

ANEXO 10 - Transcription factors identified from differentially expressed protein genes for litter size (group 11), through an input file in Fasta format

;TFM Explorer

;Date : Mon Nov 8 18:11:36 2021

;Scanned location : -3000:300

;Scanned sequences : None (25 sequences)

;Scanned matrices : (130 matrices)

;Parameters : minsize= 30, maxsize= 1500, ratio=3.0, top=25

;

; headers

; 1 rank window rank

; 2 matrix matrix name

; 3 tf transcription factor name

; 4 info information of content of the matrix

; 5 gc gc content of the matrix (G+C)%

; 6 location location of the window (relatively to TSS)

; 7 pvalue pvalue of the window

1 MA0070.1 PBX1 14.6408950838 0.310185187496 -2124:-1390 3.35177567247e-12

list of hits

DDX17	-1987	-1975	+	5.39	GAAACAATCCAA
DDX17	-1901	-1889	-	6.17	AAAGAATGATGA
DDX17	-1425	-1413	-	5.95	ATTGCTTGTTC
DMC1	-1630	-1618	-	4.39	CTTCATTGATTT
DMC1	-1390	-1378	+	4.53	ACAACCTTCAAA
EYA41	-2077	-2065	+	5.39	GGCTCAATCTAA
GTPBP2		-2118	-2106	-	5.08 AATGAATGACTA
LOC100512154	-1567	-1555	-	7.38	TTTGATTGGGGA
LOC100518109	-1728	-1716	-	6.41	TTTGATGGACTG
LOC100518644	-2124	-2112	+	6.47	CACCCAATCAAA
LOC100518644	-1573	-1561	+	5.95	AGCTCCATCAAT
LOC100519351	-2078	-2066	-	4.31	ATGGCTTGAGGT
LOC100519351	-1405	-1393	+	10.01	CCAACAATCAAT
LOC106509346	-1741	-1729	-	5.42	TATGATTGTCAA
LOC106509346	-1591	-1579	-	8.90	AATGATGGATGT
LOC106509346	-1461	-1449	+	4.31	TCCTCATTCAT
LOC110259262	-2044	-2032	-	4.86	GTGGATGGATAA

STX18	-1987	-1975	-	6.13	CTGGATGGATGG
STX18	-1975	-1963	-	4.43	ATGGAAGGATGG
STX18	-1955	-1943	-	7.22	ATAGATGGATGG
STX18	-1931	-1919	-	7.22	ATGGATGGATGG
STX18	-1915	-1903	-	6.13	GTGGATGGATGG
STX18	-1899	-1887	-	7.22	ATGGATGGATGG
STX18	-1883	-1871	-	6.13	GTGGATGGATGG
STX18	-1867	-1855	-	7.22	ATGGATGGATGG
STX18	-1851	-1839	-	4.43	ATGGAAGGATGG
STX18	-1835	-1823	-	7.22	ATGGATGGATGG
STX18	-1819	-1807	-	4.43	ATGGAAGGATGG
STX18	-1795	-1783	-	7.22	ATGGATGGATGG
STX18	-1779	-1767	-	6.13	GTGGATGGATGG
STX18	-1767	-1755	-	7.22	ATGGATGGATGG
STX18	-1751	-1739	-	6.35	AAAGATGGATGG
STX18	-1739	-1727	-	7.22	ATGGATGGATGG
STX18	-1719	-1707	-	6.35	AAAGATGGATGG
STX18	-1703	-1691	-	4.43	ATGGAAGGATGG
STX18	-1687	-1675	-	7.22	ATGGATGGATGG
STX18	-1671	-1659	-	6.13	GTGGATGGATGG
STX18	-1659	-1647	-	7.22	ATGGATGGATGG
STX18	-1643	-1631	-	6.35	AAAGATGGATGG
STX18	-1619	-1607	-	6.35	AAAGATGGATGG
STX18	-1603	-1591	-	4.43	ATGGAAGGATGG
STX18	-1587	-1575	-	7.22	ATGGATGGATGG
STX18	-1567	-1555	-	4.43	ATGGAAGGATGG
STX18	-1547	-1535	-	4.43	ATGGAAGGATGG
STX18	-1531	-1519	-	7.22	ATGGATGGATGG
STX18	-1519	-1507	-	4.43	ATGGAAGGATGG
STX18	-1499	-1487	-	7.22	ATGGATGGATGG
STX18	-1487	-1475	-	6.13	GTGGATGGATGG
STX18	-1475	-1463	-	7.22	ATGGATGGATGG
STX18	-1451	-1439	-	4.49	ATGGATGGAGGG
STX18	-1436	-1424	-	7.22	ATGGATGGATGG
TMEM181	-2064	-2052	-	7.15	TTTGATTGAAGG
TMEM181	-2003	-1991	+	5.26	CAACCAAGCATT

