

Table S1 Differential analysis of 138 gene expression profiles in high- and low-HOXD10 expression groups

gene_id	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	gene_name
ENSG00000183090	91.80189317	-2.252226503	0.452313159	-4.97935216	6.38E-07	0.000423772	FREM3
ENSG00000198028	62.57640964	-1.886907802	0.383842699	-4.91583612	8.84E-07	0.000510209	ZNF560
ENSG00000124875	105.4122709	-1.85099547	0.415522718	-4.454619184	8.40E-06	0.00314756	CXCL6
ENSG00000125813	25.4807242	-1.777512845	0.41650434	-4.267693448	1.98E-05	0.005533166	PAX1
ENSG00000275385	133.1427598	-1.700406658	0.389942275	-4.360662504	1.30E-05	0.004306609	CCL18
ENSG00000105989	55.09176323	-1.695884687	0.32953519	-5.146293142	2.66E-07	0.000228132	WNT2
ENSG00000178919	2.596656921	-1.685677559	0.481059274	-3.504095336	0.000458161	0.035907969	FOXE1
ENSG00000148704	36.95544872	-1.657954733	0.355447528	-4.664414862	3.09E-06	0.001452776	VAX1
ENSG00000183032	10.95386445	-1.615972184	0.338434511	-4.774844567	1.80E-06	0.0009311	SLC25A21
ENSG00000204764	41.46130484	-1.600624952	0.247070243	-6.478420598	9.27E-11	3.26E-07	RANBP17
ENSG00000276547	108.3796243	-1.566644069	0.246755233	-6.348980127	2.17E-10	6.94E-07	PCDHGB5
ENSG00000262406	31.74954675	-1.521085473	0.401385994	-3.789582837	0.0001509	0.019010834	MMP12
ENSG00000112232	27.48770002	-1.504589185	0.281346825	-5.347809371	8.90E-08	0.000108073	KHDRBS2
ENSG00000198354	5.327996846	-1.475243236	0.392051658	-3.762879722	0.000167968	0.020113311	DCAF12L2
ENSG00000147655	175.8189331	-1.47101673	0.280479115	-5.244656921	1.57E-07	0.000162123	RSPO2
ENSG00000105825	190.5446189	-1.406058018	0.305657311	-4.600112495	4.22E-06	0.001905867	TFPI2
ENSG00000123838	12.63404429	-1.38456744	0.360228384	-3.8435823	0.000121251	0.016939097	C4BPA
ENSG00000107984	370.6554381	-1.33377815	0.386570812	-3.450281577	0.000560002	0.038059604	DKK1
ENSG00000125726	57.41533986	-1.308568193	0.294594776	-4.441925997	8.92E-06	0.003269563	CD70
ENSG00000019169	343.4138351	-1.299905434	0.35364696	-3.675714996	0.000237184	0.024464922	MARCO
ENSG00000166926	4.686563268	-1.235644199	0.325499456	-3.796148273	0.000146962	0.01881376	MS4A6E
ENSG00000134160	3.936778072	-1.16595626	0.261373373	-4.460883858	8.16E-06	0.003115894	TRPM1
ENSG00000162897	4.027003872	-1.12978469	0.318655487	-3.54547383	0.000391908	0.033145834	FCAMR
ENSG00000115009	129.9466138	-1.114856928	0.334410204	-3.333800564	0.000856681	0.047872127	CCL20
ENSG00000163739	158.985967	-1.114502583	0.281445019	-3.959930033	7.50E-05	0.012689325	CXCL1
ENSG00000145824	4568.53479	-1.110332118	0.281614519	-3.942737478	8.06E-05	0.01325235	CXCL14
ENSG00000148677	16.33083931	-1.068341453	0.277065043	-3.855922931	0.000115294	0.016567015	ANKRD1
ENSG00000157766	457.4753697	-1.062467436	0.305942199	-3.472771779	0.000515113	0.037186146	ACAN
ENSG00000004939	10.65201387	-1.02531477	0.263403203	-3.89256758	9.92E-05	0.015353879	SLC4A1
ENSG00000158578	27.70170205	-1.021258465	0.264114771	-3.866722258	0.000110308	0.016180795	ALAS2
ENSG00000213934	2.065993018	-1.012793307	0.277818733	-3.645518416	0.000266853	0.026096029	HBG1
ENSG00000120093	766.4275646	1.00704071	0.271973539	3.702715769	0.000213304	0.023208207	HOXB3
