

```
;TFM Explorer
;Date : Wed May 13 06:35:24 2020
;Scanned location : -3000:300
;Scanned sequences : None (12 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 MA0052.1 MEF2A 15.709056118 0.179310347063 -1947:-1831
1.94083402159e-07
```

## list of hits

OPCML	-1900	-1890	+	6.18	ATATTTTAA
IGSF9B	-1894	-1884	+	4.70	TTGTTTATAG
JAM3	-1935	-1925	+	4.89	CTCTTTTAAAG
JAM3	-1895	-1885	-	5.13	CTAGAAATAA
NTM	-1859	-1849	-	4.68	CTATAAATCA
CCDC90B	-1940	-1930	-	3.99	TTAAAAAAG
CCDC90B	-1833	-1823	+	6.44	TTATTAATAA
ANKRD42	-1834	-1824	+	8.02	TTATTTTAA
PCF11	-1873	-1863	+	6.33	TTATATTTAA
RAB30	-1946	-1936	+	5.73	TTATATAAAG
RAB30	-1862	-1852	-	10.11	CTAAAAATAA
RAB30	-1831	-1821	-	4.56	CTAAATGTAA
PRCP	-1848	-1838	+	5.58	CTATATATGA
DDIAS	-1947	-1937	+	3.92	CTACATATAT
DDIAS	-1905	-1895	+	4.48	CTCTTAATAA

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2 MA0060.1 NFYA 12.9251246242 0.522629311625 -70:18 1.19747437135e-06
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## list of hits

IGSF9B	-0070	-54	+	9.19	CAGAGCCAATCGGCCC
IGSF9B	-0040	-24	+	7.71	AGTGCCCAATGGGCGG
NTM	-0065	-49	-	5.40	AGCCTGATTTGCCAG
NTM	+0018	34	+	6.56	TAGAACCAATGATTGC
PCF11	-0062	-46	+	8.09	GCGAGCCAATCACGCC
PRCP	-0055	-39	+	5.68	GCCCTCCAATCGAATC
PRCP	+0007	23	+	10.72	CAGAGCCAATCAGAAG
DDIAS	-0048	-32	-	10.72	CTTCTGATTGGCTCTG
DDIAS	+0014	30	-	5.68	GATTCGATTGGAGGGC

```
3 MA0025.1 NFIL3 14.13850704 0.264822136611 -2024:-1926
2.47494841433e-06
```

## list of hits

OPCML	-2004	-1993	-	4.68	ACCTTGCATAA
OPCML	-1992	-1981	+	4.82	TTACCTAACCT
OPCML	-1945	-1934	-	7.08	TAATTACATAT
NCAPD3	-1926	-1915	-	4.54	CTGGTACATAA
CCDC90B	-2024	-2013	+	4.81	TTTTATAATAG
RAB30	-1949	-1938	-	7.33	TGCTTATATAA
PRCP	-2003	-1992	-	4.20	CGGTTACAGAA
PRCP	-1937	-1926	+	5.07	ATATATAACTA
DDIAS	-1950	-1939	-	4.58	TGGCTACATAT

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4 MA0148.1 FOXA1 12.5328023695 0.332119902252 -2657:-2417
8.08292959748e-06
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## list of hits

OPCML	-2420	-2409	-	5.97	CACAGCACACA
SPATA9	-2547	-2536	-	5.61	TAAAATAAATA
IGSF9B	-2630	-2619	+	6.40	TGTTTTTTCAG
IGSF9B	-2551	-2540	-	5.25	CGATGTAAATA
JAM3	-2522	-2511	+	5.26	TGATTGCTCAG

