

Comparison of gene expression in Pax7ko vs Pax7wt1 MEFs.					
Transcript ID	gene_assignment	Gene Symbol	RefSeq	p-value (Pax7ko vs Pax7wt)	Fold-Change (Pax7ko vs Pax7wt)
Genes upregulated in Pax7ko1 in comparison to Pax7wt1					
17448810	furry homolog-like (Drosophila)	Fryl	NM_028194	0,00760437	2,75252
17442940	predicted gene	Gm23245	ENSMUST00000083370	0,0151744	2,47275
17303024	predicted gene	Gm10021	AK084071	0,00260527	2,17966
17438963	pro-platelet basic protein	Pbp	NM_023785	0,0434204	1,82575
17245248	transformed mouse 3T3 cell double minute 2	Mdm2	NM_001288586	0,0177293	1,75374
17395705	YTH domain family 1	Ythdf1	NM_173761	0,0209947	1,62632
17276934	tetratricopeptide repeat domain 9	Ttc9	NM_001033149	0,00464318	1,61399
17428878	ring finger protein 220	Rnf220	NM_025739	0,0100833	1,57858
17363407	annexin A1	Anxa1	NM_010730	0,0121012	1,57151
17439830	secreted phosphoprotein 1	Spp1	NM_001204201	0,00107652	1,55817
17487211	FBJ osteosarcoma oncogene B	Fosb	NM_008036	0,0404584	1,55775
17430609	serine incorporator 2	Serinc2	XM_006536985	0,0336827	1,5062
17275490	family with sequence similarity 177, member A	Fam177a	XM_006516277	0,007208	1,50384
17275516	family with sequence similarity 177	Fam177a	XM_006516277	0,007208	1,50384
17296943	predicted gene	Gm8281	ENSMUST00000163719	0,0150286	1,50315
17250638	sperm antigen with calponin homology and coiled-coil domains	Specc1	NM_001029936	0,00869819	1,47257
17484940	CD151 antigen	Cd151	NM_001111049	0,000152344	1,46568
17268332	RIKEN cDNA 2010300F17 gene	2010300F17Rik	ENSMUST00000181758	0,0281706	1,45384
17342642	dual specificity phosphatase 1	Dusp1	NM_013642	0,0240651	1,44761
17410818	heparan sulfate 2-O-sulfotransferase 1	Hs2st1	NM_011828	0,0304823	1,44507
17301926	5-hydroxytryptamine (serotonin) receptor 2A	Htr2a	NM_172812	0,00013627	1,44484
17401066	nerve growth factor	Ngf	NM_013609	0,0247777	1,43426
17288992	EGF-like repeats and discoidin I-like domains 3	Edil3	NM_001037987	0,0122743	1,4312
17521218	poly(rC) binding protein 4	Pcbp4	NM_021567	0,0426095	1,4268
17482912	predicted gene	Gm25759	ENSMUST00000103988	0,0113989	1,41187
17353699	heparin-binding EGF-like growth factor	Hbegf	NM_010415	0,00892036	1,41033
17493643	monoacylglycerol O-acyltransferase 2	Mogat2	NM_177448	0,0136086	1,40707
17432227	filamin binding LIM protein 1	Fblim1	NM_001163256	0,009586	1,3984
17408121	predicted gene	Gm22581	ENSMUST00000083735	0,027051	1,39342
17341679	predicted gene	Gm25092	ENSMUST00000103996	0,0475437	1,38815
17242578	phosphatidic acid phosphatase type 2C	Ppap2c	NM_015817	7,09E-05	1,38628
17509591	tolloid-like	Tll1	NM_009390	0,0487158	1,38355
17364474	PDZ and LIM domain 1 (elfin)	Pdlim1	NM_016861	0,0338906	1,38262
17431053	zinc finger, DHHC domain containing 18	Zdhhc18	NM_001017968	0,000916073	1,38245
17364176	ankyrin repeat domain 1 (cardiac muscle)	Ankrd1	NM_013468	0,00322857	1,3795
17286375	serine (or cysteine) peptidase inhibitor, clade B, member 9b	Serpinb9b	NM_011452	0,028553	1,37887
17320494	synaptonemal complex central element protein 3	Syce3	NM_001162880	0,00571949	1,37865
17380199	RNA binding motif protein 38	Rbm38	XM_006499923	0,0404387	1,37812
17533413	ribosomal protein L3, pseudogene 1	Rpl3-ps1	ENSMUST00000120557	0,00246433	1,3781
17457773	T cell receptor beta joining 1-1	Trbj1-1	ENSMUST00000103284	0,0241103	1,37543
17398903	nestin	Nes	NM_016701	0,0430386	1,36576
17291353	predicted gene	Gm22303	ENSMUST00000082686	0,0397506	1,3626
17439909	leucine rich repeat containing 8 family, member C	Lrrcc8c	ENSMUST00000067924	0,0462749	1,36251
17303088	predicted gene	Gm3264	NM_001242945	0,0460313	1,34785
17248068	mitochondrial translational initiation factor 2	Mtif2	NM_001282118	4,69E-05	1,34345