2 MA0002.2 RUNX1 10.4014248352 0.501590918453 -2581:-2217 1.57650226252e-10

list of hits

AARS2	-2571	-2560	-	6.91	GAGCCACAGCA
AARS2	-2531	-2520	-	6.65	ACACCACAGCT
AARS2	-2474	-2463	-	8.12	AACCCACAACC
AARS2	-2440	-2429	-	6.29	TAACCACTGAG
AARS2	-2240	-2229	-	7.98	ATACCACAGCC
CFAP61	-2541	-2530	+	6.43	AACTGTGGTAT
CFAP61	-2501	-2490	+	7.49	TGCTGTGGCTG
CFAP61	-2470	-2459	+	6.08	AGCTGCGGTTA
CFAP61	-2387	-2376	-	7.45	AAACCACATTC
DDX17	-2464	-2453	+	6.37	CGTTGTGGCTC
DDX17	-2395	-2384	+	8.82	CTCTGTGGGTT
DDX17	-2324	-2313	+	6.91	TGCTGTGGCTC
DDX17	-2258	-2247	-	6.53	ATGCCACAGGA
DMC1	-2409	-2398	-	6.65	ACACCACAGCT
DMC1	-2310	-2299	-	6.42	GAGCCACAACA
DYNLT1		-2313	-2302	-	6.64 AGACCCCAGAC
GRIK3	-2555	-2544	+	7.33	CTGTGTGGCTT
GTPBP2		-2327	-2316	+	5.74 TATTGTGGCTC
GTPBP2		-2275	-2264	-	8.67 AACCCACAAAC
KCNJ4	-2522	-2511	-	7.41	GAGCCACAGAG
KCNJ4	-2456	-2445	+	7.23	CCCTGTGGTGT
KCNJ4	-2352	-2341	-	6.59	ATCCCACAGAA
KCNJ4	-2217	-2206	-	8.97	AGACCACAGGA
LACTBL1		-2486	-2475	-	6.07 CAACCACACTA
LACTBL1		-2227	-2216	-	7.31 TAGCCACAGTG
LOC100511243	-2477	-2466	-	7.34	AAACCCCAGAG
LOC100511243	-2238	-2227	-	8.28	AAGCCACAAGG
LOC100512154	-2481	-2470	+	7.44	GATTGTGGGTT
LOC100512154	-2424	-2413	+	6.65	AGCTGTGGTGT
LOC100512154	-2384	-2373	+	7.49	TGCTGTGGCTG
LOC100518109	-2300	-2289	+	7.39	GTTTGTGTTTT
LOC100518644	-2475	-2464	+	6.46	ACTTGTGGCTG
LOC100518644	-2428	-2417	+	5.94	GCTTGGGGTTA

LOC110259262	-2581	-2570	+	6.39	GTTTGTGGGAT
LOC110259262	-2329	-2318	+	6.78	GGCTGTGGCAT
ORC5	-2308	-2297	-	6.01	CAACCACATGT
RIN2	-2503	-2492	+	7.12	GGGTGTGGCTT
SLC16A8	-2399	-2388	+	6.29	CTCAGTGGTTA
SLC16A8	-2369	-2358	+	6.65	AGCTGTGGTGT
STX18	-2570	-2559	-	9.28	AGACCACAAAC
STX18	-2444	-2433	-	7.04	CACCCACAGCA
STX18	-2377	-2366	-	9.24	TAACCACAGCA
ZDHHC14	-2465	-2454	-	8.00	CAGCCACAGAG
ZFP91	-2573	-2562	-	7.07	GGACCACAAAG
ZFP91	-2289	-2278	+	6.00	ACTTGTGTTTT