ENSG00000104055	124.665326	1.007906084	0.282493189	3.567895172	0.00035986	0.031576978	TGM5
ENSG00000175879	315.5460611	1.008896481	0.273413553	3.690001715	0.000224253	0.023842465	HOXD8
ENSG00000106258	122.4938244	1.017594423	0.201713288	5.044756512	4.54E-07	0.000368372	CYP3A5
ENSG00000156150	32.06834144	1.018359513	0.273311771	3.725999466	0.000194543	0.022022122	ALX3

ENSG00000104415	741.8591815	1.023036733	0.291282075	3.512185679	0.000444437	0.035403223	WISP1
ENSG00000182600	439.0958497	1.05098805	0.242680949	4.330739817	1.49E-05	0.004713321	C2orf82
ENSG00000118004	99.62207921	1.057106887	0.255899712	4.130942082	3.61E-05	0.008271531	COLEC11
ENSG00000149451	879.6145724	1.057222472	0.234358568	4.511132162	6.45E-06	0.002643638	ADAM33
ENSG00000124749	213.7303368	1.068754097	0.309508437	3.453069353	0.000554246	0.038025313	COL21A1
ENSG00000143107	45.00127495	1.094059222	0.259157609	4.221597913	2.43E-05	0.006373065	FNDC7
ENSG00000109705	69.39194301	1.095320859	0.240743396	4.549744156	5.37E-06	0.002278195	NKX3-2
ENSG00000181778	7.685112199	1.105688558	0.276320714	4.00146823	6.30E-05	0.011482785	TMEM252
ENSG00000116690	40.91733347	1.107279531	0.273768445	4.044584216	5.24E-05	0.010445935	PRG4
ENSG00000125740	1039.462721	1.108248767	0.309079665	3.585641155	0.000336251	0.030403148	FOSB
ENSG00000205856	2.691050644	1.112443751	0.328593809	3.385467769	0.000710571	0.043657305	C22orf42
ENSG00000163273	35.10867915	1.113965439	0.280221324	3.975305743	7.03E-05	0.012130003	NPPC
ENSG00000135454	1865.74903	1.12101748	0.215359769	5.205324486	1.94E-07	0.000184263	B4GALNT1
ENSG00000137699	90.63584023	1.132654604	0.294980968	3.839754861	0.000123157	0.016989729	TRIM29
ENSG00000002745	97.47811301	1.136037372	0.337389231	3.367141772	0.000759516	0.044939112	WNT16
ENSG00000278500	12.69319932	1.138695582	0.28472654	3.999260424	6.35E-05	0.011530678	AC009336.2
ENSG00000034239	91.91069623	1.138746804	0.340545051	3.343894739	0.000826111	0.047090573	EFCAB1
ENSG00000174279	20.64925828	1.145344997	0.243656606	4.700652351	2.59E-06	0.001250654	EVX2
ENSG00000178602	147.7486883	1.14634072	0.30787311	3.723419431	0.000196543	0.022106333	OTOS
ENSG00000127129	9.279095624	1.147377076	0.320023638	3.585288517	0.000336706	0.030403148	EDN2
ENSG00000180176	7.069647177	1.14957918	0.306913689	3.745610646	0.000179956	0.020771586	TH
ENSG00000167858	297.4080181	1.154265536	0.316411544	3.647988066	0.000264302	0.02591852	TEKT1
ENSG00000132434	11021.65791	1.156392975	0.272994401	4.235958582	2.28E-05	0.006163007	LANCL2
ENSG00000164099	318.649186	1.164087666	0.250368541	4.649496536	3.33E-06	0.00154136	PRSS12
ENSG00000164879	2265.993944	1.178352339	0.323760925	3.639575533	0.000273088	0.026485005	CA3
ENSG00000053438	3929.236675	1.186084205	0.35149227	3.374424718	0.000739701	0.04450751	NNAT
ENSG00000143171	149.4120836	1.189384938	0.267486555	4.446522322	8.73E-06	0.003234102	RXRG
ENSG00000091704	5.270158258	1.196117104	0.327638334	3.65072392	0.000261502	0.025805001	CPA1
ENSG00000164778	247.781438	1.199368345	0.207915656	5.768533111	8.00E-09	1.56E-05	EN2
ENSG00000135447	382.3877435	1.209894257	0.296093075	4.086195725	4.39E-05	0.009484279	PPP1R1A
ENSG00000107187	11.53954944	1.212947601	0.362588509	3.345245566	0.000822097	0.047060068	LHX3
