

Gene	Predicted association	Shared Re	Obs/Exp	Score	Lit_Str	Verified?
ELTD1	Esam1	3	29.1	84	0	
ELTD1	endothelial phenotype	4	17.8	69	0	yes
ELTD1	stromal phenotype	3	24.0	69	0	
ELTD1	Pl1	4	16.8	65	0	
ELTD1	TIE-2 Receptor	3	20.4	57	0	
ELTD1	ICAM-2	4	14.1	55	0	
ELTD1	CD133	5	11.0	54	0	
ELTD1	intermedin	3	16.4	48	0	
ELTD1	VEGF-A	5	9.2	45	0	
ELTD1	VEGFR-3	4	11.3	44	0	
ELTD1	TIE1	3	13.4	39	0	
ELTD1	VEGF-C	4	9.7	38	0	
ELTD1	ANG-2	4	9.3	36	0	
ELTD1	endothelial cell differentiation	3	12.6	36	0	
ELTD1	blood vessel development	3	12.8	35	0	yes
ELTD1	NANOG	4	8.9	35	0	
ELTD1	CD32	4	9.2	34	0	
ELTD1	claudin-5	3	11.1	33	0	
ELTD1	ANG-1	4	8.4	33	0	
ELTD1	sca-1	3	11.3	32	0	
ELTD1	CD34	6	5.3	31	0	
ELTD1	angiogenic phenotype	3	11.1	30	0	yes
ELTD1	PECAM-1	4	7.4	29	0	
ELTD1	endothelial cell migration	4	7.4	28	0	
ELTD1	OCT4	4	6.3	25	0	
ELTD1	endostatin	4	6.5	24	0	
ELTD1	Angiopoietin	3	8.3	24	0	
ELTD1	LFA-1	5	5.1	24	0	
ELTD1	VEGF	8	3.0	22	0	
ELTD1	Lectin	7	3.3	22	0	
ELTD1	growth factor	10	2.2	21	0	
ELTD1	cell proliferation	10	2.2	21	0	
ELTD1	embryonic stem cells	6	3.6	21	0	
ELTD1	C1Q	4	5.5	21	0	
ELTD1	CD14	5	4.5	21	0	
ELTD1	proinflammatory cytokines	8	2.7	21	0	
ELTD1	Angiogenesis	8	2.8	21	0	yes
ELTD1	IL-1	8	2.7	20	0	
ELTD1	cell surface	9	2.3	20	0	yes
ELTD1	BFGF	6	3.5	20	0	
ELTD1	CD36	4	4.8	19	0	
ELTD1	CD44	5	4.1	19	0	
ELTD1	CD18	4	4.9	19	0	
ELTD1	Vcam-1	5	4.0	18	0	
ELTD1	paracrine	6	3.2	18	0	
ELTD1	innate immunity	6	3.3	18	0	
ELTD1	ICAM-1	6	3.2	18	0	
ELTD1	HGF	5	3.9	18	0	
ELTD1	cell differentiation	7	2.7	18	0	
ELTD1	p-selectin	4	4.3	17	0	
ELTD1	endothelin-1	5	3.5	17	0	

ELTD1	dendritic cell	6	2.7	16	0
ELTD1	Adipocytes	7	2.5	16	0
ELTD1	CXCR4	4	4.0	16	0
ELTD1	glial fibrillary acidic protein	5	3.3	16	0
ELTD1	signal transduction	8	2.1	16	0
ELTD1	homeostasis	8	2.1	16	0
ELTD1	IL-4	6	2.8	16	0
ELTD1	IL-8	6	2.8	16	0
ELTD1	astrocytes	6	2.6	15	0
ELTD1	Multiple Sclerosis	6	2.7	15	0
ELTD1	IFN-gamma	7	2.3	15	0
ELTD1	IL-10	6	2.7	15	0
ELTD1	inflammatory response	7	2.3	15	0
ELTD1	lysozyme	5	3.1	14	0
ELTD1	umbilical vein	5	2.9	14	0
ELTD1	transcriptional regulation	7	2.1	14	0
ELTD1	pro-inflammatory	6	2.4	14	0
ELTD1	MCP-1	5	2.9	14	0
ELTD1	cell adhesion	6	2.4	14	0
ELTD1	DNA binding	7	2.1	14	0
ELTD1	extracellular domain	5	3.0	14	1.3
ELTD1	autocrine	6	2.6	13	0
ELTD1	hematopoietic stem cell	5	2.8	13	0
ELTD1	Melanoma	6	2.2	13	0
ELTD1	adhesion molecules	6	2.5	13	0
ELTD1	Alzheimer`s disease	6	2.1	12	0
ELTD1	protein kinase C	6	2.1	11	0
ELTD1	mammary tumor	5	2.4	11	0
ELTD1	TGF-beta1	5	2.3	11	0
ELTD1	fibronectin	5	2.2	10	0
ELTD1	tumour necrosis	5	2.1	10	0
ELTD1	Glioma	5	2.3	10	0 yes
ELTD1	embryonic development	5	2.0	10	0
ELTD1	glycosylation	5	2.2	10	0
ELTD1	stress-induced	5	2.1	10	0

Header legend:

shared rels: # of genes (out of 20 possible) consistently and specifically co-expressed with the target gene that are associated with this entity

Obs/Exp: Statistical enrichment ratio - the # of observed commonalities to the # expected by chance alone, given a 20 identically connected genes within a random network of the same size

Score: A priority score to rank the relative importance of the commonalities found

Lit Str: If the predicted association is also a published association (i.e., apparently correct), Lit Str will be > 0. The higher this #, the more times the two terms are mentioned together in MEDLINE.

blue = Algorithm-predicted relationships that correspond to associations published in MEDLINE

red = associations tested experimentally in this study

Summary: ELTD1 is predicted to be a cell-surface-based factor involved in angiogenesis of neural blood vessels. Only a subset of all predicted associations could be tested in this study. More work needs to be done to confirm the predicted associations given in this table.