

Symbol	Synonym	Entrez Gene	Entrez Gene	Intensity	Delta_Log	Location	Family function
ADAMTS2	a disintegrin-like and	ADAM	me	NM_02159	15.0	1.1254766	Extracellular peptidase
ALKBH1	2700073G alkB, alkylation repair homolog 1					0.5684066	Cytoplasm enzyme
ALPL	AKP2, ALP alkaline phosphatase			NM_00112	19.7	0.8530433	Plasma Membrane phosphatase
ALX4	ALX homeobox 4			NM_02192	16.3	-0.0880561	Nucleus transcription regulator
AMER1	2810002O APC membrane protein 1			NM_15242	11.9	-0.0724131	Plasma Membrane other
APOE	AD2, AI25 apolipoprotein			NM_00004	16.6	0.5746566	Extracellular transporter
BMP4	BMP2B, Bone morphogenetic protein 4			NM_13088	16.3	0.1652333	Extracellular growth factor
BMP7	bone morphogenetic protein 7			NM_00171	11.3	-0.0865061	Extracellular growth factor
CCND1	AI327039, cyclin D1			NM_05308	26.3	0.0574033	Nucleus transcription regulator
CDKN1A	CAP20, Cyclin-dependent kinase 1			NM_00038	14.4	1.7663000	Nucleus kinase
CHSY1	CHONDRIN, chondroitinase			NM_01491	27.9	-0.0677661	Cytoplasm enzyme
COL11A2	collagen, type XI, alpha 2					-0.1826931	Extracellular other
COL12A1	AW74388, collagen, type XII, alpha 1			NM_00437	5.3	0.8381266	Extracellular other
COL18A1	COLLAGE, collagen, type XVIII, alpha 1			NM_13044	50.4	-0.1182361	Extracellular other
COL2A1	ANFH, Collagen, type II, alpha 1			NM_00184	1.3	0.2310433	Extracellular other
CREBBP	AW55829, CREB-binding protein			NM_00438	21.6	-0.3455261	Nucleus transcription regulator
CYP27B1	1-Hydroxyl cytochrome P450, family 27, subfamily B, member 1					-0.1387491	Cytoplasm enzyme
DLL3	delta-like 3 (Drosophila)					-0.4834291	Extracellular other
DLX1	distal-less 1, homeobox protein					-0.2467261	Nucleus transcription regulator
DMRT2	doublesex 2, homeobox protein			NM_00658	15.0	-0.1355491	Nucleus other
DVL1	DISHEVELLED, segment polarity protein 1					-0.0260801	Cytoplasm other
DVL3	dishevelled 3, segment polarity protein					0.2992433	Cytoplasm other
E2F3	E2F transcription factor 3			NM_00194	12.5	0.0192633	Nucleus transcription regulator
EFNB1	Cek5-L, Ephrin-B1			NM_00442	13.8	-0.0248631	Plasma Membrane other
EGLN2	0610011A egl-9 family hypoxia-inducible factor 2					-0.1571961	Cytoplasm enzyme
ELN	AI385707, elastin			NM_00108	7.8	-0.0716631	Extracellular other
EMX2	empty spiracle 2, homeobox protein			NM_00118	13.5	0.0385899	Nucleus transcription regulator
EN1	engrailed 1, homeobox protein			NM_00142	16.9	0.0662233	Nucleus transcription regulator
EPHB3	AW45689, Eph receptor B3			NM_00444	16.9	-0.35534	Plasma Membrane kinase
EYA1	BOP, BOF EYA transcription factor 1			NM_00050	18.8	0.6492266	Nucleus phosphatase
FAM20C	BC004044 family with			NM_02022	11.3	-0.64276	Extracellular enzyme
FBN1	ACMICD, fibrillin 1			NM_00018	14.1	2.3645200	Extracellular other
FGF3	fibroblast growth factor 3			NM_00524	12.8	-0.0561631	Extracellular growth factor
FGFR3	ACH, CD3 fibroblast growth factor receptor 3			NM_00118	32.6	-0.75474	Plasma Membrane kinase
FGFRL1	FGFR5, Fibroblast growth factor receptor-like 1			NM_02192	21.6	-0.2736461	Plasma Membrane transmembrane receptor
FKBP8	FK506 binding protein 8, 38kDa					-0.2621491	Cytoplasm other
