

APPENDICES

Appendix 1: Frequencies of Significant Heptamers at the level $\alpha = 10^{-5}$

Heptamer	DMR-CGIs	Control CGIs	LOD	<i>p</i> -value
ACACACA	0.0002339	0.0006223	-1.41	2.80E-06
AGGCGGC	0.0000439	0.0003064	-2.80	1.39E-06
CACACAC	0.0003070	0.0007220	-1.23	4.30E-06
CCGCCGC	0.0002485	0.0009788	-1.98	3.28E-13
CGCCGCC	0.0002485	0.0009383	-1.92	2.60E-12
CGCCGCG	0.0001316	0.0004528	-1.78	3.52E-06
CGCGGCG	0.0001316	0.0004528	-1.78	3.52E-06
CGGCGGC	0.0001900	0.0008085	-2.09	8.78E-12
GCCGCCG	0.0001900	0.0008085	-2.09	8.78E-12
GCCGCCT	0.0000439	0.0003064	-2.80	1.39E-06
GCGCCGC	0.0001754	0.0005408	-1.62	1.69E-06
GCGGCGC	0.0001754	0.0005408	-1.62	1.69E-06
GCGGCGG	0.0002485	0.0009788	-1.98	3.28E-13
GGCGGCG	0.0002485	0.0009383	-1.92	2.60E-12
GTGTGTG	0.0003070	0.0007220	-1.23	4.30E-06
TGTGTGT	0.0002339	0.0006223	-1.41	2.80E-06
AAAATTT	0.0001462	0.0000230	2.67	8.81E-07
AAATTTG	0.0001608	0.0000168	3.26	3.73E-09
AAATTTT	0.0001462	0.0000230	2.67	8.81E-07
AAGCCCT	0.0002631	0.0000728	1.85	1.33E-06
ACAACTC	0.0001754	0.0000408	2.10	7.64E-06
ACAATGC	0.0001462	0.0000293	2.32	8.45E-06
ACTAATG	0.0001169	0.0000091	3.68	2.25E-08
AGCAGGG	0.0003801	0.0001454	1.39	5.81E-06
AGCCGAG	0.0008332	0.0001789	2.22	3.12E-21
AGGGCTT	0.0002631	0.0000728	1.85	1.33E-06
ATGAGCA	0.0001900	0.0000381	2.32	6.86E-07
ATGTGAC	0.0002339	0.0000246	3.25	3.90E-12
ATTAGTA	0.0001023	0.0000064	4.00	2.22E-08
ATTGCAA	0.0001169	0.0000172	2.77	4.06E-06
ATTTAGG	0.0001316	0.0000216	2.61	3.59E-06
CAAATTT	0.0001608	0.0000168	3.26	3.73E-09
CAACACG	0.0001608	0.0000327	2.30	4.23E-06
CAGCCGA	0.0003070	0.0000959	1.68	1.64E-06
CATGTGA	0.0001900	0.0000249	2.93	4.08E-09
CATTAGT	0.0001169	0.0000091	3.68	2.25E-08
CCCCCAA	0.0003655	0.0001157	1.66	2.90E-07
CCCCCCC	0.0012133	0.0003368	1.85	1.07E-22
CCCTGCT	0.0003801	0.0001454	1.39	5.81E-06

CCGAGCC	0.0008186	0.0002751	1.57	1.08E-12
CCTAAAT	0.0001316	0.0000216	2.61	3.59E-06
CCTGCTC	0.0004970	0.0001958	1.34	6.41E-07
CGAATGA	0.0001169	0.0000173	2.75	4.40E-06
CGAGCCG	0.0004970	0.0001869	1.41	2.26E-07
CGCCAAC	0.0002339	0.0000656	1.83	5.07E-06
CGCGGCA	0.0004532	0.0001309	1.79	1.95E-09
CGGCTCG	0.0004970	0.0001869	1.41	2.26E-07
CGTGTTG	0.0001608	0.0000327	2.30	4.23E-06
CTCGGCT	0.0008332	0.0001789	2.22	3.12E-21
GAGCAGG	0.0004970	0.0001958	1.34	6.41E-07
GAGCCGA	0.0005409	0.0001335	2.02	8.51E-13
GAGTTGT	0.0001754	0.0000408	2.10	7.64E-06
GCATTGT	0.0001462	0.0000293	2.32	8.45E-06
GCCGAGC	0.0009648	0.0002779	1.80	1.00E-17
GCGCCAA	0.0002777	0.0000818	1.76	1.86E-06
GCGGCAA	0.0003508	0.0000871	2.01	5.16E-09
GCTCGGC	0.0009648	0.0002779	1.80	1.00E-17
GGCTCGG	0.0008186	0.0002751	1.57	1.08E-12
GGGGGGG	0.0012133	0.0003368	1.85	1.07E-22
GTCACAT	0.0002339	0.0000246	3.25	3.90E-12
GTGACAA	0.0002777	0.0000349	2.99	1.56E-12
GTTGGCG	0.0002339	0.0000656	1.83	5.07E-06
GTTGTCA	0.0002339	0.0000317	2.88	1.93E-10
TACTAAT	0.0001023	0.0000064	4.00	2.22E-08
TAGTACA	0.0000877	0.0000100	3.13	7.81E-06
TCACATG	0.0001900	0.0000249	2.93	4.08E-09
TCATTCTG	0.0001169	0.0000173	2.75	4.40E-06
TCGGCTC	0.0005409	0.0001335	2.02	8.51E-13
TCGGCTG	0.0003070	0.0000959	1.68	1.64E-06
TGACAAC	0.0002339	0.0000317	2.88	1.93E-10
TGCCGCA	0.0003216	0.0000868	1.89	8.35E-08
TGCCGCG	0.0004532	0.0001309	1.79	1.95E-09
TGCGGCA	0.0003216	0.0000868	1.89	8.35E-08
TGCTCAT	0.0001900	0.0000381	2.32	6.86E-07
TGTACTA	0.0000877	0.0000100	3.13	7.81E-06
TGTCACA	0.0002193	0.0000332	2.72	2.80E-09
TGTGACA	0.0002193	0.0000332	2.72	2.80E-09
TTGCAAT	0.0001169	0.0000172	2.77	4.06E-06
TTGCCGC	0.0003508	0.0000871	2.01	5.16E-09
TTGGCGC	0.0002777	0.0000818	1.76	1.86E-06
TTGGGGG	0.0003655	0.0001157	1.66	2.90E-07
TTGTCAC	0.0002777	0.0000349	2.99	1.56E-12

Appendix 2: Predicted Novel DMR-CGIs

The genomic coordinates, CGI Score, regional SINE Content, LDA value, EnsEMBL identifier, and EnsEMBL gene description for all of the 218 predicted novel DMR-CGIs are represented. EnsEMBL gene loci that are associated with FANTOM2 Candidate transcripts are highlighted in green.