3 MA0061.1 NF-kappaB 13.3447617922 0.621052631736 -2532:-2129 1.72419563744e-06

list of hits

AARS2	-2286	-2276	-	5.38	GGAGGTTCCC
AARS2	-2145	-2135	+	6.60	GGGGAACCTCC
CFAP61	-2447	-2437	+	5.38	GGGAACCTCC
DDX17	-2270	-2260	+	5.38	GGGAACCTCC
DMC1	-2517	-2507	+	4.85	GGAAGTTCCC
DMC1	-2300	-2290	+	5.24	AGGAATTCCC
EYA41	-2172	-2162	+	8.48	GGGAATCCCC
EYA41	-2143	-2133	-	4.63	GTGCAGCCCC
GRIK3	-2220	-2210	-	6.48	GGGCTTCCCC
GTPBP2	-2298	-2288	+	5.38	GGGAACCTCC
LACTBL1	-2385	-2375	-	6.38	GGTCATTCCC
LACTBL1	-2149	-2139	-	6.76	GGGCTGTCCC
LOC100511243	-2178	-2168	-	7.00	GGGAGGCCCC
LOC100512154	-2330	-2320	+	5.38	GGGAACCTCC
LOC106509346	-2497	-2487	+	9.90	GGGAAATCCC
LOC110259262	-2480	-2470	-	5.18	AGGAGTTCCC
LOC110259262	-2281	-2271	+	8.14	GGGAACCTCC
LOC110259262	-2149	-2139	-	6.67	AGGATGTCCC
LOC110259262	-2129	-2119	+	4.92	GGGAATTCTT
MAP7D1	-2527	-2517	-	4.98	AGGCATCCCC
MAP7D1	-2481	-2471	-	6.36	GTAACCTCCC

MAP7D1	-2446	-2436	-	5.08	GGACACCCCC
MAP7D1	-2293	-2283	+	5.66	GGGCATTCCC
RIN2	-2449	-2439	+	4.54	GGGACTTCTT
SLC16A8	-2321	-2311	+	8.14	GGGAACTTCC
STX18	-2430	-2420	-	5.32	GTAAGTTCCC
STX18	-2228	-2218	+	4.52	GGAAC TTCAC
TMEM181	-2532	-2522	+	5.40	GGGGCATCTC

4 MA0105.1 NFKB1 15.6269628514 0.757575756447 -2299:-2145 6.3927868072e-06

list of hits

AARS2	-2286	-2275	+	3.75	GGAGGTTCCCA
AARS2	-2145	-2134	+	10.50	GGGGAAC TCCC
DDX17	-2271	-2260	-	3.75	TGGGAACCTCC
DDX17	-2195	-2184	-	3.75	AGGGAAC CCTC
DYNLT1	-2244	-2233	-	3.40	GGAAAATGCCC
DYNLT1	-2145	-2134	-	2.79	CTGGGTTCCCC
EYA41	-2173	-2162	+	6.24	TGGGAATCCCC
GRIK3	-2221	-2210	+	4.66	TGGGCTTCCCC
GTPBP2	-2299	-2288	-	3.75	TGGGAACCTCC
LACTBL1	-2150	-2139	-	3.46	AGGGCTGTCCC
LOC100511243	-2179	-2168	+	3.65	TGGGAGGCCCC
LOC110259262	-2281	-2270	+	4.50	GGGAACTTCCC
MAP7D1	-2294	-2283	+	2.93	AGGGCATTCCC
RIN2	-2243	-2232	-	3.33	GGAGCTGTCCC

