

Supplementary table 4: Enrichment of targets of transcription factors in the gene sets of energy and production (EnProd) and cardiac contraction (CC).

The targets have been detected by the ChIP experiments included in the ChEA database.

Green background: significant factors obtained in mouse experiments.

Transcriptional regulators			ChEA: enrichment of targets			ChEA2: enrichment of targets					
Gene symbol	Identified in	Genomatix type	Species	EnProd	CC	EnProd		Combined Score	CC		Combined Score
				p-Value	p-Value	P-value	Z-score		P-value	Z-score	
Crx	Ctrl mice	TF	Mouse	9.03E-04	0.0062	0.0022	-0.385	2.359	0.0107	-0.1177	0.534
Cttnb1	Ctrl mice	CoF	Human	8.05E-04	9.56E-05	0.0023	-0.181	1.102	2.54E-04	-0.6957	5.758
Eomes	Ctrl mice	TF	Human	1.52E-07	5.55E-05	8.81E-07	-1.025	14.285	1.50E-04	-0.8545	7.523
Eomes	Ctrl mice	TF	Mouse	1.85E-05	0.0256	1.07E-04	-0.519	4.740	0.0490	0.6265	-1.889
Sin3b	Ctrl mice	CoF	Mouse	1.16E-09	2.34E-08	5.61E-08	0.405	-6.754	3.47E-07	0.1022	-1.520
Tfap2a	Ctrl mice	TF	Human	0.0056	5.43E-08	0.0170	0.515	-2.099	3.55E-07	-0.9970	14.807
Myb	Isop mice	TF	Mouse	0.0013	0.0032	0.0034	-0.158	0.897	0.0063	-0.1239	0.628
Tcf7	Isop mice	TF	Mouse	0.0070	9.84E-10						
Irf1	CTR rats	TF	Human	0.0205	ns	0.0295	-0.306	1.078	ns		
Stat1	CTR rats	TF	Human	0.0230	ns	0.0407	0.207	-0.664	ns		
Ccnd1	LVH rats	CoF	Mouse	9.24E-15	ns	4.45E-13	-1.512	42.996	ns		
Wt1	LVH rats	TF	Human	ns	0.0042	ns			0.0061	-0.65	3.327
Wt1	LVH rats	TF	Mouse	ns	3.03E-11	ns			2.95E-10	-1.40	30.800

The targets come from experiments that were part of the ENCODE project. Green background: significant factors.

Transcriptional regulators			ENCODE TF CHIP-seq: enrichment of targets						
Gene symbol	Identified in	Genomatix type	Cell type (human)	EnProd			CC		
				P-value	Z-score	Combined Score	P-value	Z-score	Combined Score
RUNX3	Ctrl mice	TF	GM12878	ns			ns	-0.1990	0.0309
IRF1	CTR rats	TF	K562	0.0150	-0.3838	1.6110	ns	-0.8762	0.4154
STAT1	CTR rats	TF	GM12878	0.0020	-0.9040	5.6027	ns	0.0628	-0.0086
STAT1	CTR rats	TF	HELAS3	ns			ns	-0.9499	0.3939
E2F6	LVH rats	TF	H1	ns			ns	0.0980	-0.0129
E2F6	LVH rats	TF	HELAS3	ns			ns	0.7863	-0.0187
E2F6	LVH rats	TF	K562	ns					
ERRA	LVH rats	TF	HEPG2	5.02E-07	-1.5765	22.8661	ns	-1.4910	2.2786