

Supplemental Table IV: Expression values and significance of individual genes for LTEM pathway in Figure 5.

KEGG Symbol	Gene Symbol	Entrez Gene ID	Gene Name	Control Signal	AAA Signal	P-value	Significant FDR
Actin	ACTB	60	actin, beta	14.75	14.46	2.04e-01	
Actin	ACTC	70	actin, alpha, cardiac muscle	11.04	7.94	5.57e-11	5.40e-09
Actin	ACTG1	71	actin, gamma 1	12.88	12.71	4.59e-01	
a-actinin	ACTN1	87	actinin, alpha 1	12.18	10.96	8.30e-07	1.80e-05
a-actinin	ACTN2	88	actinin, alpha 2	4.24	3.50	1.24e-01	
a-actinin	ACTN3	89	actinin, alpha 3	4.24	4.44	6.03e-01	
a-actinin	ACTN4	81	actinin, alpha 4	10.95	9.94	3.99e-04	2.98e-03
RhoGAP	ARHGAP5	394	Rho GTPase activating protein 5	4.16	4.16	9.98e-01	
p130Cas	BCAR1	9564	breast cancer anti-estrogen resistance 1	7.23	6.39	1.90e-01	
CD99	CD99	4267	CD99 antigen	11.50	11.21	2.08e-01	
Cdc42	CDC42	998	cell division cycle 42 (GTP binding protein, 25kDa)	8.99	9.22	3.43e-01	
CDH5	CDH5	1003	cadherin 5, type 2, VE-cadherin (vascular epithelium)	7.84	7.44	2.24e-01	
CAMs	CLDN11*	5010	claudin 11 (oligodendrocyte transmembrane protein)	8.76	8.03	1.25e-01	
CAMs	CLDN14*	23562	claudin 14	8.67	8.35	1.55e-01	
CAMs	CLDN15*	24146	claudin 15	7.62	7.32	4.68e-01	
CAMs	CLDN16*	10686	claudin 16	4.06	4.28	5.83e-01	
CAMs	CLDN17*	26285	claudin 17	4.47	4.64	6.24e-01	
CAMs	CLDN18*	51208	claudin 18	5.32	4.82	2.41e-01	
CAMs	CLDN19*	149461	claudin 19	4.63	4.60	9.35e-01	
CAMs	CLDN22*	53842	claudin 22	4.42	4.57	6.62e-01	
CAMs	CLDN23*	137075	claudin 23	7.29	7.84	1.59e-01	
CAMs	CLDN3*	1365	claudin 3	4.73	4.86	7.22e-01	
CAMs	CLDN4*	1364	claudin 4	4.81	4.84	9.04e-01	
CAMs	CLDN7*	1366	claudin 7	5.17	5.37	6.52e-01	
a-Catenin	CTNNA1	1495	catenin (cadherin-associated protein), alpha 1, 102kDa	9.37	8.46	1.86e-02	
a-Catenin	CTNNA2	1496	catenin (cadherin-associated protein), alpha 2	4.32	4.54	5.46e-01	
a-Catenin	CTNNA3	29119	catenin (cadherin-associated protein), alpha 3	4.51	4.07	2.72e-01	
b-Catenin	CTNNB1	1499	catenin (cadherin-associated protein), beta 1, 88kDa	7.49	7.75	3.41e-01	
p120ctn	CTNND1	1500	catenin (cadherin-associated protein), delta 1	8.52	7.96	2.22e-02	
SDF-1	CXCL12	6387	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	11.67	11.62	8.87e-01	
SDF-1	CXCL13	10563	chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant)	4.47	8.36	4.33e-02	
SDF-1	CXCL14	9547	chemokine (C-X-C motif) ligand 14	10.72	11.23	5.12e-01	
SDF-1	CXCL16	58191	chemokine (C-X-C motif) ligand 16	9.65	11.42	8.81e-04	5.74e-03
CXCR4	CXCR4	7852	chemokine (C-X-C motif) receptor 4	10.63	12.32	2.69e-06	4.84e-05
p22phax	CYBA	1535	cytochrome b-245, alpha polypeptide	9.39	11.78	1.77e-08	7.07e-07
Nox	CYBB	1536	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	7.51	9.52	1.53e-07	4.36e-06