#	CGI Locus	Score	SINE	LDA	EnsEMBL Gene ID	Gene Description
1	1.107929988-107930208	13.1	0.0167	0.0043	ENSMUSG00000026327	NA
					ENSMUSG00000026328	18 DAYS EMBRYO CDNA, RIKEN FULL-LENGTH ENRICHED LIBRARY, CLONE=1110013A16, FULL INSERT SEQUENCE.
2	1.139715233-139715939	55.5	0.0474	0.2313	ENSMUSG00000019230	LIM/HOMEODOMAIN PROTEIN LHX9.
3	1.140669281-140669512	24.1	0.0082	0.2140	ENSMUSG00000026362	COMPLEMENT FACTOR H-RELATED PROTEIN.
4	1.140750137-140750383	8.1	0.0089	0.0165	ENSMUSG00000033898	COMPLEMENT FACTOR H-RELATED PROTEIN.
5	1.145642591-145642940	23.1	0.0260	0.0390	ENSMUSG00000026357	REGULATOR OF G-PROTEIN SIGNALING 18 (RGS18).
6	1.167571950-167572874	91.7	0.0719	0.4435	ENSMUSG00000026563	HYPOTHETICAL 37.4 KDA PROTEIN.
7	1.168898960-168903083	180.0	0.0636	1.5803	ENSMUSG00000026686	LIM HOMEODOMAIN-CONTAINING TRANSCRIPTION FACTOR.
8	1.191520093-191526544	113.4	0.0617	0.7975	ENSMUSG00000010175	HOMEOBOX PROSPERO-LIKE PROTEIN PROX1 (PROX 1).
9	1.34631926-34633988	59.0	0.0641	0.1208	ENSMUSG00000026131	BULLOUS PEMPFIGOID ANTIGEN 1-B.
10	1.44310462-44310729	40.7	0.0444	0.0818	ENSMUSG00000026052	NA
11	1.44313593-44313893	40.4	0.0417	0.1036	ENSMUSG00000026052	NA
12	1.4500872-4506849	255.4	0.0745	2.3870	ENSMUSG00000025902	TRANSCRIPTION FACTOR SOX-17.
13	1.5575123-5575413	20.2	0.0196	0.0629	ENSMUSG00000025905	KAPPA-TYPE OPIOID RECEPTOR (KOR-1) (MSL-1).
14	1.76346798-76349491	92.9	0.0979	0.2184	ENSMUSG00000006576	ANION EXCHANGE PROTEIN 3 (NEURONAL BAND 3-LIKE PROTEIN).
					ENSMUSG00000026213	NA
					ENSMUSG00000032968	INHIBIN ALPHA CHAIN PRECURSOR.
15	2.110630098-110632418	49.9	0.0464	0.1734	ENSMUSG00000041693	BRAIN-DERIVED NEUROTROPHIC FACTOR PRECURSOR (BDNF).
16	2.110646455-110648177	37.6	0.0487	0.0054	ENSMUSG00000041693	BRAIN-DERIVED NEUROTROPHIC FACTOR PRECURSOR (BDNF).
17	2.148392152-148395933	143.6	0.0638	1.1409	ENSMUSG00000037034	PAIRED BOX PROTEIN PAX-1.
18	2.149075615-149080794	175.8	0.0661	1.5063	ENSMUSG00000037025	HEPATOCTE NUCLEAR FACTOR 3-BETA (HNF-3B).
19	2.149441396-149442253	48.1	0.0582	0.0439	ENSMUSG00000027437	THROMBOMODULIN PRECURSOR (FETOMODULIN) (TM).
20	2.162898605-162901835	158.3	0.0652	1.3042	ENSMUSG00000027413	PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, T.
21	2.165117351-165120836	78.8	0.0877	0.1429	ENSMUSG00000040164	K+ VOLTAGE-GATED CHANNEL, SUBFAMILY S, 1.
22	2.18817259-18822395	189.8	0.0831	1.5189	ENSMUSG00000026739	POLYCOMB COMPLEX PROTEIN BMI-1.
23	2.25854939-25860390	121.7	0.1335	0.2388	ENSMUSG00000026942	TNF RECEPTOR ASSOCIATED FACTOR 2 (TRAF2).

					ENSMUSG00000036504	NA
24	2.55961454-55962223	42.2	0.0382	0.1562	ENSMUSG00000026824	G PROTEIN-ACTIVATED INWARD RECTIFIER POTASSIUM CHANNEL 1 (GIRK1) (POTASSIUM CHANNEL, INWARDLY RECTIFYING, SUBFAMILY J, MEMBER 3) (INWARD RECTIFIER K+ CHANNEL KIR3.1) (KGA) (KGB1).
25	2.57640962-57642961	101.9	0.0699	0.5836	ENSMUSG00000026826	ORPHAN NUCLEAR RECEPTOR NURR1 (NUR-RELATED FACTOR 1).
26	2.72320504-72325498	130.5	0.1218	0.4514	ENSMUSG00000041911	HOMEBOX PROTEIN DLX-1.
27	2.74106634-74116088	442.8	0.1133	4.2829	ENSMUSG00000008226	NA
28	2.75516613-75530035	613.6	0.0701	6.7331	ENSMUSG00000001817	HOMEBOX PROTEIN HOX-D10 (HOX-4.5) (HOX-5.3).
					ENSMUSG00000001819	HOMEBOX PROTEIN HOX-D13 (HOX-4.8).
					ENSMUSG00000001823	HOMEBOX PROTEIN HOX-D12 (HOX-4.7) (HOX-5.6).
					ENSMUSG00000042482	HOMEBOX PROTEIN HOX-D9 (HOX-4.4) (HOX-5.2).
					ENSMUSG00000042499	HOMEBOX PROTEIN HOX-D11 (HOX-4.6) (HOX-5.5).
29	2.75543059-75555527	644.5	0.0365	7.4138	ENSMUSG00000001815	HOMEBOX EVEN-SKIPPED HOMOLOG PROTEIN 2 (EVX-2).
					ENSMUSG00000027102	HOMEBOX PROTEIN HOX-D8 (HOX-4.3) (HOX-5.4).
					ENSMUSG00000042464	HOMEBOX PROTEIN HOX-D4 (HOX-4.2) (HOX-5.1).
					ENSMUSG00000042482	HOMEBOX PROTEIN HOX-D9 (HOX-4.4) (HOX-5.2).
30	2.75565849-75573593	83.9	0.0230	0.7972	ENSMUSG00000042453	HOMEBOX PROTEIN HOX-D3 (HOX-4.1) (MH-19).
31	2.80334667-80337688	194.7	0.0355	2.0146	ENSMUSG00000034701	NEUROGENIC DIFFERENTIATION FACTOR 1 (NEUROD1).
32	2.84864734-84865841	47.4	0.0394	0.2088	ENSMUSG00000034552	NA
33	2.94622704-94627599	110.6	0.0672	0.7132	ENSMUSG00000040310	HOMEBOX PROTEIN ARISTALESS-LIKE 4 (ALX-4).
34	2.9912809-9918564	211.8	0.1344	1.3131	ENSMUSG00000015619	TRANS-ACTING T-CELL SPECIFIC TRANSCRIPTION FACTOR GATA-3.
					ENSMUSG00000025783	NA
35	3.129708234-129713310	173.3	0.0610	1.5237	ENSMUSG00000028023	PITUITARY HOMEBOX 2 (ORTHODENTICLE-LIKE HOMEBOX 2) (SOLURSHIN) (ALL1 RESPONSIVE PROTEIN ARP1) (BRX1 HOMEOPROTEIN) (PAIRED-LIKE HOMEODOMAIN TRANSCRIPTION FACTOR MUNC 30).
36	3.131661313-131667880	96.6	0.1087	0.1640	ENSMUSG00000027985	LYMPHOID ENHANCER BINDING FACTOR 1 (LEF-1).
37	3.154910223-154915320	308.0	0.0688	3.0720	ENSMUSG00000028201	LIM/HOMEBOX PROTEIN LHX8 (L3).
38	3.17768553-17771839	35.8	0.0335	0.1223	ENSMUSG00000039527	BASIC HELIX-LOOP-HELIX DOMAIN CONTAINING, CLASS B5
39	3.29825267-29826282	53.1	0.0388	0.2819	ENSMUSG00000027684	ECOTROPIC VIRUS INTEGRATION 1 SITE PROTEIN.
40	3.45477661-45482475	184.8	0.0355	1.8952	ENSMUSG00000027730	NA
					ENSMUSG00000037927	PROTODADHERIN 10
41	3.55275165-55278987	148.6	0.0974	0.8924	ENSMUSG00000036615	REGULATORY FACTOR X-ASSOCIATED PROTEIN.
42	3.60382842-60383258	24.1	0.0056	0.2384	ENSMUSG00000036976	NA
43	3.67580670-67584119	79.9	0.0740	0.2814	ENSMUSG00000027833	SHORT STATURE HOMEBOX PROTEIN 2 (HOMEBOX PROTEIN OG12X) (OG-12) (PAIRED FAMILY HOMEODOMAIN PROTEIN PRX3).
					ENSMUSG00000034544	NA

