

**Table S1**

Details of LAMP expression constructs

Protein <sup>a</sup>	Domain <sup>b</sup>	GenBank accession	Construct <sup>c</sup>	PCR primer <sup>d</sup>	Secreted protein detected	Stable cell line
btLAMP2	lum.	NP_001029742	nat. SP, 1-368	826, 812	yes	
btLAMP2	lum.	NP_001029742	Ig SP, 29-368	809, 812	no	
btLAMP2	prox.	NP_001029742	Ig SP, 217-368	811, 812	no	
hLAMP1	dist.	AAH21288	Ig SP, 29-195	789, 790	no	
hLAMP1	lum.	AAH21288	Ig SP, 29-381	789, 792	yes	
hLAMP1	prox.	AAH21288	Ig SP, 218-381	791, 792	yes	
hLAMP1	dist.	AAH21288	nat. SP, 1-195	821, 790	no	
hLAMP1	lum.	AAH21288	nat. SP, 1-381	821, 792	no	
hLAMP2	lum.	AAH02965	nat. SP, 1-371	827, 816	yes	
hLAMP2	dist.	NP_002285	Ig SP, 26-193	813, 814	yes	
hLAMP2	dist.	NP_002285	nat. SP, 1-193	827, 814	yes	
hLAMP2	lum.	AAH02965	Ig SP, 26-371	813, 816	no	yes
hLAMP2	prox.	AAH02965	Ig SP, 220-371	815, 816	no	
hLAMP3	dist.	AAH32940	Ig SP, 28-210	817, 818	no	
hLAMP3	prox.	AAH32940	Ig SP, 222-381	819, 820	yes	yes
hLAMP3	lum.	AAH32940	nat. SP, 1-210	817, 820	no	

mLAMP1	prox.	NP_034814	Ig SP, 209-370	795, 796	yes	
mLAMP1	dist.	NP_034814	Ig SP, 25-189	793, 794	yes	
mLAMP1	lum.	NP_034814	Ig SP, 25-370	793, 796	yes	
mLAMP1	dist.	NP_034814	nat. SP, 1-189	822, 794	yes	
mLAMP1	lum.	NP_034814	nat. SP, 1-370	822, 796	yes	
mLAMP2	lum.	NP_001017959	Ig SP, 26-376	801, 804	no	
mLAMP2	dist.	NP_001017959	Ig SP, 26-189	801, 802	yes	yes
mLAMP2	prox.	NP_001017959	Ig SP, 224-376	803, 804	no	
mLAMP2	lum.	NP_001017959	nat. SP, 1-376	824, 804	yes	yes
rLAMP2	dist.	AAH61990	Ig SP, 27-189	805, 806	yes	yes
rLAMP2	dist.	AAH61990	nat. SP, 1-189	825, 806	yes	
rLAMP2	lum.	AAH61990	Ig SP, 27-372	805, 808	yes	
rLAMP2	prox.	AAH61990	Ig SP, 220-372	807, 808	no	
xlLAMP1	dist.	AAH77933	Ig SP, 28-196	797, 798	no	
xlLAMP1	prox.	AAH77933	Ig SP, 220-381	799, 800	no	
xlLAMP1	dist.	AAH77933	nat. SP, 1-196	823, 798	yes	
xlLAMP1	lum.	AAH77933	nat. SP, 1-381	797, 800	yes	

<sup>a</sup>prefixes: bt=bos taurus, h=human, m=mouse, xl=xenopus laevis, r=rat.

<sup>b</sup>lum.=full luminal domain, prox./dist.=the half proximal/distal to the membrane.

<sup>c</sup>Ig SP=immune globulin signal peptide of SwissProt HVM06\_MOUSE, nat. SP=native signal peptide.

<sup>d</sup>PCR primer sequences are listed in Table S2.