FOSL2	FLJ23306, FOS-like protein 2			NM_00528	13.8	1.2218366	Nucleus transcription regulator
FOXF2	Fkh20, Forkhead box protein F2			NM_00148	14.7	-0.0533701	Nucleus transcription regulator
FOXI3	forkhead box protein I3			NM_00118	3.4		Nucleus transcription regulator
FST	AL033346 follistatin			NM_01340	7.5	0.3158900	Extracellular other
FZD9	CD349, frizzled class 9			NM_00350	23.8	-0.3081931	Plasma Membrane G-protein coupled receptor
GAD1	CPSQ1, E glutamate decarboxylase 1			NM_01344	13.5	-0.1617501	Cytoplasm enzyme
GBX2	D130058E gastrulation homeobox 2			NM_00148	26.0	-0.1044731	Nucleus transcription regulator
GDF6	BMP-13, Growth differentiation factor 6			NM_00100	18.5		Extracellular growth factor
GLI2	AW54612, Gli family zinc finger 2			NM_00527	19.4	-0.2030661	Nucleus transcription regulator
GNA11	BOS 7750 guanine nucleotide binding protein 11			NM_00200	19.7	0.1356299	Plasma Membrane enzyme
GNAI3	87U6, AI1 guanine nucleotide binding protein 3					-0.3315661	Cytoplasm enzyme
GPBR1	6330420K G protein-coupled receptor 1			NM_00100	16.9	-0.6100161	Plasma Membrane G-protein coupled receptor
GPR55	G protein-coupled receptor 55					-0.1208761	Plasma Membrane G-protein coupled receptor
H19	AI747191, H19, imprinting control region			NR_00219	15.4	1.2130100	Cytoplasm other
HIVP3	2900056N human immunodeficiency virus protein 3			NM_02450	17.9	1.9700033	Nucleus transcription regulator
HMX3	H6 family homeobox 3			NM_00110	7.5		Nucleus transcription regulator
HOXA1	BSAS, ER homeobox A1					0.0735833	Nucleus transcription regulator

HOXA2	AI324701, homeobox NM_00673	19.7	-0.131299	Nucleus	transcription regulator
HOXA5	homeo bo: homeobox NM_01910	18.2	-0.157173	Nucleus	transcription regulator
HOXA9	ABD-B, Df homeobox A9			Nucleus	transcription regulator
HOXB2	AI894218, homeobox NM_00214	31.6	-0.194786	Nucleus	transcription regulator
HOXB3	homeo bo: homeobox NM_00214	9.4	-0.142913	Nucleus	transcription regulator
HOXB4	B4, homeo homeobox B4		0.1056433	Nucleus	transcription regulator
HOXB9	homeo bo: homeobox NM_02401	21.6	-0.700233	Nucleus	transcription regulator
HOXC4	cp19, hom homeobox NM_15363	19.4	-0.038053	Nucleus	transcription regulator
HOXC6	CP25, HH homeobox C6		0.1532266	Nucleus	transcription regulator
HOXD10	AI385591, homeobox D10		-0.048183	Nucleus	transcription regulator
HOXD11	E230017H homeobox D11		-0.242786	Nucleus	transcription regulator
HOXD12	homeo bo: homeobox D12		-0.067069	Nucleus	transcription regulator
HOXD3	homeo bo: homeobox NM_00683	32.9	0.0895633	Nucleus	transcription regulator
HOXD4	6030436D homeobox D4		0.1531766	Nucleus	transcription regulator
HS6ST1	6Ost1, hef heparan s1 NM_00480	17.5	0.506190	Plasma M	enzyme
HSPG2	AI852380, heparan s1 NM_00552	19.7	0.9481366	Extracellul	enzyme
IGFALS	ACLSA, A insulin-like NM_00114	21.0	-0.304610	Extracellul	other
INPP5E	1200002L: inositol pol NM_01983	16.3	-0.080086	Cytoplasm	phosphatase
ITGA3	AA407068 integrin, al NM_00220	18.2	0.1801666	Plasma M	other
ITGB2	2E6, AI523 integrin, b1 NM_00112	18.8	-0.268663	Plasma M	transmembrane receptor
JAG2	D12Ggc2e jagged 2 NM_14513	17.9	0.2614733	Extracellul	growth factor
KCNQ1	ATFB1, A1 potassium NM_18173	17.5	-0.146573	Plasma M	ion channel