44	3.96544118-96552984	384.2	0.1066	3.6401	ENSMUSG00000038445	HISTONE H3 (H3.2).
45	3.96791854-96794377	100.1	0.1132	0.1640	ENSMUSG00000038403	NA
46	4.11571701-11574111	147.0	0.0577	1.2375	ENSMUSG00000040642	NA
47	4.43550588-43552290	117.2	0.1264	0.2500	ENSMUSG00000014030	PAIRED BOX PROTEIN PAX-5 (B-CELL SPECIFIC TRANSCRIPTION FACTOR) (BSAP).
48	4.51921727-51922560	65.4	0.0438	0.3836	ENSMUSG00000015243	ATP-BINDING CASSETTE, SUB-FAMILY A, MEMBER 1 (ATP-BINDING CASSETTE TRANSPORTER 1) (ATP-BINDING CASSETTE 1) (ABC-1).
49	4.79784817-79794020	243.5	0.0544	2.4289	ENSMUSG00000008575	NUCLEAR FACTOR 1 B-TYPE (NUCLEAR FACTOR 1/B) (NF1-B) (NFI-B) (NF-1/B) (CCAAT-BOX BINDING TRANSCRIPTION FACTOR) (CTF) (TGGCA-BINDING PROTEIN).
50	4.93781858-93782066	22.1	0.0268	0.0190	ENSMUSG00000028571	SIMILAR TO CYP2J4.
51	5.105394792-105400633	143.0	0.1236	0.5851	ENSMUSG00000029275	ZINC FINGER PROTEIN GFI-1 (GROWTH FACTOR INDEPENDENCE-1).
52	5.127399336-127400484	88.3	0.0913	0.2243	ENSMUSG00000034268	40S RIBOSOMAL PROTEIN S16.
53	5.18627019-18627391	28.6	0.0246	0.1184	ENSMUSG00000040003	ACTIVIN RECEPTOR INTERACTING PROTEIN 1.
54	5.20644740-20645372	30.7	0.0372	0.0279	ENSMUSG00000038490	REELIN PRECURSOR (EC 3.4.21.-) (REELER PROTEIN).
55	5.34282539-34284302	115.4	0.0576	0.8581	ENSMUSG00000029097	NA
					ENSMUSG00000029098	ACYL-COENZYME A OXIDASE 3, PEROXISOMAL (EC 1.3.3.6) (PRISTANOYL-COA OXIDASE).
56	5.36724455-36728222	107.3	0.0783	0.5719	ENSMUSG00000039404	HOMEBOX PROTEIN MSX-1 (HOX-7) (HOX-7.1).
57	5.40734938-40740238	268.3	0.0420	2.8401	ENSMUSG00000029129	HOMEBOX PROTEIN NKX-3.2 (BAGPIPE HOMEBOX PROTEIN HOMOLOG 1).
58	5.70959108-70959357	21.8	0.0228	0.0532	ENSMUSG00000029212	GAMMA-AMINOBUTYRIC-ACID RECEPTOR BETA-1 SUBUNIT PRECURSOR (GABA(A) RECEPTOR).
59	5.71184005-71184388	27.9	0.0269	0.0879	ENSMUSG00000029212	GAMMA-AMINOBUTYRIC-ACID RECEPTOR BETA-1 SUBUNIT PRECURSOR (GABA(A) RECEPTOR).
60	5.95527555-95528188	36.0	0.0378	0.0860	ENSMUSG00000029338	HYPOTHETICAL 24.5 KDA PROTEIN (FRAGMENT).
61	6.127436907-127437245	39.7	0.0465	0.0512	ENSMUSG00000038097	VOLTAGE-GATED POTASSIUM CHANNEL PROTEIN KV1.5 (KV1-5).
62	6.127540710-127542681	51.5	0.0620	0.0502	ENSMUSG00000003015	VOLTAGE-GATED POTASSIUM CHANNEL PROTEIN KV1.1 (MK1) (MBK1).
63	6.129836345-129836967	29.2	0.0291	0.0843	ENSMUSG00000000248	NA
64	6.130873062-130873277	24.3	0.0139	0.1651	ENSMUSG00000030173	KILLER CELL LECTIN-LIKE RECEPTOR 5 (T-CELL SURFACE GLYCOPROTEIN LY-49E) (LY49-E ANTIGEN).
65	6.17642460-17642693	42.4	0.0527	0.0263	ENSMUSG00000029534	SUPPRESSION OF TUMORIGENICITY 7
66	6.18782659-18784598	30.3	0.0328	0.0633	ENSMUSG00000029517	NA
67	6.23207766-23211246	152.8	0.0743	1.1548	ENSMUSG00000029697	NA
68	6.52593717-52596796	112.1	0.0045	1.3065	ENSMUSG00000029844	HOMEBOX PROTEIN HOX-A1 (HOX-1.6) (HOMEOTIC PROTEIN ERA-1-993) (EARLY RETINOIC ACID 1) (HOMEBOXLESS PROTEIN ERA-1-399).
69	6.52596553-52596796	4.8	0.0038	0.0221	ENSMUSG00000038243	HOMEBOX PROTEIN HOX-A6 (HOX-1.2) (M5-4).
70	6.52601791-52603517	56.4	0.0038	0.6439	ENSMUSG00000000942	HOMEBOX PROTEIN HOX-A4 (HOX-1.4) (MH-3).

