

S4. The potential target sites of transcription factors from GSEA, for 78 up-regulated DEGs.

TF binding site	Conserved motif in target	Count	P-value	FDR	Genes
FOXO4_01	TTGTTT	13	4.13E-05	1.27E-02	<i>RIT1, CLC, FKBP5, AGR2, CD36, RUNX2, NTRK2, GRK5, GATA2, ST6GAL1, SLC7A1, SLC18A2, SERPINB10</i>
LEF1_Q2	CTTTGT_	12	1.18E-04	1.45E-02	<i>RIT1, CLC, FKBP5, GRK5, GATA2, ST6GAL1, GSN, AKAP12, FHL1, DPYSL3, KIT, SLC39A8</i>
MAZ_Q6	GGGAGGRR_	12	4.36E-04	3.35E-02	<i>CLC, SERPINB2, NTRK2, GRK5, POSTN, GSN, AKAP12, IGF2BP3, SNCA, CD44, FGFBP1, AGPS</i>
AP1_C	TGANTCA_	10	2.01E-05	1.24E-02	<i>RIT1, CLC, FKBP5, AGR2, S100A2, SERPINB2, SPRR1A, MMP1, SPRR1B, TFF1</i>
TATA_01	TATAAA_	10	6.79E-05	1.39E-02	<i>RIT1, S100A2, SERPINB2, SPRR1A, CD36, RUNX2, POSTN, DEFB1, NOS2, HIST1H2BK</i>
AP1FJ_Q2	-	5	9.69E-05	1.45E-02	<i>CLC, S100A2, NTRK2, GSN, PTPRH</i>
UNKNOWN	SMTTTTGT_	5	6.25E-04	4.27E-02	<i>FKBP5, NTRK2, GRK5, GATA2, ST6GAL1, SLC7A1, PTGS1</i>
GFII_01	TGATTTRY_	5	1.49E-04	1.53E-02	<i>AGR2, CD36, IGF2BP3, SNCA, NMU</i>
NFE2_01	TGASTMAGC_	4	3.51E-04	3.08E-02	<i>RIT1, CLC, S100A2, CD44</i>