

Differentially expressed on collagen
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Symbol	Entrez Gene Name	Affymetrix	Fold Change	Location	Family
ALDH1A3	aldehyde dehydrogenase 1 family, member A3	203180_at	-5.43125168	Cytoplasm	enzyme
CD24	CD24 molecule	209772_s_at	-4.32890229	Plasma	other
HSD11B2	hydroxysteroid (11-beta) dehydrogenase 2	204130_at	-4.1099197	Membrane	enzyme
AMOTL2	angiomotin like 2	203002_at	-2.82872773	Cytoplasm	enzyme
DLX2	distal-less homeobox 2	207147_at	-2.74996362	Plasma	other
RIPK4	receptor-interacting serine-threonine kinase 4	221215_s_at	-2.56556472	Membrane	transcription regulator
PLK2	polo-like kinase 2 (Drosophila)	201939_at	-2.47054478	Nucleus	kinase
ALDH3A1	aldehyde dehydrogenase 3 family, member A1	205623_at	-2.30532989	Nucleus	kinase
TXNRD1	thioredoxin reductase 1	201266_at	-2.27936909	Cytoplasm	enzyme
CYR61	cysteine-rich, angiogenic inducer, 61	201289_at	-2.09052668	Extracellular	other
FERMT2	fermitin family homolog 2 (Drosophila)	214212_x_at	-1.87478183	Space	other
RIT1	Ras-like without CAAX 1	209882_at	-1.77586775	Cytoplasm	other
MSMB	microseminoprotein, beta-	210297_s_at	-1.72177723	Plasma	enzyme
PI3	peptidase inhibitor 3, skin-derived	203691_at	-1.68135697	Membrane	enzyme
ALDH3B1	aldehyde dehydrogenase 3 family, member B1	205640_at	-1.67376791	Extracellular	other
TRAK2	trafficking protein, kinesin binding 2	202124_s_at	-1.63677793	Space	other
BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)	203304_at	-1.55781893	Cytoplasm	other
C20ORF24	chromosome 20 open reading frame 24	217835_x_at	-1.55173225	Plasma	transporter
ALDH5A1	aldehyde dehydrogenase 5 family, member A1	203608_at	-1.55120625	Membrane	other
SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	203123_s_at	-1.53171003	Cytoplasm	enzyme
CDC42EP4	CDC42 effector protein (Rho GTPase binding) 4	214721_x_at	-1.51582586	Plasma	transporter
BRD2	bromodomain containing 2	214911_s_at	-1.4531853	Membrane	other
ERLIN2	ER lipid raft associated 2	221542_s_at	-1.44388941	Cytoplasm	other
BUD31 (includes EG:8896)	BUD31 homolog (S. cerevisiae)	205690_s_at	-1.44020721	Nucleus	transcription regulator
KPNA6	karyopherin alpha 6 (importin alpha 7)	212101_at	-1.4223162	Nucleus	transporter
EIF2B3	eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa	218488_at	-1.40234484	Nucleus	translation regulator

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ATXN10	ataxin 10	208832_at	-1.39633836	Cytoplasm	other
PHF15	PHD finger protein 15	212660_at	-1.39090664	Unknown	other
EIF2B1	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa	201632_at	-1.36476394	Cytoplasm	translation regulator
ZNF259	zinc finger protein 259	217185_s_	-1.34385725	Nucleus	other
FSTL3	folliculin-like 3 (secreted glycoprotein)	203592_s_	-1.31873589	Extracellular	other
LTBP3	latent transforming growth factor beta binding protein 3	219922_s_	-1.30575275	Space	other
VPS33A	vacuolar protein sorting 33 homolog A (S. cerevisiae)	204590_x_	-1.29538652	Cytoplasm	transporter
TERF2IP	telomeric repeat binding factor 2, interacting protein	201174_s_	-1.29187749	Nucleus	other
PIP5K3	phosphatidylinositol-3- phosphate/phosphatidylinositol 5-kinase, type III	213111_at	-1.29162373	Cytoplasm	kinase
SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	212290_at	-1.27252637	Plasma	transporter
WFS1	Wolfram syndrome 1 (wolframin)	202908_at	-1.26906358	Membrane	enzyme
TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)	204872_at	-1.26469487	Cytoplasm	transcription regulator
MPRIP	myosin phosphatase Rho interacting protein	212197_x_	-1.24962601	Nucleus	other
TOLLIP	toll interacting protein	217930_s_	-1.22691924	Cytoplasm	other
POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	210573_s_	-1.2225995	Cytoplasm	enzyme
C9ORF3	chromosome 9 open reading frame 3	212848_s_	-1.21805353	Nucleus	peptidase
ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A	at	-1.19636753	Cytoplasm	other
RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	212747_at	1.233084894	Cytoplasm	other
DMBT1	deleted in malignant brain tumors 1	204543_at	1.238555327	Plasma	transmembr ane receptor
SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	217691_x_	1.241242254	Membrane	transporter
KIAA1199	KIAA1199	212942_s_	1.263300425	Unknown	other
NAT6	N-acetyltransferase 6 (GCN5-related)	210874_s_	1.265713615	Cytoplasm	other
IGFBP2	insulin-like growth factor binding protein 2, 36kDa	at	1.278487473	Extracellular	other
ADAM8	ADAM metalloproteinase domain 8	202718_at	1.288221144	Space	peptidase
ABR	active BCR-related gene	205180_s_	1.291684857	Plasma	other
ECSIT	ECSIT homolog (Drosophila)	212895_s_	1.299803382	Membrane	transcription regulator
		218225_at		Nucleus	

