-4940	448	5'3'	0	TAACATTTTA	CACCGACTCA	CACCGACTCA	CACCTCTCATGCACGGTAC	ATGATTTGCC
?	?	0_AE002955	+	2383	2481	115-518	404	5'?	0	GTTACATTA	TATTTATCAT	TATTTATCAT	ACCTCTTACCTGGCTTATG	nnnnnnnnnn
?	?	0_AE002840	+	10667	10634	194-466	273	5'?	0	AATCCAAAA	CATTCAATAT	CATTCAATAT	CCTTCTTGTGGTTAACT	nnnnnnnnnn

Full-length elements: 3/1
5' truncated elements: 1/2
3' truncated elements: 0/0
5'3' truncated elements: 2/7
Unfinished elements: 3
Total number of elements: 19
Total length of elements: 52556
TSD lengths (min/max): 6/13