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JAM1	F11R	50848	F11 receptor	6.58	8.12	1.21e-05	1.71e-04
Gi	GNAI1	2770	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1	6.49	5.17	5.95e-06	9.29e-05
Gi	GNAI2	2771	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	11.59	11.92	2.23e-01	
Gi	GNAI3	2773	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	8.41	8.55	5.54e-01	
RhoGAP	GRLF1	2909	glucocorticoid receptor DNA binding factor 1	7.56	7.60	8.67e-01	
ICAM1	ICAM1	3383	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	5.45	6.58	9.60e-04	6.14e-03
SDF-1	IL8	3576	interleukin 8	8.72	12.23	4.35e-03	2.03e-02
ITGA4	ITGA4	3676	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	3.48	5.54	6.43e-04	4.45e-03
ITGAL	ITGAL	3683	integrin, alpha L (antigen CD11A (p180))	5.31	7.61	1.20e-08	4.96e-07
ITGAM	ITGAM	3684	integrin, alpha M (complement component 3 receptor 3 subunit)	7.42	9.40	3.75e-03	1.81e-02
ITGB1	ITGB1	3688	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	10.89	9.50	1.60e-06	3.12e-05
ITGB2	ITGB2	3689	integrin, beta 2 (antigen CD18 (p95))	8.30	10.34	3.06e-07	7.67e-06
TEC	ITK	3702	IL2-inducible T-cell kinase	5.11	8.33	2.80e-02	
JAM2	JAM2	58494	junctional adhesion molecule 2	7.49	6.56	5.68e-03	2.47e-02
JAM3	JAM3	83700	junctional adhesion molecule 3	11.38	9.28	1.20e-13	2.13e-11
p38	MAPK11	5600	mitogen-activated protein kinase 11	5.14	5.18	9.47e-01	
p38	MAPK12	6300	mitogen-activated protein kinase 12	3.99	4.03	9.54e-01	
p38	MAPK13	5603	mitogen-activated protein kinase 13	5.23	8.26	1.46e-06	2.88e-05
p38	MAPK14	1432	mitogen-activated protein kinase 14	5.52	5.19	2.39e-01	
AF-6	MLLT4	4301	myeloid/lymphoid or mixed-lineage leukemia translocated to, 4	4.65	4.41	5.77e-01	
MMPs	MMP2	4313	matrix metalloproteinase 2	10.65	9.85	1.44e-01	
MMPs	MMP9	4318	matrix metalloproteinase 9	7.62	12.31	1.31e-02	4.68e-02
ERM	MSN	4478	moesin	10.84	10.80	8.66e-01	
MLC	MYL6	4637	myosin, light polypeptide 6, alkali, smooth muscle and non-muscle	12.37	11.79	2.08e-02	
p47phax	NCF1	4687	neutrophil cytosolic factor 1	8.32	11.46	4.66e-06	7.53e-05
p67phax	NCF2	4688	neutrophil cytosolic factor 2	7.51	10.21	1.74e-03	9.77e-03
p40phax	NCF4	4689	neutrophil cytosolic factor 4, 40kDa	8.69	10.76	5.36e-08	1.77e-06
Nox	NOX1	27035	NADPH oxidase 1	5.16	5.44	4.90e-01	
Nox	NOX3	50508	NADPH oxidase 3	4.54	4.31	5.25e-01	
CAMs	OCLN*	4950	occludin	4.50	4.50	9.93e-01	
PECAM1	PECAM1	5175	platelet/endothelial cell adhesion molecule (CD31 antigen)	11.17	11.59	1.21e-01	
SDF-1	PF4	5196	platelet factor 4 (chemokine (C-X-C motif) ligand 4)	5.15	8.38	5.26e-02	
PI3K	PIK3CA	5290	phosphoinositide-3-kinase, catalytic, alpha polypeptide	7.56	7.06	4.94e-02	
PI3K	PIK3CB	5291	phosphoinositide-3-kinase, catalytic, beta polypeptide	6.03	6.89	5.93e-02	
PI3K	PIK3CD	5293	phosphoinositide-3-kinase, catalytic, delta polypeptide	7.83	10.00	2.14e-08	8.41e-07
PI3K	PIK3CG	5294	phosphoinositide-3-kinase, catalytic, gamma polypeptide	6.19	8.47	5.03e-05	5.53e-04
PI3K	PIK3R1	5295	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)	10.23	9.38	1.13e-03	6.99e-03