17491853	tight junction protein 1	Tjp1	NM_001163574	0,0422441	1,34133
17434297	cyclin-dependent kinase 6	Cdk6	NM_009873	0,0153972	1,33993
17430645	Na+/K+ transporting ATPase interacting 1	Nkain1	NM_025998	0,00869138	1,33397
17302981	predicted gene	Gm3138	ENSMUST00000165431	0,0143289	1,3251
17294086	adenylate cyclase 2	Adcy2	NM_153534	0,0379538	1,31738
17285654	microRNA 1896	Mir1896	NR_035441	0,0328393	1,3163
17500494	predicted gene	Gm24727	ENSMUST00000158231	0,000343948	1,31229
17300544	fat storage-inducing transmembrane protein 1	Fitm1	NM_026808	0,0258648	1,30497
17291355	acyl-CoA thioesterase 13	Acot13	NM_025790	0,023297	1,30262
Genes downregulated in Pax7ko1 in comparison to Pax7wt1					
17516192	olfactory receptor 914	Olfr914	NM_146786	0,0087116	-1,30109
17363777	predicted gene	Gm10136	ENSMUST00000183196	0,0397946	-1,30188
17474454	dystrophia myotonica-protein kinase	Dmpk	NM_001190491	0,014947	-1,30321
17547628	ubiquitin-60S ribosomal protein L40-like	LOC102637963	XR_388701	0,00314378	-1,3039
17548012	predicted pseudogene	Gm6594	ENSMUST00000097278	0,018984	-1,30495
17287325	sphingosine-1-phosphate receptor 3	S1pr3	NM_010101	0,0154209	-1,30542
17352824	zinc finger protein 521	Zfp521	NM_145492	0,0330217	-1,30582
17378329	dynein light chain roadblock-type 1	Dynlrb1	NM_001291108	0,00953841	-1,30591
17301615	ectonucleoside triphosphate diphosphohydrolase 4	Entpd4	NM_026174	0,0154855	-1,30652
17328110	protamine 3	Prm3	NM_013638	0,0133038	-1,30715
17499670	cadherin-11-like	LOC101056094	ENSMUST00000133001	0,0297097	-1,31165
17279986	predicted gene	Gm23781	ENSMUST00000157940	0,00665717	-1,31239
17227806	predicted gene	Gm22681	ENSMUST00000083853	0,0447455	-1,31734
17219185	olfactomedin-like 2B	Olfm12b	NM_177068	0,0496929	-1,31963
17513641	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	Slc7a5	NM_011404	0,0415591	-1,31983
17498126	H19, imprinted maternally expressed transcript	H19	NR_001592	0,0166155	-1,32038
17341080	thrombospondin 2	Thbs2	NM_011581	0,00543922	-1,3241
17221215	COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis)	Cops5	NM_013715	0,0105449	-1,32683
17533934	spindlin family, member 2F	Spin2f	ENSMUST00000177990	0,0192215	-1,32696
17245223	lysozyme 2	Lyz2	ENSMUST00000092163	0,0161551	-1,32787
17331078	transmembrane protein 45a	Tmem45a	NM_019631	0,0106863	-1,33151
17495168	RIKEN cDNA 1700012D14 gene	1700012D14Rik	NR_015573	0,0490009	-1,33381
17480652	phosphoglucosmutase 2-like 1	Pgm2l1	NM_027629	0,0304458	-1,33907
17214823	nuclear encoded rRNA 5S 213	n-R5s213	ENSMUST00000083121	0,0479953	-1,34094
17229096	paired related homeobox 1	Prrx1	NM_001025570	0,0362962	-1,34224
17419405	small nucleolar RNA, H/ACA box 16A	Snora16a	NR_029412	0,0257047	-1,34464
17398287	NMD3 homolog (S. cerevisiae)	Nmd3	NM_133787	0,0192949	-1,34542
17519009	general transcription factor II A, 2	Gtf2a2	NM_001039519	0,028437	-1,34619
17515786	Rho GTPase activating protein 32	Arhgap32	NM_001195632	0,00784752	-1,3473
17337197	corneodesmosin	Cdsn	NM_001008424	0,014374	-1,34854
17242177	collagen, type VI, alpha 1	Col6a1	NM_009933	0,00563255	-1,34921

17397575	periostin, osteoblast specific factor	Postn	NM_001198765	0,00389203	-1,34928
17228073	ral guanine nucleotide dissociation stimulator-like 1	Rgl1	NM_016846	0,0442545	-1,35644
17326318	ABI gene family, member 3 (NESH) binding protein	Abi3bp	NM_001014399	0,0146196	-1,36204
17405075	protocadherin 18	Pcdh18	NM_130448	0,00513797	-1,36277
17211973	unc-50 homolog (C. elegans)	Unc50	NM_026123	0,0180629	-1,36397
17325069	HEG homolog 1 (zebrafish)	Heg1	NM_175256	0,0161763	-1,36917
17278690	microRNA 493	Mir493	NR_030573	0,0140978	-1,36952
17278692	microRNA 337	Mir337	NR_029765	0,00867121	-1,37137
17397170	sprouty homolog 1 (Drosophila)	Spry1	NM_011896	0,00674947	-1,37191