KIF7	ACLS, HL kinesin far NM_19852	12.2	-0.163450	Extracellul	other
KLF10	AI115143, Kruppel-lik NM_00563	8.5	-0.177640	Nucleus	transcription regulator
KLF2	Kruppel-lik Kruppel-lik NM_01627	21.0	-1.2508	Nucleus	transcription regulator
LFNG	AW06116: LFNG O-f NM_00104	23.5	-0.183633	Cytoplasm	enzyme
LIF	CDF, choli leukemia ii NM_00230	10.7	0.3438566	Extracellul	cytokine
LMX1B	LIM homer LIM homer NM_00117	17.5	-0.173016	Nucleus	transcription regulator
LRP5	BMND1, E low densit NM_00233	62.3	0.3459566	Plasma M	transmembrane receptor
LRRK1	AW31959: leucine-ric NM_02463	16.3	0.3609866	Cytoplasm	kinase
LTPB3	Latent trar latent trans NM_00113	18.8	0.5269566	Extracellul	other
MATN1	CMP, CRT matrilin 1, cartilage matrix protein		-0.178276	Extracellul	other
MDFI	I-MF, I-mf MyoD fami NM_00553	12.2	-0.133676	Cytoplasm	other
MEOX1	AI385561, mesenchy NM_00452	27.3	-0.310556	Nucleus	transcription regulator
MFAP2	AI893631, microfibrilli NM_00113	17.2	0.017060	Extracellul	other
MFNG	AL591946 MFNG O-f NM_00240	14.4	0.1817366	Cytoplasm	enzyme
MNT	bHLHd3, M MAX netw NM_02031	17.5	-0.238086	Nucleus	transcription regulator
MS1	m-Msi-1, M musashi R NM_00244	56.1	-0.204989	Cytoplasm	other
MYF5	B130010J: myogenic factor 5		2.3756099	Nucleus	transcription regulator
MYOG	bHLHc3, M myogenin (myogenic factor 4)		0.674790	Nucleus	transcription regulator
NAB2	AI451907, NGFI-A binding protein 2 (EGR1		-0.220293	Nucleus	transcription regulator
NACC1	2010001H nucleus accumbens associated		-0.369146	Nucleus	transcription regulator
NAGLU	alpha-N-ac N-acetylglucosaminidase, alpha		-0.258659	Cytoplasm	enzyme
NFIC	1110019L: nuclear fac NM_00553	17.9	0.1972633	Nucleus	transcription regulator
NFIX	CTF, MRS nuclear fac NM_00250	26.0	-0.629200	Nucleus	transcription regulator
NOS3	2310065A: nitric oxide NM_00113	14.4	-0.335076	Cytoplasm	enzyme
NPR2	AMDM, Ar natriuretic peptide receptor 2		0.808210	Plasma M	G-protein coupled receptor
OTX1	A730044F orthodenticle homeobox 1		-0.098090	Nucleus	transcription regulator
PAX1	hbs, huncf paired box NM_00613	17.9	0.1059333	Nucleus	transcription regulator
PAX2	FSGS7, O paired box NM_00027	21.0	0.0403599	Nucleus	transcription regulator
PAX7	HUP1, LO paired box NM_00113	14.7	0.2874033	Nucleus	transcription regulator
PAX8	paired box paired box NM_01393	20.7	-0.223699	Nucleus	transcription regulator
PITX1	BFT, CCF, paired-like NM_00263	13.5	-0.174549	Nucleus	transcription regulator
PITX2	9430085M paired-like NM_00032	22.6	0.4241599	Nucleus	transcription regulator
PKD1	mFLJ0023 polycystic NM_00023	43.9	-0.238703	Plasma M	ion channel
PLXNA1	2600013D plexin A1 NM_03224	13.8	0.472350	Plasma M	transmembrane receptor

PLXND1	6230425C plexin D1 NM_01510 11.3	0.5124633 Plasma M: transmembrane receptor
POU3F3	Brain1, BF POU class NM_00620 14.7	0.0519533 Nucleus transcription regulator
PTCH1	A230106A patched 1 NM_00100 15.0	-0.494986 Plasma M: transmembrane receptor
PTHLH	BDE2, HH parathyroid NM_19890 8.5	-0.626643 Extracellular other
PTPN2	A1325124, protein tyrosine kinase NM_00280 21.3	-0.428996 Cytoplasm phosphatase
RAI1	DOM3, Gt retinoic acid receptor NM_03060 13.5	-0.384676 Cytoplasm other