					ENSMUSG00000014704	HOMEODOMAIN PROTEIN HOX-A2 (HOX-1.11).
					ENSMUSG00000038243	HOMEODOMAIN PROTEIN HOX-A6 (HOX-1.2) (M5-4).
					ENSMUSG00000038253	HOMEODOMAIN PROTEIN HOX-A5 (HOX-1.3) (M2).
					ENSMUSG00000038270	HOMEODOMAIN PROTEIN HOX-A3 (HOX-1.5) (MO-10).
71	6.52606992-52612049	343.9	0.0055	4.0843	ENSMUSG00000000942	HOMEODOMAIN PROTEIN HOX-A4 (HOX-1.4) (MH-3).
					ENSMUSG00000038236	HOMEODOMAIN PROTEIN HOX-A7 (HOX-1.1) (M6-12) (M6).
					ENSMUSG00000038243	HOMEODOMAIN PROTEIN HOX-A6 (HOX-1.2) (M5-4).
					ENSMUSG00000038253	HOMEODOMAIN PROTEIN HOX-A5 (HOX-1.3) (M2).
					ENSMUSG00000038270	HOMEODOMAIN PROTEIN HOX-A3 (HOX-1.5) (MO-10).
72	6.52614853-52615076	8.2	0.0107	0.0008	ENSMUSG00000000942	HOMEODOMAIN PROTEIN HOX-A4 (HOX-1.4) (MH-3).
					ENSMUSG00000038227	HOMEODOMAIN PROTEIN HOX-A9 (HOX-1.7).
					ENSMUSG00000038236	HOMEODOMAIN PROTEIN HOX-A7 (HOX-1.1) (M6-12) (M6).
					ENSMUSG00000038243	HOMEODOMAIN PROTEIN HOX-A6 (HOX-1.2) (M5-4).
					ENSMUSG00000038253	HOMEODOMAIN PROTEIN HOX-A5 (HOX-1.3) (M2).
73	6.52615998-52621268	262.3	0.0270	2.9054	ENSMUSG00000000942	HOMEODOMAIN PROTEIN HOX-A4 (HOX-1.4) (MH-3).
					ENSMUSG00000038227	HOMEODOMAIN PROTEIN HOX-A9 (HOX-1.7).
					ENSMUSG00000038236	HOMEODOMAIN PROTEIN HOX-A7 (HOX-1.1) (M6-12) (M6).
					ENSMUSG00000038243	HOMEODOMAIN PROTEIN HOX-A6 (HOX-1.2) (M5-4).
					ENSMUSG00000038253	HOMEODOMAIN PROTEIN HOX-A5 (HOX-1.3) (M2).
74	6.61427657-61427934	41.3	0.0212	0.3026	ENSMUSG00000025891	NA
75	6.61465369-61465636	21.4	0.0253	0.0249	ENSMUSG00000025891	NA
76	6.6626082-6628712	129.1	0.0668	0.9397	ENSMUSG00000029755	HOMEODOMAIN PROTEIN DLX-5.
77	6.68701932-68702134	11.1	0.0130	0.0142	ENSMUSG00000029895	IG KAPPA CHAIN V-II REGION VKAPPA167 PRECURSOR.
78	6.78137598-78139829	86.7	0.1026	0.1016	ENSMUSG00000030026	ALPHA-2 CATENIN (ALPHA-CATENIN RELATED PROTEIN) (ALPHA N-CATENIN).
					ENSMUSG00000037682	NA
79	6.89060972-89067216	180.9	0.1074	1.1894	ENSMUSG00000015053	ENDOTHELIAL TRANSCRIPTION FACTOR GATA-2.
80	6.90977417-90978167	23.5	0.0228	0.0730	ENSMUSG00000034468	VN5 (VOMERONASAL RECEPTOR VIRB3).
81	7.127391482-127405249	396.4	0.0527	4.2814	ENSMUSG00000010476	TRANSCRIPTION FACTOR COE3 (EARLY B-CELL FACTOR 3) (EBF-3) (OLF-1/EBF- LIKE 2) (OE-2) (O/E-2).
82	7.13599839-13600074	10.8	0.0121	0.0196	ENSMUSG00000005602	MYOTUBULARIN-RELATED PROTEIN 2 (FRAGMENT).
					ENSMUSG00000008991	CEA13 PROTEIN (FRAGMENT).
83	7.19240894-19241512	46.1	0.0242	0.3316	ENSMUSG00000003017	CYTOCHROME P450 2A12 (EC 1.14.14.1) (CYP11A12) (STEROID HORMONES 7- ALPHA-HYDROXYLASE) (TESTOSTERONE 7-ALPHA-HYDROXYLASE).
84	7.38114850-38115524	22.8	0.0185	0.1045	ENSMUSG00000030476	G PROTEIN-COUPLED RECEPTOR.
85	7.39256410-39259340	205.4	0.1246	1.3264	ENSMUSG00000030507	HOMEODOMAIN PROTEIN DBX.
86	7.46828784-46828999	33.8	0.0329	0.1046	ENSMUSG00000030449	GAMMA-AMINOBUTYRIC-ACID RECEPTOR GAMMA-3 SUBUNIT PRECURSOR (GABA(A) RECEPTOR).
87	7.6640131-6640338	6.8	0.0075	0.0127	ENSMUSG00000000605	CHLORIDE CHANNEL PROTEIN 4 (CLC-4).

					ENSMUSG00000034155	ADULT MALE TESTIS CDNA, RIKEN FULL-LENGTH ENRICHED LIBRARY, CLONE=4930547K11, FULL INSERT SEQUENCE.
88	7.94712714-94712935	14.7	0.0141	0.0481	ENSMUSG00000041946	MITOGEN-ACTIVATED PROTEIN KINASE KINASE 1 INTERACTING PROTEIN 1
89	8.100420881-100421409	13.2	0.0156	0.0159	ENSMUSG00000035880	RNA FOR TYPE IIB INTRACISTERNAL A-PARTICLE (IAP) ELEMENT ENCODING INTEGRASE, CLONE 106 (IAP) (RNA FOR TYPE IIB INTRACISTERNAL A-PARTICLE (IAP) ELEMENT ENCODING INTEGRASE, CLONE 111).
90	8.100424459-100424746	17.3	0.0170	0.0527	ENSMUSG00000035880	RNA FOR TYPE IIB INTRACISTERNAL A-PARTICLE (IAP) ELEMENT ENCODING INTEGRASE, CLONE 106 (IAP) (RNA FOR TYPE IIB INTRACISTERNAL A-PARTICLE (IAP) ELEMENT ENCODING INTEGRASE, CLONE 111).
91	8.104629960-104630191	26.1	0.0252	0.0824	ENSMUSG00000031884	SIMILAR TO CARBOXYLESTERASE 2 (INTESTINE, LIVER).
92	8.104661963-104662473	19.8	0.0196	0.0585	ENSMUSG00000031884	SIMILAR TO CARBOXYLESTERASE 2 (INTESTINE, LIVER).
93	8.128411535-128414389	97.9	0.1151	0.1211	ENSMUSG00000025810	NEUROFILIN-1 PRECURSOR (A5 PROTEIN).
94	8.21535234-21538161	142.4	0.1003	0.7916	ENSMUSG00000031539	ADAPTOR-RELATED PROTEIN COMPLEX AP-3 MU2 SUBUNIT.
95	8.44172592-44173463	80.1	0.0570	0.4398	ENSMUSG00000031646	MOUSE FAT 1 CADHERIN (FRAGMENT).
96	8.44186073-44189712	186.8	0.0559	1.7321	ENSMUSG00000031646	MOUSE FAT 1 CADHERIN (FRAGMENT).
					ENSMUSG00000038952	MELATONIN RECEPTOR TYPE 1A (MEL-1A-R).
97	8.44498250-44499005	41.1	0.0498	0.0373	ENSMUSG00000031640	PLASMA KALLIKREIN PRECURSOR (EC 3.4.21.34) (PLASMA PREKALLIKREIN) (KININOGENIN) (FLETCHER FACTOR).
98	8.91555744-91561784	43.0	0.0559	0.0041	ENSMUSG00000031734	IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-3.
99	8.9936844-9938878	74.1	0.0416	0.5093	ENSMUSG00000031497	TUMOR NECROSIS FACTOR LIGAND SUPERFAMILY MEMBER 13B (B CELL-ACTIVATING FACTOR) (BAFF).
					ENSMUSG00000040396	NA
100	9.38502882-38503084	14.2	0.0157	0.0258	ENSMUSG00000040248	PUTATIVE OLFACTORY RECEPTOR (FRAGMENT).
101	9.56065428-56072433	236.8	0.0984	1.9437	ENSMUSG00000032314	SIMILAR TO ELECTRON-TRANSFER-FLAVOPROTEIN, ALPHA POLYPEPTIDE (GLUTARIC ACIDURIA II).
102	9.75504124-75505553	90.4	0.1004	0.1658	ENSMUSG00000034924	HEPATOCTE NUCLEAR FACTOR 6 (HNF-6) (ONE CUT DOMAIN FAMILY MEMBER 1).
103	9.87409038-87412203	94.3	0.0918	0.2909	ENSMUSG00000032415	NA
104	9.91848564-91852357	139.2	0.0297	1.4004	ENSMUSG00000032368	ZINC FINGER PROTEIN ZIC1 (ZINC FINGER PROTEIN OF THE CEREBELLUM 1).
					ENSMUSG00000036972	ZINC FINGER PROTEIN ZIC4 (ZINC FINGER PROTEIN OF THE CEREBELLUM 4).
105	9.91867752-91870711	155.4	0.0368	1.5305	ENSMUSG00000036972	ZINC FINGER PROTEIN ZIC4 (ZINC FINGER PROTEIN OF THE CEREBELLUM 4).
106	10.103417472-103417775	45.0	0.0474	0.1053	ENSMUSG00000019892	NA
107	10.121627379-121630233	152.2	0.1359	0.5833	ENSMUSG00000034707	NA
108	10.128394146-128398404	67.5	0.0641	0.2238	ENSMUSG00000025399	RETINOL DEHYDROGENASE TYPE 6.
109	10.25395244-25395985	242.2	0.0451	2.4982	ENSMUSG00000019978	BAND 4.1-LIKE PROTEIN 2 (GENERALLY EXPRESSED PROTEIN 4.1) (4.1G).