NCAPD3	-2626	-2615	-	5.73	CTCAGCACACA
CCDC90B	-2657	-2646	-	6.28	CTGAGCTAACA
CCDC90B	-2605	-2594	-	6.28	CTGAGCTAACA
CCDC90B	-2430	-2419	+	5.23	TCTTTACATTC
ANKRD42	-2621	-2610	+	5.98	TGTTGACCCAC
PCF11	-2645	-2634	-	5.50	TAGAATAAATA
PCF11	-2611	-2600	-	9.55	ATGTGCAAACA
PCF11	-2535	-2524	-	7.86	ATGTGTAAATA
PCF11	-2500	-2489	-	7.27	TAGTGTAAATA
PCF11	-2477	-2466	+	7.86	TATTTACACAT
PCF11	-2456	-2445	+	9.41	TGTTTACATAC
RAB30	-2595	-2584	-	5.67	AAATACAAATA
RAB30	-2417	-2406	-	6.78	TAATACAAACA
PRCP	-2580	-2569	+	6.95	TGTTTGTTCAA
PRCP	-2554	-2543	+	7.97	TATTTGCATTT

5 MA0063.1 Nkx2-5 8.26972553332 0.218487398433 -1503:-942  
1.45146299507e-05

## list of hits

OPCML	-1270	-1263	+	6.06	TTAATTT
OPCML	-1230	-1223	+	5.99	TTAAGAG
OPCML	-1078	-1071	+	7.10	ATAATTG
OPCML	-1045	-1038	+	6.06	TTAATTT
SPATA9	-1503	-1496	-	6.10	CTATTAT
SPATA9	-1152	-1145	+	6.06	TTAATTT
SPATA9	-0947	-940	+	6.35	TTAATAG
IGSF9B	-1412	-1405	+	7.00	TTAAGTG
IGSF9B	-1305	-1298	+	5.99	TTAAGAG
JAM3	-1249	-1242	+	6.06	TTAATTT
NCAPD3	-1374	-1367	+	6.06	TTAATTT
NTM	-0942	-935	+	5.93	ACAATTG
CCDC90B	-1152	-1145	+	6.06	TTAATTT
CCDC90B	-1020	-1013	-	6.06	AAATTAA
ANKRD42	-1393	-1386	+	6.75	ATAAGTG
ANKRD42	-1371	-1364	+	6.06	TTAATTT
PCF11	-1465	-1458	+	6.06	TTAATTT
PCF11	-1449	-1442	-	6.10	CTATTAT
PCF11	-1240	-1233	-	7.10	CAATTAT
PCF11	-1146	-1139	+	7.00	TTAAGTG
PCF11	-0994	-987	+	6.06	TTAATTT
RAB30	-1372	-1365	+	6.06	TTAATTT
RAB30	-1081	-1074	-	6.06	AAATTAA
PRCP	-1326	-1319	+	7.00	TTAAGTG

6 MA0029.1 Evil 17.9085404291 0.280423281291 -1597:-1170  
2.01428854603e-05

## list of hits

SPATA9	-1429	-1415	+	2.64	GAAATAACATAAGA
SPATA9	-1399	-1385	+	3.50	ATGAAAATATAATT
SPATA9	-1258	-1244	+	7.35	AAGAAAAGACCAAA
SPATA9	-1170	-1156	-	5.34	TGTTTTCTTATATA
JAM3	-1551	-1537	-	3.62	TGTGATCTTGTTCT
JAM3	-1407	-1393	-	4.65	CATTATCTCATGTT
JAM3	-1307	-1293	+	2.81	GACAAAAGAGAAGA
JAM3	-1242	-1228	-	2.29	CTCTATTTTGTGTT
NCAPD3	-1202	-1188	+	5.56	GATATAAGATACTA
CCDC90B	-1182	-1168	-	4.31	TCTAATCTTTTTTTT
ANKRD42	-1521	-1507	-	7.44	TTTTCTCTTATCTG
ANKRD42	-1197	-1183	+	3.67	CTGGTAAGACAAAA
PCF11	-1361	-1347	+	2.87	GAGAAAATACAAGC
PCF11	-1279	-1265	-	2.69	AACAATCTTGTAACA
RAB30	-1597	-1583	-	7.59	ATTTATCTTGTAACA
RAB30	-1565	-1551	+	5.61	CACATAAGATCATT
RAB30	-1470	-1456	-	2.43	GTTTAGCCTTTCTT
PRCP	-1541	-1527	-	3.07	ATTAGTCTTGTAACA
PRCP	-1465	-1451	-	3.64	ACTGGTCTTTTCCT
PRCP	-1352	-1338	-	3.58	ATCACTCTTATCTT
PRCP	-1225	-1211	-	2.91	GTCTATCTTGTTCA