5 MA0088.1 znf143 17.5411728469 0.530000010505 -1158:-1104 2.5323839131e-05

list of hits

DDX17	-1153	-1133	+	6.11	TGCTCACCAGGGGTCCTAGC
DMC1	-1119	-1099	-	4.46	TTGAAGA ACTATGGCAGTTA
DYNLT1	-1126	-1106	+	6.17	CCAGATCCCTAATCCACTGA
KCNJ4	-1111	-1091	-	2.83	TGTAGGCATCGTGGTGTATG
LOC100518109	-1133	-1113	+	3.87	TAGCCACCCCATCCATCCC
LOC106509346	-1136	-1116	-	5.24	GCTGAGAAACATGGGAGGGC
RIN2	-1111	-1091	-	3.10	TCAGGGAACCAGGAGAAAAG
SLC16A8	-1158	-1138	-	5.46	GGGGTGGAGGATGGAGAGAA
SLC16A8	-1129	-1109	-	4.86	CTGGGGGAGCCTGGGAGCCC

SLC16A8	-1108	-1088	-	7.12	GCTGGGAACACTGGGAAAGG
STX18 -1123	-1103	+	6.50	AAATTTCCATAATTCTATGG	
ZDHHC14	-1104	-1084	-	3.10	GAGGAGAAGCCGGAAGCGA

6 MA0136.1 ELF5 8.69309550562 0.429292928841 152:193 3.13179596975e-05

list of hits

LOC100512154	+0192	201	+	6.34	TTCTTCCTG
LOC100518109	+0152	161	-	5.93	AGGGAAATT
LOC100519351	+0186	195	+	6.34	TTCTTCCTG
LOC106509346	+0174	183	+	6.82	TTTTTCCTT
RIN2 +0193	202	-	6.64	AAGGAAACT	
ZDHHC14 +0190	199	-	6.81	GAGGAAATG	
ZFP91 +0158	167	-	6.03	GAGGAAGAA	
ZFP91 +0179	188	+	6.91	TACTTCCGC	
ZFP91 +0193	202	-	6.98	AAGGAAGAA	

7 MA0057.1 MZF1_5-13 9.40029161122 0.5875 -2447:-2262 3.35200793893e-05

list of hits

AARS2 -2273	-2263	+	6.00	CTAGGGGTTG	
CFAP61-2377	-2367	+	7.04	CTAGGGTGAA	
CFAP61-2262	-2252	-	7.92	TCACCCCTCC	
GRIK3 -2389	-2379	-	7.37	GTCCCCATCC	
GRIK3 -2299	-2289	-	6.01	TCACCCCTCT	
GRIK3 -2277	-2267	-	5.95	CTTCCCCTCT	
LACTBL1 -2405	-2395	+	5.90	CTATGGGGTG	
LACTBL1 -2262	-2252	-	5.90	TCCACCATCC	
LOC100511243	-2426	-2416	+	6.69	CTAGGGGGTG
LOC100518644	-2447	-2437	+	6.16	GGAGTGGGAG
LOC100518644	-2305	-2295	+	9.52	GTAGGGGGAA
LOC110259262	-2294	-2284	-	6.68	CCACCCCTAG
MAP7D1 -2441	-2431	-	7.92	CCCCCCTCC	
MAP7D1 -2384	-2374	-	8.83	CTCCCCCTCC	
MAP7D1 -2359	-2349	-	5.95	CTTCCCCTCT	
ORC5 -2329	-2319	-	8.15	ATCCCCCTCC	
ORC5 -2319	-2309	-	7.04	CTCCCCCTTG	
STX18 -2417	-2407	+	6.00	CTAGGGGTTG	