ENSG00000124159	45.21851175	1.233876963	0.280762795	4.394731011	1.11E-05	0.003845161	MATN4
ENSG00000108001	78.45629567	1.237857063	0.307463448	4.02602999	5.67E-05	0.010972829	EBF3
ENSG00000175356	1706.673613	1.25214204	0.237781286	5.265940238	1.39E-07	0.000153443	SCUBE2
ENSG00000166426	151.464542	1.253899939	0.361359194	3.469954439	0.000520547	0.037247652	CRABP1
ENSG00000175189	18.89923499	1.254707939	0.287932527	4.357645696	1.31E-05	0.004325575	INHBC
ENSG00000111012	331.1003687	1.271481074	0.30626485	4.151573629	3.30E-05	0.00785445	CYP27B1
ENSG00000136698	2.091394684	1.286221322	0.371409872	3.46307791	0.000534034	0.037736753	CFC1

ENSG00000102239	3.565828281	1.317597072	0.337404759	3.905093327	9.42E-05	0.014936598	BRS3
ENSG00000123388	127.3186921	1.318928758	0.31687319	4.1623236	3.15E-05	0.007544539	HOXC11
ENSG00000144891	56.79639638	1.335151182	0.267813402	4.98537853	6.18E-07	0.000423772	AGTR1
ENSG00000181378	77.57481361	1.336345199	0.325244682	4.10873805	3.98E-05	0.008963297	CFAP65
ENSG00000183671	86.48383546	1.338045214	0.283333655	4.722507164	2.33E-06	0.001139052	GPR1
ENSG00000101958	116.9315406	1.3414458	0.308748812	4.34478044	1.39E-05	0.00450285	GLRA2
ENSG00000136574	98.41904552	1.345352185	0.376772056	3.570732393	0.000355984	0.031488524	GATA4
ENSG00000135903	145.497577	1.346015635	0.321851843	4.18209703	2.89E-05	0.007118132	PAX3
ENSG00000174898	6.485326656	1.348123686	0.306826837	4.393760663	1.11E-05	0.003845161	CATSPERD
ENSG00000172236	25.21746871	1.363821274	0.366124369	3.725021851	0.000195298	0.022036785	TPSAB1
ENSG00000123364	135.6878592	1.3656242	0.351247051	3.887930715	0.000101102	0.015353879	HOXC13
ENSG00000187889	10.20168572	1.377009318	0.297462695	4.629183218	3.67E-06	0.001678459	FYB2
ENSG00000163081	9.37716044	1.390589748	0.377519255	3.683493566	0.000230059	0.023962053	CCDC140
ENSG00000006377	109.9108332	1.398469697	0.373293187	3.746303828	0.000179459	0.020771586	DLX6
ENSG00000177551	58.64552537	1.399069604	0.30563642	4.577561806	4.70E-06	0.002044614	NHLH2
ENSG00000077274	57.2714846	1.408437847	0.349832674	4.026032878	5.67E-05	0.010972829	CAPN6
ENSG00000103546	5.981562171	1.41363694	0.382802757	3.692859871	0.000221746	0.023800536	SLC6A2
ENSG00000074771	4.6646401	1.43987279	0.368489998	3.907494903	9.33E-05	0.014923401	NOX3
ENSG00000188620	1.274670888	1.44134736	0.419273519	3.437725721	0.000586622	0.039267169	HMX3
ENSG00000141744	76.74737636	1.450107254	0.301997411	4.801720821	1.57E-06	0.000852004	PNMT
ENSG00000091583	10.8604485	1.456941778	0.378853282	3.845662282	0.000120227	0.016911959	APOH
ENSG00000131864	1.56510599	1.486251972	0.434815915	3.418117692	0.000630558	0.040960848	USP29
ENSG00000112238	37.16736171	1.492811698	0.432212947	3.4538801	0.000552583	0.038025313	PRDM13
ENSG00000102287	256.6587514	1.509374372	0.271740014	5.554479619	2.78E-08	4.08E-05	GABRE
ENSG00000170178	12.64566751	1.532233392	0.271483935	5.643919197	1.66E-08	2.66E-05	HOXD12
ENSG00000184344	1.912967651	1.532720265	0.403994126	3.793917206	0.000148289	0.018846639	GDF3
ENSG00000171786	213.753107	1.534472073	0.292501717	5.24602757	1.55E-07	0.000162123	NHLH1
ENSG00000171551	51.35799877	1.560690243	0.313147458	4.983882837	6.23E-07	0.000423772	ECEL1