7 MA0100.1 Myb 9.88327768463 0.590686273136 -1662:-587  
2.30863082472e-05

## list of hits

OPCML	-0998	-990	+	8.53	GGCCGTTG
IGSF9B	-1201	-1193	-	6.45	CAACAGCC
IGSF9B	-1046	-1038	-	6.45	CAACTGTA
IGSF9B	-0658	-650	+	6.36	CGCAGTTG
NCAPD3	-1489	-1481	-	6.58	CAACTGCA
NCAPD3	-1336	-1328	+	6.39	GTCAGTTG
NTM	-1129	-1121	+	6.58	TGCAGTTG
ANKRD42	-1121	-1113	-	6.23	CAACTGTG
ANKRD42	-0929	-921	-	6.91	CAACTGTT
ANKRD42	-0648	-640	+	6.50	GGCAGTTA
PCF11	-0773	-765	+	6.45	GGCTGTTG
RAB30	-0596	-588	-	8.47	CAACCGCC
RAB30	-0587	-579	-	8.35	CAACTGTC
PRCP	-1496	-1488	-	8.35	CAACTGTC
PRCP	-0984	-976	+	6.58	TGCAGTTG
DDIAS	-1662	-1654	+	6.32	GACTGTTG
DDIAS	-1650	-1642	-	6.58	CAACTGCA
DDIAS	-1473	-1465	+	6.39	GTCGGTTG

8 MA0152.1 NFATC2 9.85861508532 0.346153842592 -1808:-1458  
2.82129056678e-05

## list of hits

OPCML	-1790	-1783	+	7.20	TTTTCCCT
OPCML	-1682	-1675	+	6.81	ATTTCCA
OPCML	-1621	-1614	+	8.69	TTTTCCA
OPCML	-1494	-1487	+	6.92	TTTTCCC
IGSF9B	-1653	-1646	+	6.42	GTTTCCA
JAM3	-1638	-1631	-	7.20	AGGAAAA
NCAPD3	-1790	-1783	+	8.69	TTTTCCA
NCAPD3	-1651	-1644	-	6.37	TGGAACA
NTM	-1466	-1459	-	7.20	AGGAAAA
CCDC90B	-1711	-1704	-	6.92	GGGAAAA
CCDC90B	-1650	-1643	-	6.42	TGGAAC
PCF11	-1762	-1755	+	8.69	TTTTCCA
PCF11	-1534	-1527	-	7.20	AGGAAAA
PCF11	-1491	-1484	-	8.69	TGGAACA
RAB30	-1731	-1724	+	7.20	TTTTCCCT
RAB30	-1677	-1670	+	6.81	ATTTCCA
PRCP	-1682	-1675	+	7.20	TTTTCCCT
PRCP	-1636	-1629	+	6.81	ATTTCCA
PRCP	-1477	-1470	+	8.69	TTTTCCA
PRCP	-1458	-1451	+	7.20	TTTTCCCT
DDIAS	-1808	-1801	-	6.81	TGGAAT
DDIAS	-1555	-1548	-	6.42	TGGAAC

9 MA0081.1 SPIB 9.06007130057 0.466472323191 191:258 4.57438269372e-05

## list of hits

NCAPD3	+0211	218	+	7.09	ACAGGAA
NCAPD3	+0251	258	+	6.55	TCAGGAA
NTM	+0210	217	+	6.55	TCAGGAA
NTM	+0258	265	+	7.82	AGAGGAA
ANKRD42	+0191	198	+	6.60	AGGGGAA
ANKRD42	+0231	238	-	7.82	TTCTCT
PCF11	+0234	241	+	7.82	AGAGGAA
DDIAS	+0256	263	+	7.82	AGAGGAA