17377498	brain glycogen phosphorylase	Pygb	NM_153781	0,00127506	-1,37643
17280590	protein kinase, cAMP dependent regulatory, type II beta	Prkar2b	XM_006515014	0,00633337	-1,38231
17236182	tissue inhibitor of metalloproteinase 3	Timp3	NM_011595	0,000607531	-1,38724
17296344	follostatin	Fst	NM_008046	0,0226994	-1,3934
17451614	RIKEN cDNA 2610524H06 gene	2610524H06Rik	NM_181075	0,0195933	-1,39526
17297490	fucosyltransferase 11	Fut11	NM_028428	0,0284226	-1,39794
17388016	olfactory receptor 1269	Olfr1269	BC116956	0,000454392	-1,40048
17287827	transforming growth factor, beta induced	Tgfb1	NM_009369	0,0410899	-1,40303
17498245	cyclin-dependent kinase inhibitor 1C (P57)	Cdkn1c	NM_001161624	0,00126332	-1,4093
17242150	collagen, type VI, alpha 2	Col6a2	NM_146007	0,0122883	-1,41804
17453222	Williams-Beuren syndrome chromosome region 17 homolog (human)	Wbscr17	NM_145218	0,0467387	-1,45094
17425631	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	Svep1	NM_022814	0,00671956	-1,4585
17308712	predicted gene	Gm24876	ENSMUST00000158780	0,0276829	-1,4736
17373530	synaptotagmin XIII	Syt13	NM_030725	0,00579309	-1,4823
17500068	secreted frizzled-related protein 1	Sfrp1	NM_013834	0,0115487	-1,49285
17250839	peripheral myelin protein 22	Pmp22	NM_008885	0,0474003	-1,49578
17293006	chemokine (C-X-C motif) ligand 14	Cxcl14	NM_019568	0,0131196	-1,49737
17486110	paternally expressed 3	Peg3	NM_008817	0,00987732	-1,50716
17496947	fibroblast growth factor receptor 2	Fgfr2	NM_010207	0,0013381	-1,51204
17274021	odd-skipped related 1 (Drosophila)	Osr1	NM_011859	0,00957373	-1,53363
17225413	collagen, type VI, alpha 3	Col6a3	NM_001243008	0,00102219	-1,5383
17507605	growth arrest specific 6	Gas6	NM_019521	0,000112686	-1,54164
17405489	immunoglobulin superfamily, member 10	Igsf10	NM_001162884	0,0450147	-1,55695
17492947	cell migration inducing protein, hyaluronan binding	Cemip	NM_030728	0,0140903	-1,56272
17381717	integrin alpha 8	Itga8	NM_001001309	0,0298999	-1,584
17354513	fibrillin 2	Fbn2	NM_010181	0,0152395	-1,60024
17465856	pleiotrophin	Ptn	NM_008973	0,00361837	-1,60649
17348282	collectin sub-family member 12	Colec12	NM_130449	0,0449207	-1,62394
17267601	serine carboxypeptidase 1	Scpep1	NM_029023	0,0243058	-1,63052
17260474	insulin-like growth factor binding protein 3	Igfbp3	NM_008343	0,0108642	-1,65393
17397185	FAT tumor suppressor homolog 4 (Drosophila)	Fat4	NM_183221	0,00201648	-1,70285
17458813	aquaporin 1	Aqp1	NM_007472	0,0211711	-1,7264
17232593	laminin, alpha 4	Lama4	NM_010681	0,00806862	-1,73973
17227077	proline arginine-rich end leucine-rich repeat	Prelp	NM_054077	0,0409724	-1,74523
17212185	interleukin 1 receptor, type I	Il1r1	NM_001123382	0,00791155	-1,75084
17311191	collagen triple helix repeat containing 1	Cthrc1	NM_026778	0,0485019	-1,77811
17319783	cytochrome b5 reductase 3	Cyb5r3	NM_029787	0,0186252	-1,89638
17311519	nephroblastoma overexpressed gene	Nov	NM_010930	0,0206246	-1,91744
17278647	delta-like 1 homolog (Drosophila)	Dlk1	NM_001190703	0,0089078	-1,93458
17310339	C1q and tumor necrosis factor related protein 3	C1qtnf3	NM_001204134	0,017289	-1,94124
17456934	mesoderm specific transcript	Mest	NM_001252292	0,0482767	-1,98159
17214106	insulin-like growth factor binding protein 2	Igfbp2	NM_008342	0,00309273	-2,00347
17289928	phosphatidic acid phosphatase type 2A	Ppap2a	NM_008247	0,0397463	-2,02921
17219475	coatomer protein complex subunit alpha	Copa	NM_009938	0,00457492	-2,19389
17423030	preproenkephalin	Penk	ENSMUST00000070375	0,00317392	-2,92228
17378322	itchy, E3 ubiquitin protein ligase	Itch	NM_001243712	0,0247769	-3,20422
17236800	decorin	Dcn	NM_001190451	0,00783913	-3,80697
17267418	RIKEN cDNA A130040M12 gene	A130040M12Rik	AK037717	0,0302246	-17,0973