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PI3K	PIK3R2	5296	phosphoinositide-3-kinase, regulatory subunit 2 (p85 beta)	5.56	5.58	9.63e-01	
PI3K	PIK3R3	8503	phosphoinositide-3-kinase, regulatory subunit 3 (p55, gamma)	5.39	5.06	4.29e-01	
PI3K	PIK3R5	23533	phosphoinositide-3-kinase, regulatory subunit 5, p101	4.32	5.07	1.08e-01	
PLCg	PLCG1	5335	phospholipase C, gamma 1	8.98	8.18	7.96e-03	3.21e-02
PLCg	PLCG2	5336	phospholipase C, gamma 2 (phosphatidylinositol-specific)	6.79	8.51	2.53e-04	2.07e-03
SDF-1	PPBP	5473	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	5.89	9.70	7.01e-02	
PKC	PRKCA	5578	protein kinase C, alpha	5.31	5.09	5.42e-01	
PKC	PRKCB1	5579	protein kinase C, beta 1	7.46	10.20	1.48e-05	2.01e-04
PKC	PRKCG	5582	protein kinase C, gamma	4.57	4.57	9.94e-01	
FAK	PTK2	5747	PTK2 protein tyrosine kinase 2	9.95	8.47	2.08e-08	8.20e-07
Pyk2	PTK2B	2185	PTK2B protein tyrosine kinase 2 beta	6.96	8.48	5.32e-06	8.48e-05
SHP-2	PTPN11	5781	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)	8.73	7.96	6.95e-04	4.75e-03
Paxillin	PXN	5829	paxillin	6.77	7.30	1.62e-01	
Rac1	RAC1	5879	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	7.28	5.96	4.78e-05	5.28e-04
Rac2	RAC2	5880	ras-related C3 botulinum toxin substrate 2	7.21	9.69	4.96e-07	1.16e-05
Rap1	RAP1A	5906	RAP1A, member of RAS oncogene family	9.95	9.92	9.13e-01	
Rap1	RAP1B	5908	RAP1B, member of RAS oncogene family	10.44	10.56	6.77e-01	
EPAC	RAPGEF3	10411	Rap guanine nucleotide exchange factor (GEF) 3	7.67	6.51	1.91e-02	
EPAC	RAPGEF4	11069	Rap guanine nucleotide exchange factor (GEF) 4	4.74	4.62	8.29e-01	
RAPL	RASSF5	83593	Ras association (RalGDS/AF-6) domain family 5	4.83	5.64	1.70e-02	
RhoA	RHOA	387	ras homolog gene family, member A	11.75	11.81	8.18e-01	
RhoH	RHOH	399	ras homolog gene family, member H	5.61	8.30	5.26e-03	2.32e-02
ROCK	ROCK1	6093	Rho-associated, coiled-coil containing protein kinase 1	7.38	5.19	1.70e-03	9.61e-03
ROCK	ROCK2	9475	Rho-associated, coiled-coil containing protein kinase 2	9.23	8.02	1.89e-07	5.17e-06
SPA-1	SIPA1	6494	signal-induced proliferation-associated gene 1	6.67	8.03	1.87e-04	1.61e-03
Thy1	THY1	7070	Thy-1 cell surface antigen	8.30	9.59	2.06e-01	
TEC	TXK	7294	TXK tyrosine kinase	3.25	5.28	7.78e-02	
VASP	VASP	7408	vasodilator-stimulated phosphoprotein	11.96	12.70	2.11e-02	
Vav	VAV1	7409	vav 1 oncogene	5.54	8.09	8.86e-09	3.86e-07
Vav	VAV2	7410	vav 2 oncogene	4.44	4.44	9.97e-01	
Vav	VAV3	10451	vav 3 oncogene	5.60	7.53	1.57e-07	4.45e-06
VCAM1	VCAM1	7412	vascular cell adhesion molecule 1	10.64	10.76	8.04e-01	
Vinculin	VCL	7414	vinculin	11.07	9.23	2.19e-12	2.97e-10
ERM	VIL2	7430	villin 2 (ezrin)	8.94	10.66	1.30e-04	1.21e-03

* Excluded from Figure 5 to save space.