110	10.35743727-35743941	17.3	0.0199	0.0252	ENSMUSG00000039439	S-ADENOSYLMETHIONINE DECARBOXYLASE PROENZYME 1 (EC 4.1.1.50) (ADOMETDC 1) (SAMDC 1)
111	10.41525848-41527854	99.9	0.1062	0.2267	ENSMUSG00000019821	NA
112	11.11316328-11316706	22.1	0.0240	0.0451	ENSMUSG00000020193	ZONA PELLUCIDA BINDING PROTEIN.
113	11.21593389-21594262	35.5	0.0433	0.0296	ENSMUSG00000020321	MALATE DEHYDROGENASE, CYTOPLASMIC (EC 1.1.1.37).
114	11.5889970-5892641	98.1	0.0538	0.6851	ENSMUSG00000020465	CALMODULIN-DEPENDENT PROTEIN KINASE II BETA M ISOFORM (FRAGMENT).
					ENSMUSG00000020466	CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE TYPE II BETA CHAIN (CAM- KINASE II BETA CHAIN) (EC 2.7.1.123) (CAMK-II, BETA SUBUNIT).
115	11.59486736-59487762	47.8	0.0596	0.0273	ENSMUSG00000020455	TRIPARTITE MOTIF PROTEIN TRIM11.
					ENSMUSG00000020496	UNKNOWN PROTEIN (FRAGMENT).
					ENSMUSG00000036952	TRIPARTITE MOTIF PROTEIN TRIM17 (FRAGMENT).
116	11.97047828-97048047	20.9	0.0262	0.0107	ENSMUSG00000000690	HOMEODOMAIN PROTEIN HOX-B6 (HOX-2.2) (MH-22A).
					ENSMUSG00000038684	HOMEODOMAIN PROTEIN HOX-B3 (HOX-2.7) (MH-23).
					ENSMUSG00000038692	HOMEODOMAIN PROTEIN HOX-B4 (HOX-2.6).
					ENSMUSG00000038700	HOMEODOMAIN PROTEIN HOX-B5 (HOX-2.1) (MU-1) (H24.1).
117	11.97052217-97054059	17.5	0.0101	0.1179	ENSMUSG00000000690	HOMEODOMAIN PROTEIN HOX-B6 (HOX-2.2) (MH-22A).
					ENSMUSG00000038684	HOMEODOMAIN PROTEIN HOX-B3 (HOX-2.7) (MH-23).
					ENSMUSG00000038692	HOMEODOMAIN PROTEIN HOX-B4 (HOX-2.6).
					ENSMUSG00000038700	HOMEODOMAIN PROTEIN HOX-B5 (HOX-2.1) (MU-1) (H24.1).
118	11.97056320-97058384	127.1	0.0050	1.4812	ENSMUSG00000038684	HOMEODOMAIN PROTEIN HOX-B3 (HOX-2.7) (MH-23).
					ENSMUSG00000038692	HOMEODOMAIN PROTEIN HOX-B4 (HOX-2.6).
					ENSMUSG00000038700	HOMEODOMAIN PROTEIN HOX-B5 (HOX-2.1) (MU-1) (H24.1).
119	12.108799297-108799519	15.6	0.0123	0.0753	ENSMUSG00000003771	IG MU CHAIN C REGION.
120	12.108908897-108909473	10.8	0.0015	0.1165	ENSMUSG00000003771	IG MU CHAIN C REGION.
					ENSMUSG00000037192	IG HEAVY CHAIN V REGION 36-65.
121	12.109727905-109728117	14.7	0.0084	0.0991	ENSMUSG00000002716	IG HEAVY CHAIN V REGION 23 PRECURSOR.
122	12.109728895-109729173	8.1	0.0084	0.0203	ENSMUSG00000002716	IG HEAVY CHAIN V REGION 23 PRECURSOR.
123	12.51155681-51158627	151.5	0.0559	1.3091	ENSMUSG00000001497	PAIRED BOX PROTEIN PAX-9.
124	12.52685216-52685629	36.9	0.0328	0.1427	ENSMUSG00000035431	SOMATOSTATIN RECEPTOR TYPE 1 (SS1R) (SRIF-2).
125	13.115198010-115198363	15.4	0.0199	0.0020	ENSMUSG000000021730	HYPERPOLARIZATION-ACTIVATED, CYCLIC NUCLEOTIDE-GATED K ⁺ 1.
126	13.21140069-21142250	66.4	0.0509	0.3309	ENSMUSG000000008648	HISTONE H3.1 (H3/A) (H3/C) (H3/D) (H3/F) (H3/H) (H3/I) (H3/J) (H3/K) (H3/L).
					ENSMUSG00000016909	HISTONE H2B 291B.
					ENSMUSG00000016977	HISTONE H2B F (H2B 291A).
					ENSMUSG00000036577	HISTONE H4.
127	13.21467693-21470325	131.9	0.0669	0.9722	ENSMUSG000000006179	THYMUS-SPECIFIC SERINE PROTEASE PRECURSOR (EC 3.4.-.-).
128	13.22831204-22833551	115.4	0.0645	0.7960	ENSMUSG00000036376	ACTIVATOR OF BASAL TRANSCRIPTION.