ENSG00000007350	198.4200365	1.563363332	0.30107869	5.192540637	2.07E-07	0.000186429	TKTL1
ENSG00000075891	21.74776142	1.564149531	0.374031951	4.181860742	2.89E-05	0.007118132	PAX2
ENSG00000120075	51.19300447	1.567023943	0.378489409	4.140205532	3.47E-05	0.008090034	HOXB5
ENSG00000184601	6.026372359	1.568992591	0.318175207	4.931222026	8.17E-07	0.000479473	C14orf180
ENSG00000186081	67.38182056	1.569831445	0.364381939	4.308203221	1.65E-05	0.004995047	KRT5
ENSG00000133115	26.55813559	1.574950099	0.473798878	3.32408997	0.000887076	0.049025904	STOML3
ENSG00000135346	2.148306898	1.575877954	0.440065802	3.581005269	0.000342275	0.030512836	CGA
ENSG00000205221	37.58815396	1.595079747	0.29116838	5.478203867	4.30E-08	5.82E-05	VIT
ENSG00000164093	79.9879619	1.652901356	0.450596977	3.668247772	0.000244218	0.024777265	PITX2
ENSG00000165409	153.8044551	1.662750084	0.3328133	4.996044584	5.85E-07	0.000423772	TSHR

ENSG00000078399	98.92018258	1.663058441	0.332632683	4.999684412	5.74E-07	0.000423772	HOXA9
ENSG00000128709	262.5350153	1.677715226	0.233334455	7.190173547	6.47E-13	4.56E-09	HOXD9
ENSG00000186471	25.28651104	1.684661963	0.344758712	4.886495695	1.03E-06	0.00058285	AKAP14
ENSG00000182329	36.7867086	1.686021483	0.251290569	6.709449895	1.95E-11	9.83E-08	KIAA2012
ENSG00000174450	3.858757342	1.691208449	0.407991246	4.14520769	3.40E-05	0.007968202	GOLGA6L2
ENSG00000186439	46.74984483	1.717853112	0.385248201	4.459081461	8.23E-06	0.003115894	TRDN
ENSG00000146910	171.1400437	1.74897905	0.286065719	6.113906477	9.72E-10	2.63E-06	CNPY1
ENSG00000008196	49.4933095	1.755119932	0.353869151	4.959799203	7.06E-07	0.000443621	TFAP2B
ENSG00000197253	23.22974461	1.759517957	0.323427527	5.44022326	5.32E-08	6.69E-05	TPSB2
ENSG00000125879	5.790756107	1.759621459	0.521980017	3.371051382	0.000748819	0.044704275	OTOR
ENSG00000182533	7.299712204	1.812161693	0.30572502	5.92742359	3.08E-09	7.74E-06	CAV3
ENSG00000184811	7.709331218	1.819755636	0.334397731	5.441889901	5.27E-08	6.69E-05	TUSC5
ENSG00000091181	11.39580384	1.828773837	0.36919084	4.953464814	7.29E-07	0.000450275	IL5RA
ENSG00000159184	166.7973003	1.908069891	0.386638278	4.935025832	8.01E-07	0.000478664	HOXB13
ENSG00000128714	303.4893621	1.913869452	0.303843203	6.298872024	3.00E-10	8.80E-07	HOXD13
ENSG00000152611	23.93081971	1.923290092	0.430285538	4.469799526	7.83E-06	0.003028905	CAPSL
ENSG00000180264	37.98506188	1.934146553	0.337368849	5.733032433	9.87E-09	1.74E-05	ADGRD2
ENSG00000184895	12.84869273	1.998401815	0.473337579	4.221937793	2.42E-05	0.006373065	SRY
ENSG00000138083	26.25280589	2.026930829	0.344193576	5.888926954	3.89E-09	8.55E-06	SIX3
ENSG00000128713	153.9966132	2.224408927	0.225584419	9.860649683	6.16E-23	1.09E-18	HOXD11
ENSG00000135443	1.083877781	2.244204615	0.646397972	3.471862094	0.000516862	0.037186146	KRT85
ENSG00000179813	16.55876312	2.335641152	0.512064361	4.561225756	5.09E-06	0.002183391	FAM216B
ENSG00000270168	18.71526377	2.362964348	0.474111114	4.983988515	6.23E-07	0.000423772	AC004233.2
ENSG00000170498	13.70175856	2.515123683	0.428627292	5.867857067	4.41E-09	9.14E-06	KISS1
ENSG00000128710	327.7999431	2.515469071	0.210689911	11.93920041	7.39E-33	2.60E-28	HOXD10
ENSG00000120068	92.17890663	3.171617394	0.408147703	7.770758901	7.80E-15	6.87E-11	HOXB8