RFNG	RFNG O-fucose transferase 3-beta-1 NM_00000 18.2	0.4347433 Cytoplasm enzyme
RGMA	BC059072 repulsive cell adhesion molecule 1 NM_02020 18.2	0.1420733 Plasma M: other
RING1	DADB-10C ring finger protein 1 NM_00290 25.7	-0.135586 Nucleus transcription regulator
ROR2	BDB, BDB receptor tyrosine kinase NM_00450 16.9	-0.220513 Plasma M: kinase
SBNO2	BC019206 strawberry notch homolog 2 (Drosophila) NM_00000 18.2	-0.096030 Other transcription regulator
SHH	95300360 sonic hedgehog NM_00010 13.2	-0.137416 Extracellular peptidase
SIX1	BB138287 SIX homeobox 1 NM_00000 18.2	0.130699 Nucleus transcription regulator
SKI	231001210 SKI proto-oncogene NM_00300 31.6	0.449190 Nucleus transcription regulator
SLC39A14	BC021530 solute carrier family 39 member 14 NM_00110 12.5	0.14337 Plasma M: transporter
SLC4A2	AE2, Aep2 solute carrier family 4 (anion exchanger) member 2 NM_00000 18.2	-0.208226 Plasma M: transporter
SMAD3	AU022421 SMAD family member 3 NM_00590 15.0	0.232219 Nucleus transcription regulator
SOX9	2010306G SRY (sex determining region Y) box 9 NM_00030 8.1	-1.052923 Nucleus transcription regulator
SRC	ASV, AW2 SRC proto-oncogene NM_19820 13.5	0.194060 Cytoplasm kinase
TBX1	CAFS, CA T-box 1 NM_00590 18.2	-0.330773 Nucleus transcription regulator
TBX5	HOS, T-box 5 NM_00010 16.6	-0.201773 Nucleus transcription regulator
TCF15	BHLH-EC transcription factor 15 (basic helix-loop-helix) NM_00000 18.2	-0.222209 Nucleus transcription regulator
TCIRG1	a3, ATP6a T-cell, immunoregulatory 1 NM_00600 15.4	1.007299 Plasma M: enzyme
TFAP2A	activating transcription factor AP-2 alpha (epsilon) NM_00000 18.2	-0.126843 Nucleus transcription regulator
THRA	6430529J thyroid hormone receptor, alpha NM_00000 18.2	0.4276233 Nucleus ligand-dependent nuclear receptor
TMEM119	AW20894 transmembrane protein 119 NM_18170 12.5	0.914696 Cytoplasm other
TP73	P73, p73 tumor protein 73 NM_00110 20.4	-0.082410 Nucleus transcription regulator
TSHZ1	573040710 teashirt zinc finger protein 1 NM_00570 14.1	-0.609563 Nucleus transcription regulator
UNCX	Chx4, LOC UNC homeobox 4 NM_00100 36.7	0.1420733 Other transcription regulator
VDR	BOS 5154 vitamin D (1,25-dihydroxyvitamin D3) receptor NM_00000 18.2	0.245266 Nucleus transcription regulator
VEGFA	BOS 2146 vascular endothelial growth factor A NM_00100 3.1	0.3762433 Extracellular growth factor
WFIKKN1	C16orf12, WAP, follistatin/kazal, immunoglobulin-like domain containing 1 NM_00000 18.2	-0.091139 Cytoplasm other
WNT1	BMND16, wingless-type MMTV integration site 1 NM_00000 18.2	-0.113279 Extracellular cytokine
WNT3A	RP23-378 wingless-type MMTV integration site 3A NM_03310 13.2	0.14337 Extracellular cytokine
WNT5A	8030457G wingless-type MMTV integration site 5A NM_00330 16.6	1.783319 Extracellular cytokine
WNT9A	RP23-378 wingless-type MMTV integration site 9A NM_00330 15.7	-0.200350 Extracellular other
ZBTB16	A1467657, zinc finger protein 16 NM_00100 12.2	1.542956 Nucleus transcription regulator
ZIC5	1700049L Zic family zinc finger 5 NM_03310 12.5	0.0435033 Nucleus transcription regulator
ZNF521	B930086A zinc finger protein 521 NM_01540 6.9	0.1438333 Nucleus other