ZDHHC14	-2392	-2382	-	7.36	CTACCCATAC
ZDHHC14	-2306	-2296	-	6.27	CATCCCCTCC

8 MA0105.1 NFKB1 15.6269628514 0.757575756447 -1843:-1335 3.45311363362e-05

list of hits

AARS2	-1841	-1830	-	3.40	CAGAAATCCCC
DDX17	-1347	-1336	+	4.55	GGGGATTGTCC
DYNLT1		-1843	-1832	+	3.78 GAGGGGTTCCTCC
DYNLT1		-1653	-1642	-	3.75 TGGGAACCTCC
DYNLT1		-1632	-1621	-	2.98 GAGGCAGCCCC
EYA41	-1816	-1805	+	5.22	GGGGGATTTCT
EYA41	-1542	-1531	+	4.18	TGGAAATCCCC
GRIK3	-1681	-1670	+	3.11	GGGAGCCTCCC
GRIK3	-1522	-1511	+	3.44	GGGGAATCTAC
KCNJ4	-1609	-1598	+	4.38	GTGGAGTTCCC
KCNJ4	-1408	-1397	+	5.45	TGGGAACCCCC
LACTBL1		-1619	-1608	-	3.76 GGGGCCTGCCC
LOC100511243		-1596	-1585	+	4.68 GTGGGTCTCCC
LOC100518109		-1601	-1590	-	3.57 AGGGGATCCAC
LOC100518644		-1419	-1408	-	4.57 AGGACTGCCCC
LOC110259262		-1728	-1717	+	5.02 GGGACATCTCC
MAP7D1		-1335	-1324	+	3.19 GGGGTGGTCCC
RIN2	-1690	-1679	+	4.38	TGGGAGTTCCC
RIN2	-1488	-1477	-	3.75	TGGGAACCTCC
SLC16A8		-1759	-1748	+	3.19 GGGGTGGTCCC
SLC16A8		-1526	-1515	-	3.76 GGGGCCTGCCC
TMEM181		-1772	-1761	-	3.75 TGGGAACCTCC
TMEM181		-1531	-1520	+	3.90 TGGGGACTCCC
TMEM181		-1440	-1429	+	6.93 GGGAGGCTCCC
TMEM181		-1418	-1407	-	6.02 AGGACCTCCCC
ZDHHC14		-1394	-1383	-	5.22 TGAAGACCCCC
ZFP91	-1351	-1340	-	2.84	GGAGATCCAC

9 MA0124.1 NKX3-111.1268615571 0.178571427507 -2412:-2252 4.03856866593e-05

list of hits

AARS2	-2403	-2396	-	6.07	TAAATAT
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EYA41	-2408	-2401	+	7.51	TTACTTA
EYA41	-2252	-2245	-	6.07	TATGTAT
LOC100518644	-2311	-2304	+	6.07	ATACTTG
LOC106509346	-2403	-2396	-	6.07	TATGTAT
LOC106509346	-2392	-2385	-	6.07	TATGTAT
LOC106509346	-2382	-2375	-	6.07	TAAATAT
LOC106509346	-2372	-2365	-	6.07	TAAATAT
LOC106509346	-2356	-2349	-	6.07	TAAATAT
LOC106509346	-2343	-2336	+	6.07	ATACATA
LOC106509346	-2330	-2323	-	6.07	TATGTAT
LOC106509346	-2320	-2313	-	6.07	TATGTAT
LOC106509346	-2295	-2288	-	6.07	TAAATAT
LOC106509346	-2285	-2278	-	6.07	TATGTAT
LOC106509346	-2268	-2261	+	6.07	ATACATA
ORC5	-2412	-2405	-	6.07	TAAATAT
RIN2	-2358	-2351	+	6.07	ATACATA

10 MA0155.1 INSM1 14.8617070481 0.666666670392 -2313:-2187 4.33129368098e-05

list of hits

AARS2	-2275	-2263	+	7.35	GGCTAGGGGTTG
AARS2	-2205	-2193	+	3.93	GGCCAGGGATCA
DDX17	-2283	-2271	-	8.51	CGACCCCTAGCC
DYNLT1		-2313	-2301	-	9.67 AGACCCCAGACA
DYNLT1		-2256	-2244	-	4.29 CACCCCAATCA
DYNLT1		-2187	-2175	-	4.56 TACCCCTTGGA
EYA41	-2276	-2264	-	5.37	AGCCCGCTGACT
GRIK3	-2210	-2198	-	6.16	CTCCCCAGCAC
KCNJ4	-2229	-2217	+	3.83	GGCCAGGGGAAG
KCNJ4	-2187	-2175	-	4.79	CGCCCACTTCCA
LOC100518644	-2307	-2295	+	6.62	TTGTAGGGGGAA
LOC100519351	-2218	-2206	+	4.06	TGCAAAGGGGAG
MAP7D1		-2283	-2271	-	8.26 CACCCCAGCCC
MAP7D1		-2269	-2257	+	7.14 GGGAAGGGCCG
SLC16A8		-2209	-2197	-	5.05 CACCTCCTTACA
STX18	-2292	-2280	+	4.11	GGCCAGGGATCG