129	13.22943293-22945160	91.8	0.0954	0.2273	ENSMUSG00000018084	HISTONE H3.1 (H3/A) (H3/C) (H3/D) (H3/F) (H3/H) (H3/I) (H3/J) (H3/K) (H3/L).
					ENSMUSG00000018094	HISTONE H2B F (H2B 291A).
					ENSMUSG00000018100	HISTONE H1.3 (H1 VAR.4) (H1D).
					ENSMUSG00000018101	HISTONE H2A.G (H2A/G) (H2A.3).
					ENSMUSG00000036243	HISTONE H4.
					ENSMUSG00000036253	HISTONE H3 (H3.2).
					ENSMUSG00000036326	HISTONE H3 (H3.2).
130	13.23154492-23156486	51.3	0.0608	0.0590	ENSMUSG00000006611	HEREDITARY HAEMOCHROMATOSIS PROTEIN HOMOLOG PRECURSOR.
					ENSMUSG00000016575	HISTONE H2A.G (H2A/G) (H2A.3).
					ENSMUSG00000036132	HISTONE H1.1 (H1 VAR.3) (H1A).
					ENSMUSG00000036149	HISTONE H3 (H3.2).
					ENSMUSG00000036173	HISTONE H3 (H3.2).
					ENSMUSG00000036201	HISTONE H4.
131	13.23160436-23162013	86.1	0.0585	0.4976	ENSMUSG00000006611	HEREDITARY HAEMOCHROMATOSIS PROTEIN HOMOLOG PRECURSOR.
					ENSMUSG00000036132	HISTONE H1.1 (H1 VAR.3) (H1A).
					ENSMUSG00000036149	HISTONE H3 (H3.2).
					ENSMUSG00000036173	HISTONE H3 (H3.2).
132	13.23170125-23173292	77.3	0.0622	0.3591	ENSMUSG00000036132	HISTONE H1.1 (H1 VAR.3) (H1A).
					ENSMUSG00000036173	HISTONE H3 (H3.2).
133	13.27591935-27593045	41.0	0.0119	0.3837	ENSMUSG00000017064	NA
134	13.52751878-52756081	289.4	0.0930	2.6253	ENSMUSG00000021469	HOMEODOMAIN PROTEIN MSX-2 (HOX-8.1).
135	13.55311592-55317979	254.6	0.0955	2.1841	ENSMUSG00000021506	PITUITARY HOMEODOMAIN 1 (HOMEODOMAIN PROTEIN P-OTX) (PITUITARY OTX-RELATED FACTOR) (HINDLIMB EXPRESSED HOMEODOMAIN PROTEIN BACKFOOT) (PTX1).
136	13.60496444-60496700	32.0	0.0123	0.2722	ENSMUSG00000021433	CTLA-2-BETA PROTEIN PRECURSOR (FRAGMENT).
					ENSMUSG00000033834	TROPHOBLAST-SPECIFIC PROTEIN PRECURSOR.
137	13.62386305-62396461	335.9	0.0795	3.3092	ENSMUSG00000021466	PATCHED PROTEIN HOMOLOG 1 (PTC1) (PTC).
138	13.69029605-69034427	94.9	0.0219	0.9398	ENSMUSG00000021602	IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-1 (FRAGMENT).
139	13.70335945-70338999	91.1	0.0359	0.7664	ENSMUSG00000021604	IROQUOIS RELATED HOMEODOMAIN 4 (DROSOPHILA).
140	13.75280509-75289493	125.8	0.0364	1.1782	ENSMUSG00000035892	COUP TRANSCRIPTION FACTOR 1 (COUP-TF1) (COUP-TF I).
141	13.75295999-75296808	24.2	0.0208	0.0995	ENSMUSG00000035892	COUP TRANSCRIPTION FACTOR 1 (COUP-TF1) (COUP-TF I).
142	13.88157413-88157619	32.0	0.0397	0.0199	ENSMUSG00000021619	GENE.
143	13.92203897-92209278	320.1	0.0860	3.0592	ENSMUSG00000021685	HOMEODOMAIN PROTEIN ORTHOPEDIA.
144	13.97261000-97264806	334.5	0.0858	3.2335	ENSMUSG00000021647	COCAINE- AND AMPHETAMINE-REGULATED TRANSCRIPT PROTEIN PRECURSOR
145	14.108328953-108329184	33.1	0.0361	0.0665	ENSMUSG00000032891	GLYPICAN-6 PRECURSOR.
146	14.108529702-108529910	24.0	0.0217	0.0894	ENSMUSG00000032891	GLYPICAN-6 PRECURSOR.
147	14.110165101-110167920	88.0	0.0852	0.2761	ENSMUSG00000003953	NA
					ENSMUSG00000022133	NA
					ENSMUSG00000022136	DNAJ (HSP40) HOMOLOG, SUBFAMILY C, MEMBER

