

Mesencephalic astrocyte-derived neurotropic factor is an important factor in chondrocyte ER homeostasis.

Cell Stress and Chaperones

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Table 1 A list of all statistically significantly changed genes in the RNAseq analysis of *Manf^{fl/fl} Col2Cre⁺* vs *Manf^{fl/fl} Col2Cre⁻* cartilage at postnatal day 5. Fold changes in log2 scale. Significantly changed genes at 1.5-fold cut-off have been highlighted in bold.

P5 UPREGULATED GENES				P5 DOWNREGULATED GENES			
ID	gene name	KOvsWT log2 Fold-Change	KOvsWT padj	ID	gene name	KOvsWT log2 Fold-Change	KOvsWT padj
ENSMUSG00000027313	Chac1	0.96684	7.00E-16	ENSMUSG00000103212	AC13239 3.1	-0.21312	0.020845
ENSMUSG00000032715	Trib3	0.69724	6.63E-08	ENSMUSG00000045573	Penk	-0.24892	0.044725
ENSMUSG00000032115	Hyou1	0.69158	2.00E-18	ENSMUSG00000041577	Prelp	-0.27017	0.025803
ENSMUSG00000029752	Asns	0.66058	1.23E-12	ENSMUSG00000034612	Chst11	-0.29682	0.003493
ENSMUSG00000026864	Hspa5	0.63051	7.05E-16	ENSMUSG00000003402	Prkcsb	-0.30336	0.010775
ENSMUSG00000022769	Sdf2l1	0.60545	1.55E-06	ENSMUSG00000043587	Pxylp1	-0.33952	0.011419
ENSMUSG00000078670	Fam174b	0.51797	0.000325	ENSMUSG00000028211	Trp53inp1	-0.34019	0.038522
ENSMUSG00000020571	Pdia6	0.50429	1.38E-12	ENSMUSG00000002732	Fkbp7	-0.36643	0.002987
ENSMUSG00000031232	Magt1	0.50325	3.66E-07	ENSMUSG00000030077	Chl1	-0.37961	0.035862
ENSMUSG00000030717	Nupr1	0.49545	3.66E-07	ENSMUSG00000064246	Chil1	-0.38275	0.029398
ENSMUSG00000020048	Hsp90b1	0.49220	1.62E-11	ENSMUSG00000033036	Gm7879	-0.38920	1.34E-05
ENSMUSG00000038539	Atf5	0.46326	5.90E-06	ENSMUSG00000029016	Cln6	-0.39150	0.0073
ENSMUSG00000014905	Dnajb9	0.46205	0.000468	ENSMUSG00000030111	A2m	-0.39392	1.76E-07
ENSMUSG00000023272	Creld2	0.45976	5.30E-07	ENSMUSG00000039542	Ncam1	-0.39395	0.017751
ENSMUSG00000035227	Spcs2	0.45919	6.16E-07	ENSMUSG00000028619	Tceanc2	-0.40241	0.034292
ENSMUSG00000025185	Loxl4	0.45367	0.001904	ENSMUSG00000075318	Scn2a1	-0.41590	0.022361
ENSMUSG00000054408	Spcs3	0.43682	5.30E-07	ENSMUSG00000021185	9030617 O03Rik	-0.42418	0.018513
ENSMUSG00000020368	Canx	0.43036	1.75E-07	ENSMUSG00000002985	ApoE	-0.43188	0.000336
ENSMUSG00000031490	Eif4ebp1	0.42313	0.000346	ENSMUSG00000028532	Cachd1	-0.43628	0.004229
ENSMUSG00000031297	Slc7a3	0.42171	0.010255	ENSMUSG00000078719	Msmg	-0.44447	0.00105
ENSMUSG00000006538	lhh	0.41009	0.025317	ENSMUSG00000074968	Ano3	-0.44534	0.009304
ENSMUSG00000015134	Aldh1a3	0.40359	0.033793	ENSMUSG00000026173	Plcd4	-0.45800	0.006123
ENSMUSG00000082697	Gm12913	0.40117	0.033793	ENSMUSG00000028453	Fancg	-0.48859	0.001904
ENSMUSG00000020873	Slc35b1	0.40063	0.000468	ENSMUSG00000071650	Ganab	-0.53674	3.06E-13
ENSMUSG00000028648	Ndufs5	0.39699	0.012446	ENSMUSG00000081824	BC002163	-0.63268	2.54E-11
ENSMUSG00000101188	Eif4a-ps4	0.39253	0.003791	ENSMUSG00000032575	Manf	-0.78863	2.07E-14