11	MA0144.1	Stat3	13.6006727062	0.505057099889	181:216	4.52969279286e-05
		list of hits				
		CFAP61+0196	206	-	5.78	TTGCCAGGCA
		DYNLT1	+0216	226	-	6.65 CTTCCCGGCG
		EYA41 +0185	195	+	5.58	TGCCAGCAAG
		LOC100512154	+0194	204	-	5.03 CTTCTGTCC
		LOC100512154	+0212	222	-	11.25 TTTCTGGAA
		LOC100519351	+0188	198	-	7.13 CTTCTGACA
		LOC100519351	+0206	216	-	4.44 CTGCCTTGAA
		LOC110259262	+0181	191	+	6.18 TCCTAGGAAG
		ZDHHC14	+0205	215	-	6.79 TTTCCCGGA
12	MA0077.1	SOX9	9.07881468797	0.358187139655	-2106:-1953	4.88991566638e-05
		list of hits				
		AARS2 -2050	-2041	+	5.86	GATCTATGG
		AARS2 -2028	-2019	+	5.93	CCACAATGG
		DDX17 -2006	-1997	+	6.15	TCACAATAG
		DDX17 -1986	-1977	+	5.70	AAACAATCC
		GRIK3 -2092	-2083	-	6.61	CCATTGTGA
		GTPBP2	-2070	-2061	-	5.81 CCATTATTT
		LOC100511243	-2092	-2083	+	6.23 GAACAATTA
		LOC100511243	-1987	-1978	+	6.07 GAAGAATGG
		LOC100518109	-1971	-1962	-	5.85 TTATTGTTG
		LOC106509346	-2063	-2054	+	7.06 AAACAATAA
		LOC106509346	-2032	-2023	+	7.06 AAACAATAA
		LOC106509346	-1953	-1944	-	6.73 CCTTTGTTC
		MAP7D1	-2095	-2086	-	5.74 CAATTGATA
		ORC5 -2106	-2097	-	7.14	CCATTGTGT
		ORC5 -2031	-2022	-	6.15	CTATTGTGA
13	MA0063.1	Nkx2-5	8.26972553332	0.218487398433	-2164:-2081	5.95669098481e-05
		list of hits				
		AARS2 -2119	-2112	+	7.00	TTAAGTG
		CFAP61-2164	-2157	-	7.00	CACTTAA
		DMC1 -2081	-2074	-	7.35	CAATTAA
		DYNLT1	-2123	-2116	-	7.35 CAATTAA

LOC100511243	-2089	-2082	-	7.35	CAATTAA
LOC100519351	-2136	-2129	-	7.10	CAATTAT
LOC106509346	-2086	-2079	-	7.10	CAATTAT
STX18	-2137	-2130	+	7.10	ATAATTG

14 MA0122.1 Nkx3-2 8.54224970754 0.462962961859 -1194:-1097 6.17570723965e-05

list of hits

CFAP61	-1126	-1117	+	6.30	TTTAGTGGG
EYA41	-1097	-1088	-	6.31	GACACTTAA
GRIK3	-1188	-1179	-	6.84	GCCACTTGA
GTPBP2		-1194	-1185	+	6.51 GGAAGTGGA
LACTBL1		-1122	-1113	-	7.24 TTCACTTAA
LOC100511243	-1148	-1139	-	6.06	GACACTTAG
LOC106509346	-1164	-1155	-	6.66	GCCACTCAT
LOC106509346	-1098	-1089	+	6.11	TGGAGTGGG
ORC5	-1117	-1108	-	6.40	TGCACTTGA
RIN2	-1149	-1140	-	7.25	ACCACTTAA
RIN2	-1116	-1107	-	7.22	GCCACTCAG
ZFP91	-1167	-1158	+	6.22	TGAAGTGGT