						3
148	14.110692385-110692613	19.5	0.0233	0.0201	ENSMUSG00000042021	HEPARAN SULFATE 6-O-SULFOTRANSFERASE 3.
149	14.113365106-113368030	137.8	0.1231	0.5262	ENSMUSG00000025544	TRANSMEMBRANE 9 SUPERFAMILY PROTEIN MEMBER 2 PRECURSOR.
150	14.115910243-115910519	29.5	0.0184	0.1856	ENSMUSG00000025551	FIBROBLAST GROWTH FACTOR-14 (FGF-14) (FIBROBLAST GROWTH FACTOR HOMOLOGOUS FACTOR 4) (FHF-4).
151	14.17101881-17113285	430.8	0.1062	4.2038	ENSMUSG00000021778	NA
152	14.23611440-23618208	147.0	0.0444	1.3596	ENSMUSG00000021994	WNT-5A PROTEIN PRECURSOR.
153	14.44583671-44584386	17.2	0.0033	0.1771	ENSMUSG00000022164	T-CELL RECEPTOR ALPHA CHAIN V REGION 2B4 PRECURSOR.
154	14.49205978-49210930	77.4	0.0590	0.3889	ENSMUSG00000021974	GLIA-ACTIVATING FACTOR PRECURSOR (GAF) (FIBROBLAST GROWTH FACTOR-9) (FGF-9) (HBGF-9).
155	14.58366810-58371481	135.6	0.1121	0.6024	ENSMUSG00000022053	TRANSCRIPTION FACTOR COE2 (EARLY B-CELL FACTOR 2) (EBF-2) (OLF-1/EBF- LIKE 3) (OE-3) (O/E-3) (METENCEPHALON-MESENCEPHALON-OLFACTORY TRANSCRIPTION FACTOR 1) (MET-MESENCEPHALON-OLFACTORY TRANSCRIPTION FACTOR 1) (MET-MESENCEPHAL
156	14.70755874-70761803	88.8	0.0998	0.1523	ENSMUSG00000036422	PROTOCADHERIN 8.
157	14.81042676-81043614	30.7	0.0211	0.1758	ENSMUSG00000035043	SIMILAR TO POLY(A)-BINDING PROTEIN, CYTOPLASMIC 4 (INDUCIBLE FORM).
158	14.9636744-9637251	19.1	0.0100	0.1388	ENSMUSG00000021734	INTERLEUKIN-3 RECEPTOR CLASS II ALPHA CHAIN PRECURSOR.
159	14.9637808-9638354	11.9	0.0100	0.0512	ENSMUSG00000021734	INTERLEUKIN-3 RECEPTOR CLASS II ALPHA CHAIN PRECURSOR.
160	14.9643298-9643587	9.7	0.0100	0.0250	ENSMUSG00000021734	INTERLEUKIN-3 RECEPTOR CLASS II ALPHA CHAIN PRECURSOR.
161	15.103911997-103914453	55.3	0.0505	0.2014	ENSMUSG00000001656	HOMEBOX PROTEIN HOX-C12 (HOX-3.8) (FRAGMENT).
					ENSMUSG00000022484	HOMEBOX PROTEIN HOX-C10 (HOX-3.6).
					ENSMUSG00000036139	HOMEBOX PROTEIN HOX-C9 (HOX-3.2).
162	15.103931300-103932309	8.5	0.0100	0.0097	ENSMUSG00000001656	HOMEBOX PROTEIN HOX-C12 (HOX-3.8) (FRAGMENT).
					ENSMUSG00000001657	HOMEBOX PROTEIN HOX-C8 (HOX-3.1) (M31).
					ENSMUSG00000022484	HOMEBOX PROTEIN HOX-C10 (HOX-3.6).
					ENSMUSG00000036139	HOMEBOX PROTEIN HOX-C9 (HOX-3.2).
163	15.103943516-103943743	12.4	0.0008	0.1416	ENSMUSG00000001657	HOMEBOX PROTEIN HOX-C8 (HOX-3.1) (M31).
					ENSMUSG00000001661	HOMEBOX PROTEIN HOX-C6 (HOX-3.3) (HOX-6.1).
					ENSMUSG00000022484	HOMEBOX PROTEIN HOX-C10 (HOX-3.6).
					ENSMUSG00000022485	HOMEBOX PROTEIN HOX-C5 (HOX-3.4) (HOX-6.2).
					ENSMUSG00000036139	HOMEBOX PROTEIN HOX-C9 (HOX-3.2).
164	15.103949349-103949573	1.7	0.0008	0.0133	ENSMUSG00000001657	HOMEBOX PROTEIN HOX-C8 (HOX-3.1) (M31).
					ENSMUSG00000001661	HOMEBOX PROTEIN HOX-C6 (HOX-3.3) (HOX-6.1).
					ENSMUSG00000022485	HOMEBOX PROTEIN HOX-C5 (HOX-3.4) (HOX-6.2).
					ENSMUSG00000036139	HOMEBOX PROTEIN HOX-C9 (HOX-3.2).
165	15.103953855-103954086	6.7	0.0011	0.0705	ENSMUSG00000001657	HOMEBOX PROTEIN HOX-C8 (HOX-3.1) (M31).
					ENSMUSG00000001661	HOMEBOX PROTEIN HOX-C6 (HOX-3.3) (HOX-6.1).
					ENSMUSG00000022485	HOMEBOX PROTEIN HOX-C5 (HOX-3.4) (HOX-6.2).

					ENSMUSG00000036139	HOMEOBOX PROTEIN HOX-C9 (HOX-3.2).
166	15.103986584-103987987	74.8	0.0214	0.7034	ENSMUSG00000016611	HOMEOBOX PROTEIN HOX-C6 (HOX-3.3) (HOX-6.1).
					ENSMUSG00000022485	HOMEOBOX PROTEIN HOX-C5 (HOX-3.4) (HOX-6.2).
					ENSMUSG00000022486	HOMEOBOX PROTEIN HOX-C4 (HOX-3.5).
167	15.10598728-10600168	83.1	0.0762	0.3001	ENSMUSG00000022246	ANKYCORBIN
					ENSMUSG00000022249	NA
168	15.19053083-19053367	29.6	0.0296	0.0843	ENSMUSG00000022321	CADHERIN-10 (T2-CADHERIN) (FRAGMENT).
169	15.35393215-35397100	127.4	0.0794	0.8032	ENSMUSG00000022330	ODD-SKIPPED-RELATED 2 PROTEIN.
170	15.7632763-7638457	62.8	0.0477	0.3174	ENSMUSG00000022144	GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR PRECURSOR.
171	15.97339477-97343786	98.9	0.1043	0.2318	ENSMUSG00000033228	NA
172	15.98911550-98914110	94.3	0.0755	0.4413	ENSMUSG00000022483	COLLAGEN ALPHA 1(II) CHAIN PRECURSOR
173	16.19037149-19037370	11.1	0.0124	0.0202	ENSMUSG00000022695	IG LAMBDA-2 CHAIN V REGION PRECURSOR.
174	16.23744310-23746176	67.3	0.0691	0.1751	ENSMUSG00000022508	B-CELL LYMPHOMA 6 PROTEIN HOMOLOG.
175	16.58693209-58693471	95.9	0.0548	0.6501	ENSMUSG00000035107	NA
176	16.76309614-76310261	30.1	0.0246	0.1359	ENSMUSG00000032932	NA
177	16.89421934-89422163	16.8	0.0205	0.0140	ENSMUSG00000040970	NA
					ENSMUSG00000040984	KERATIN-ASSOCIATED PROTEIN 13.
178	16.89431426-89431787	29.5	0.0175	0.1945	ENSMUSG00000040970	NA
					ENSMUSG00000040984	KERATIN-ASSOCIATED PROTEIN 13.
179	16.10022477-10025712	130.3	0.1310	0.3646	ENSMUSG00000038055	MYLE PROTEIN (DEXAMETHASONE-INDUCED PROTEIN).
180	17.13516524-13516735	16.3	0.0202	0.0108	ENSMUSG00000023886	SECRETED MODULAR CALCIUM-BINDING PROTEIN 2.
181	17.31065239-31070426	260.3	0.0352	2.8059	ENSMUSG00000024042	PROBABLE SERINE/THREONINE PROTEIN KINASE SNF1LK (EC 2.7.1.-) (HRT-20) (MYOCARDIAL SNF1-LIKE KINASE).
182	17.31249825-31252102	107.2	0.1327	0.0712	ENSMUSG00000002070	NA
					ENSMUSG00000002076	NA
183	17.35193993-35194721	37.6	0.0464	0.0263	ENSMUSG00000024432	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, TLA(B) ALPHA CHAIN PRECURSOR (MHC THYMUS LEUKEMIA ANTIGEN).
					ENSMUSG00000038311	NA
184	17.54741202-54741531	21.3	0.0221	0.0538	ENSMUSG00000024174	NA
185	17.55481990-55485168	52.9	0.0531	0.1487	ENSMUSG00000013236	PROTEIN-TYROSINE PHOSPHATASE, RECEPTOR-TYPE, S PRECURSOR (EC 3.1.3.48) (PROTEIN-TYROSINE PHOSPHATASE SIGMA) (RPTP-SIGMA) (PROTEIN TYROSINE PHOSPHATASE PTP9) (PTPASE NU-3).
					ENSMUSG00000024201	SIMILAR TO KIAA0677 GENE PRODUCT.
					ENSMUSG00000024203	NA
186	18.37117509-37119362	91.7	0.0939	0.2407	ENSMUSG00000007705	PROTOCOLADHERIN ALPHA 4
					ENSMUSG00000007706	CADHERIN-RELATED NEURAL RECEPTOR 6 (FRAGMENT).
					ENSMUSG00000007707	CADHERIN-RELATED NEURAL RECEPTOR 4 (FRAGMENT).