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ECOP	EGFR-coamplified and overexpressed protein	208091_s_at	1.322523682	Nucleus	other
SLC37A4	solute carrier family 37 (glucose-6-phosphate transporter), member 4	217289_s_at	1.376175271	Cytoplasm	transporter
ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	201043_s_at	1.409107453	Nucleus	other
RAC3	ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)	206103_at	1.44296971	Cytoplasm	enzyme
B3GNT1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	203188_at	1.460637117	Cytoplasm	enzyme
EPHA3	EPH receptor A3	206070_s_at	1.470752251	Plasma	
TENC1	tensin like C1 domain containing phosphatase (tensin 2)			Membrane	kinase
STC2	stanniocalcin 2	212494_at	1.485724074	Plasma	other
P4HA2	prolyl 4-hydroxylase, alpha polypeptide II	203439_s_at	1.490425808	Extracellular	
KDEL3	KDEL (Lys-Asp-Glu-Leu) endoplasmic	202733_at	1.504593228	Space	other
CIB1	reticulum protein retention receptor 3	204017_at	1.52428352	Cytoplasm	transporter
NFIB	calcium and integrin binding 1 (calmyrin)	201953_at	1.559198164	Nucleus	other
PKP2	nuclear factor I/B	209289_at	1.575191227	Nucleus	transcription regulator
PPP1R13L	plakophilin 2	207717_s_at	1.580201591	Plasma	
RLF	protein phosphatase 1, regulatory (inhibitor)	218849_s_at	1.591154408	Membrane	other
PLOD1	subunit 13 like			Nucleus	transcription regulator
ITGB5	rearranged L-myc fusion	204243_at	1.649532526	Nucleus	transcription regulator
TSPAN4	procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1	200827_at	1.663176552	Cytoplasm	enzyme
NCAPD2	integrin, beta 5	201125_s_at	1.688160654	Plasma	
RRAS	tetraspanin 4	209264_s_at	1.699349028	Membrane	other
SMTN	non-SMC condensin I complex, subunit D2	201774_s_at	1.70549251	Nucleus	other
LGALS7	related RAS viral (r-ras) oncogene homolog	212647_at	1.756246341	Cytoplasm	enzyme
ADAM12	smoothelin	207390_s_at	1.781277947	Extracellular	
EGFR	lectin, galactoside-binding, soluble, 7	206400_at	1.792159574	Space	other
AXL	ADAM metalloproteinase domain 12	202952_s_at	1.845508867	Plasma	
IGFBP6	epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	201983_s_at	1.869975921	Membrane	peptidase
	AXL receptor tyrosine kinase	202686_s_at	1.925814869	Plasma	
	insulin-like growth factor binding protein 6	203851_at	2.036518664	Membrane	kinase
				Extracellular	
				Space	other

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CARHSP1	calcium regulated heat stable protein 1, 24kDa	218384_at	2.066136852	Cytoplasm	other
ERF	Ets2 repressor factor	203643_at	2.088396999	Nucleus	transcription
TGFB1	transforming growth factor, beta 1	203085_s_		Extracellular	regulator
SPAG4	sperm associated antigen 4	at	2.397413656	Space	growth
		219888_at	2.578189024	Cytoplasm	factor
		207543_s_			other
P4HA1	prolyl 4-hydroxylase, alpha polypeptide I	at	2.672517765	Cytoplasm	enzyme
					transcription
MXI1	MAX interactor 1	202364_at	2.686706013	Nucleus	regulator
	procollagen-lysine, 2-oxoglutarate 5-	202620_s_			
PLOD2	dioxygenase 2	at	2.703934291	Cytoplasm	enzyme
		201163_s_		Extracellular	
IGFBP7	insulin-like growth factor binding protein 7	at	3.095274939	Space	transporter
				Plasma	
CA12	carbonic anhydrase XII	203963_at	3.376692262	Membrane	enzyme
		202998_s_		Extracellular	
LOXL2	lysyl oxidase-like 2	at	4.341355328	Space	enzyme
		215446_s_		Extracellular	
LOX	lysyl oxidase	at	4.682900868	Space	enzyme
Aldehyde					
dehydrogenas					
e (NAD)				Unknown	group
Aldehyde					
dehydrogenas					
e [NAD(P)]				Unknown	group
ALDH				Unknown	group
Collagen(s)				Unknown	complex
Creatine					
Kinase				Unknown	group
eIF				Unknown	complex
Igfbp				Unknown	group
Integrin				Unknown	complex
Metalloproteas					
e				Unknown	group
NFkB					
(complex)				Unknown	complex
Nuclear factor					
1				Unknown	group
Rac				Unknown	group
Rap1				Unknown	group
Ras homolog				Unknown	group
Rock				Unknown	group
Sos				Unknown	group