15 MA0038.1 Gfi 9.47016685671 0.390566043556 -882:-813 7.07976235664e-05

list of hits

AARS2	-0836	-826	+	7.00	CGAATCAGAG
DYNLT1		-0813	-803	-	7.82 CTGGGATTTG
KCNJ4	-0870	-860	+	6.57	CCAATCTCCC
LOC100511243	-0837	-827	-	6.68	TTTTGATTTG
LOC100512154	-0864	-854	-	6.92	GACTGATTTT
LOC100518644	-0845	-835	+	7.19	ACAATCACAC
LOC100518644	-0828	-818	-	8.08	CTCTGATTTA
LOC100519351	-0840	-830	+	7.98	CCAATCACAC
LOC106509346	-0839	-829	+	6.21	AAAATCAGAA
STX18	-0882	-872	-	9.30	CTGTGATTTG

16 MA0025.1 NFIL3 14.13850704 0.264822136611 -200:-887.2009213971e-05

list of hits

DDX17	-0200	-189	-	3.50	AACTGACGTAA
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DDX17	-0130	-119	+	5.10	TTACGTATCGT
LOC100511243	-0131	-120	-	3.99	GTCTGACATAA
LOC100511243	-0116	-105	-	4.15	TTATTAAGTAA
LOC100512154	-0114	-103	-	3.59	TAATTAGGTAA
LOC100512154	-0088	-77	-	4.81	AAATTTTCATAA
LOC100518644	-0117	-106	-	5.13	AGATTAGATAA
LOC106509346	-0134	-123	-	4.22	TAATTAAATAA
STX18	-0183	-172	+	5.13	TTATGTTACTT

17 MA0117.1 Mafb 6.76893922026 0.608333337431 -1364:-721 7.82758904796e-05

list of hits

AARS2	-1251	-1243	-	6.10	ACTTCAGC
DDX17	-1323	-1315	+	6.73	GCTGACAG
DDX17	-0984	-976	+	5.80	GCTTACGC
DDX17	-0873	-865	-	6.60	GCTTCAGC
GTPBP2		-1159	-1151	-	6.51 AAGTCAGC
GTPBP2		-1033	-1025	+	7.02 GCTGACTG
GTPBP2		-0979	-971	-	6.51 AAGTCAGC
KCNJ4	-0936	-928	-	5.66	GGGTCAGC
LOC100512154	-1032	-1024	-	5.76	GTATCAGC
LOC100518109	-0721	-713	-	6.51	AAGTCAGC
LOC100518644	-1364	-1356	-	6.05	GATTCAGC
LOC100518644	-1290	-1282	-	7.07	ACGTCAGC
LOC100518644	-1245	-1237	+	7.02	GCTGACTG
LOC100518644	-0871	-863	+	5.76	GCTGATAC
LOC100518644	-0793	-785	-	5.76	GTTTCAGC
LOC100518644	-0725	-717	-	6.05	CATTCAGC
LOC100519351	-1343	-1335	-	6.73	GTGTCAGC
LOC100519351	-1317	-1309	+	6.60	GCTGAAGG
LOC100519351	-1191	-1183	+	6.05	GCTGATTG
LOC106509346	-1155	-1147	+	5.76	GCTGAAAG
LOC106509346	-1078	-1070	+	5.70	GCTGAAGA
LOC110259262	-1282	-1274	+	5.76	GCTGAAAC
MAP7D1		-1071	-1063	-	6.60 CCTTCAGC
RIN2	-0896	-888	+	5.78	GCCGACGT
RIN2	-0739	-731	+	7.02	GCTGACTC

STX18	-0847	-839	-	6.05	GATTCAGC
ZDHHC14		-1300	-1292	-	5.80 GCGGCAGC
ZDHHC14		-1132	-1124	-	5.80 GCGGCAGC
ZDHHC14		-0821	-813	-	6.60 GCTTCAGC

18 MA0442.1 SOX10 7.96992529398 0.386363640428 -585:-548 9.93038285084e-05

list of hits

DYNLT1	-0585	-579	-	6.89	ACAAAG
LOC100511243	-0548	-542	+	6.67	CATTGT
LOC100519351	-0562	-556	-	6.67	ACAATG
ORC5	-0585	-579	+	6.67	CATTGT
ORC5	-0551	-545	-	6.89	ACAAAG
STX18	-0573	-567	+	6.67	CATTGT
STX18	-0561	-555	+	6.67	CATTGT