10 MA0442.1 SOX10 7.96992529398 0.386363640428 -2233:-2196  
4.95980366363e-05

## list of hits

IGSF9B	-2233	-2227	+	6.89	CTTTGT
JAM3	-2210	-2204	+	6.67	CATTGT
CCDC90B	-2196	-2190	-	6.89	ACAAAG
ANKRD42	-2217	-2211	-	6.67	ACAATG
ANKRD42	-2207	-2201	+	6.89	CTTTGT
DDIAS	-2207	-2201	+	6.89	CTTTGT

11 MA0080.2 SPI1 9.64024729829 0.435374151649 -2362:-2189  
5.07215345463e-05

## list of hits

SPATA9	-2339	-2332	+	6.78	AGGAAAT
SPATA9	-2204	-2197	-	6.78	ATTTCCCT
IGSF9B	-2221	-2214	-	6.42	ACTTTCT
NCAPD3	-2229	-2222	-	6.42	ACTTTCT
NTM	-2362	-2355	-	8.65	ACTTCCT
NTM	-2343	-2336	-	6.42	ACTTTCT
NTM	-2287	-2280	-	6.45	ACTTCTT
NTM	-2223	-2216	+	6.45	AAGAAGT
NTM	-2201	-2194	-	6.78	ATTTCCCT
CCDC90B	-2359	-2352	+	6.31	AGGAAGA
ANKRD42	-2346	-2339	-	6.81	GCTTCCT
ANKRD42	-2189	-2182	-	6.31	TCTTCCT
PCF11	-2353	-2346	-	6.28	AGTTCCT
PCF11	-2342	-2335	-	6.42	ACTTTCT

12 MA0135.1 Lhx3 16.3541414376 0.130769234437 -1166:-798  
5.19814301523e-05

## list of hits

OPCML	-1051	-1038	-	3.42	ATAGACTTAATTT
OPCML	-0818	-805	+	6.84	AGATTAACTAAAA
SPATA9	-1158	-1145	-	4.54	TATTTGTTAATTT
JAM3	-1102	-1089	+	3.53	GATTGAATTATTT
JAM3	-1065	-1052	-	3.98	GGTAATGTAATTA
JAM3	-0933	-920	+	3.53	TAATTTAGTATAC
JAM3	-0888	-875	+	4.27	AACTAAATATAC
JAM3	-0798	-785	+	4.97	TATTTTACTAATG
NTM	-1009	-996	+	5.88	GAATTTATTAGAA
NTM	-0808	-795	-	3.77	AGAAGATAAAATGT
CCDC90B	-1166	-1153	+	3.42	TAAATAATCATTAA
CCDC90B	-1023	-1010	-	4.99	TATAAATTAATAA
CCDC90B	-0984	-971	-	9.27	AAATATTTAATGA
CCDC90B	-0838	-825	+	3.46	TGATTATTTTTCT
ANKRD42	-1026	-1013	+	6.83	GACTAATTATTC
ANKRD42	-0921	-908	-	5.34	AAATAGGTAATTA
RAB30	-1135	-1122	-	13.29	AGTTAATTAATTA
RAB30	-1115	-1102	-	5.91	GATTTTTTAATTA
RAB30	-1084	-1071	-	5.12	CACAAATTAAACA
PRCP	-1141	-1128	+	4.26	GAATAAACTAACT

13 MA0038.1 Gfi 9.47016685671 0.390566043556 -2261:-2123  
8.11958586816e-05

## list of hits

JAM3	-2137	-2127	+	6.22	TGAATCATTTG
NCAPD3	-2157	-2147	-	7.20	GGGTGATTTT
CCDC90B	-2123	-2113	+	6.12	CAAATCCCAT
ANKRD42	-2184	-2174	-	7.51	CTCAGATTTTG
ANKRD42	-2125	-2115	-	6.92	GACTGATTTT
PCF11	-2261	-2251	-	7.74	CAGAGATTTT
RAB30	-2159	-2149	-	7.19	CTTAGATTTTG
DDIAS	-2252	-2242	+	6.91	CAAATCTTAG
DDIAS	-2212	-2202	+	7.01	CAAATCTTTG
DDIAS	-2196	-2186	-	7.10	CGGAGATTTT