					ENSMUSG00000041677	PROTODADHERIN ALPHA 6
					ENSMUSG00000041804	PROTODADHERIN ALPHA 3.
					ENSMUSG00000041843	PROTODADHERIN ALPHA 2.
					ENSMUSG00000041884	PROTODADHERIN ALPHA 1.
187	18.37126631-37128370	130.7	0.0935	0.7131	ENSMUSG00000007705	PROTODADHERIN ALPHA 4
					ENSMUSG00000007706	CADHERIN-RELATED NEURAL RECEPTER 6 (FRAGMENT).
					ENSMUSG00000007707	CADHERIN-RELATED NEURAL RECEPTER 4 (FRAGMENT).
					ENSMUSG00000041677	PROTODADHERIN ALPHA 6
					ENSMUSG00000041804	PROTODADHERIN ALPHA 3.
					ENSMUSG00000041843	PROTODADHERIN ALPHA 2.
188	18.37139991-37141467	83.8	0.1011	0.0799	ENSMUSG00000007705	PROTODADHERIN ALPHA 4
					ENSMUSG00000007706	CADHERIN-RELATED NEURAL RECEPTER 6 (FRAGMENT).
					ENSMUSG00000007707	CADHERIN-RELATED NEURAL RECEPTER 4 (FRAGMENT).
					ENSMUSG00000041564	CADHERIN-RELATED NEURAL RECEPTER 8 (FRAGMENT).
					ENSMUSG00000041599	PROTODADHERIN ALPHA 8.
					ENSMUSG00000041677	PROTODADHERIN ALPHA 6
189	18.37161117-37163029	95.5	0.0948	0.2790	ENSMUSG00000007440	PROTODADHERIN ALPHA C2.
					ENSMUSG00000007707	CADHERIN-RELATED NEURAL RECEPTER 4 (FRAGMENT).
					ENSMUSG00000041467	CADHERIN-RELATED NEURAL RECEPTER 7 (FRAGMENT).
					ENSMUSG00000041508	CADHERIN-RELATED NEURAL RECEPTER 3 (FRAGMENT).
					ENSMUSG00000041564	CADHERIN-RELATED NEURAL RECEPTER 8 (FRAGMENT).
					ENSMUSG00000041599	PROTODADHERIN ALPHA 8.
190	18.37192627-37194006	70.0	0.0644	0.2501	ENSMUSG00000007440	PROTODADHERIN ALPHA C2.
					ENSMUSG00000041467	CADHERIN-RELATED NEURAL RECEPTER 7 (FRAGMENT).
					ENSMUSG00000041508	CADHERIN-RELATED NEURAL RECEPTER 3 (FRAGMENT).
191	18.37207450-37209321	88.5	0.0418	0.6805	ENSMUSG00000007440	PROTODADHERIN ALPHA C2.
192	18.37917848-37920059	129.7	0.1062	0.5846	ENSMUSG00000024463	PROTODADHERIN 13.
					ENSMUSG00000039718	PROTODADHERIN GAMMA A11.
					ENSMUSG00000039802	PROTODADHERIN GAMMA B7.
					ENSMUSG00000039839	PROTODADHERIN GAMMA A10.
					ENSMUSG00000039882	PROTODADHERIN GAMMA A9.
					ENSMUSG00000039933	PROTODADHERIN GAMMA B5.
193	18.37929138-37930971	126.2	0.1279	0.3433	ENSMUSG00000024463	PROTODADHERIN 13.
					ENSMUSG00000039718	PROTODADHERIN GAMMA A11.
					ENSMUSG00000039802	PROTODADHERIN GAMMA B7.
					ENSMUSG00000039839	PROTODADHERIN GAMMA A10.
194	18.63501432-63502121	40.0	0.0378	0.1345	ENSMUSG00000040908	NA

195	18.7178424-7179004	41.2	0.0334	0.1889	ENSMUSG00000024280	NA
196	19.12427634-12428001	26.9	0.0340	0.0112	ENSMUSG00000038666	NA
197	19.39769328-39769573	18.2	0.0081	0.1450	ENSMUSG00000042248	SIMILAR TO CYTOCHROME P450, 2C37.
198	19.43499593-43504124	126.9	0.1334	0.3019	ENSMUSG00000025191	HOMEBOX PROTEIN NKX-2.3.
199	19.56855416-56860208	299.2	0.0691	2.9629	ENSMUSG00000025081	TUDOR DOMAIN CONTAINING PROTEIN 1.
200	19.61327560-61328116	22.4	0.0279	0.0133	ENSMUSG00000041980	GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR RECEPTOR ALPHA CHAIN PRECURSOR (GM-CSF-R-ALPHA) (GMR).
201	Un.479515-479818	24.0	0.0091	0.2055	ENSMUSG00000004024	EUKARYOTIC TRANSLATION INITIATION FACTOR 1A (EIF-1A) (EIF-4C) (FRAGMENT).
202	Un.87409427-87409678	17.2	0.0177	0.0444	ENSMUSG00000021888	VOMERONASAL 2, RECEPTOR, 11
203	Un.48665809-48666040	16.4	0.0209	0.0054	ENSMUSG00000024674	NA
204	Un.39514237-39514762	30.1	0.0227	0.1535	ENSMUSG00000033412	T-CELL RECEPTOR ALPHA CHAIN V REGION PHDS58 PRECURSOR.
205	Un.35079087-35079499	28.9	0.0199	0.1641	ENSMUSG00000033431	NA
206	Un.35112573-35112843	20.4	0.0203	0.0591	ENSMUSG00000033431	NA
207	Un.35939364-35939637	33.2	0.0337	0.0900	ENSMUSG00000033431	NA
208	Un.36106885-36107112	21.6	0.0208	0.0693	ENSMUSG00000033431	NA
209	Un.36107737-36108176	19.3	0.0207	0.0415	ENSMUSG00000033431	NA
210	Un.31903807-31904298	25.7	0.0240	0.0892	ENSMUSG00000033563	FERRITIN LIGHT CHAIN 2 (FERRITIN L SUBUNIT 2) (FERRITIN SUBUNIT LG).
211	Un.29259500-29259785	11.4	0.0106	0.0399	ENSMUSG00000033647	60S RIBOSOMAL PROTEIN L30.
212	Un.21587787-21588546	18.8	0.0209	0.0342	ENSMUSG00000033844	UNKNOWN (PROTEIN FOR MGC=6827).
213	Un.107047921-107048175	20.3	0.0237	0.0261	ENSMUSG00000035261	NA
214	Un.106292066-106297686	230.9	0.0356	2.4487	ENSMUSG00000035312	ADULT MALE STOMACH CDNA, RIKEN FULL-LENGTH ENRICHED LIBRARY, CLONE=2210018M05, FULL INSERT SEQUENCE (FRAGMENT).
215	Un.101510780-101511277	28.7	0.0345	0.0290	ENSMUSG00000035482	RING1 AND YY1 BINDING PROTEIN
216	Un.19820425-19821185	18.8	0.0177	0.0636	ENSMUSG00000035684	UNKNOWN (PROTEIN FOR MGC=6827).
217	Un.14128600-14128805	21.5	0.0184	0.0897	ENSMUSG00000035746	NA
218	Un.45133993-45134246	15.1	0.0135	0.0578	ENSMUSG00000042132	HISTONE H2B F (H2B 291A).