

Supplementary Material

Accession: ENSFMAP00000007215 **Score:** 73.41
Database: lamprey **MW [kDa]:** 17.10
Seq. Coverage [%]: 11.10 % **pl:** 10.31
No. of Peptides: 2

10	20	30	40	50	60	70	80	90	100	110	120
MSRVASLSLL	LCGLYCCCC	AALPETRWRP	MLGAPTAIQP	TDPGLHTAAA	EATRRFNSSL	NSRTVYRLDR	VTKATRIQVS	GLKYIFEADL	KSTECLKSEE	RVAEDCNFHD	DGVATVFKCR
130	140	150	160								
FEVWTIPWRK	QTKVLSQSCQ	QNNPIKPSTM	PNA								

Cmpd.	No. of Cmps.	m/z meas.	Δ m/z [ppm]	z	Rt [min]	Score	P	Range	Sequence	Modification
1168	2	499.7650	3.48	2	33.4	30.6	0	84-91	KYIFEADLK.S	
2203	3	617.3259	2.48	2	41.6	42.9	0	121-129	RFEVWTIPWRK	



Detailed Protein Report

Project Info

Name: libowen **Date:** April 16, 2014

Sample Info & Protocols

Date: January 26, 2015

Name: 20150125B5

Search Result Info

Search Result	Location	Search Engine	Database	Ident. Compounds
Impact_PH_130411_Mascot_2015-01-26 06:17:31	/libowen/20150125B5/ProteinAnalysisResults.mgf	Mascot, 2.4.0	lamprey, lamprey_20130124.fasta	109/3589

Figure S1. The identification of a cystatin F homologue from the buccal glands of feeding *L. morii*.

Project Info
Name: NANO-U3000 **Date:** April 17, 2018
Sample Info & Protocols
Name: 201807152S **Date:** July 5, 2018
Search Result Info
Search Result **Location** **Search Engine** **Database** **Ident. Compound**
 Impact_PH_130411_Mascot_2018-07-19 06:24:16 /NANO-U3000/201807152S/20180712B8_RB8_01_2183.mgf Mascot, 2.4.0 LIP, LIP_01.fasta 7/6635

Protein 1: >CystatinF
Accession: CystatinF **Score:** 231.98
Database: LIP **MW [kDa]:** 17.10
Seq. Coverage [%]: 46.70 % **pl:** 9.77
No. of Peptides: 6
Modification(s): Carboxymethyl

Cmpd.	No. of Cmps.	m/z meas.	Δ m/z [ppm]	z	Rt [min]	Score	P	Range	Sequence	Modification
2113	4	504.2650	-4.19	2	24.9	46.6	0	54-62	R.LFNSGLNSR.T	
2633	3	862.4787	-7.37	2	29.8	59.3	1	76-90	R.QM/SGLYFEADLK.S	
2319	1	962.9243	1.62	2	26.8	18.4	0	101-117	R.VAEDCNFHDG/VATVFKC	Carboxymethyl: 5
2916	13	617.3160	-13.62	2	32.2	46.8	0	120-128	R.FEVWTIPWRK	
2633	5	681.3698	-3.09	2	29.6	32.3	1	120-129	R.FEVWTIPWRK.Q	
2223	7	1108.5174	-2.14	2	25.9	28.6	0	133-152	K.VLSQSGCEGNPKPSTMPNA.-	Carboxymethyl: 6

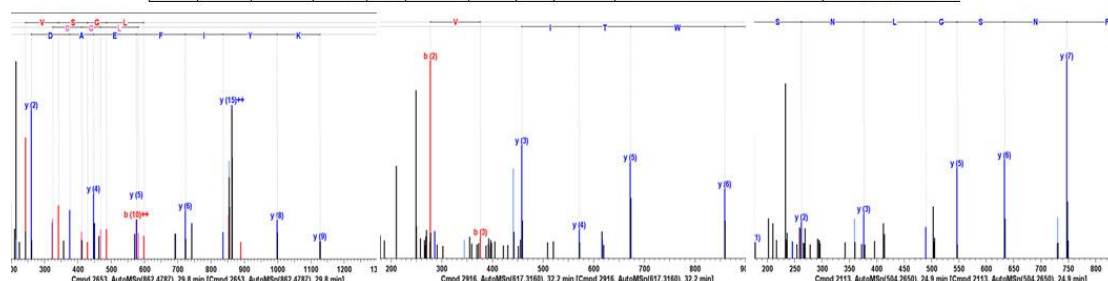


Figure S2. The expressed rLm-cystatin F was identified by mass spectrometry.

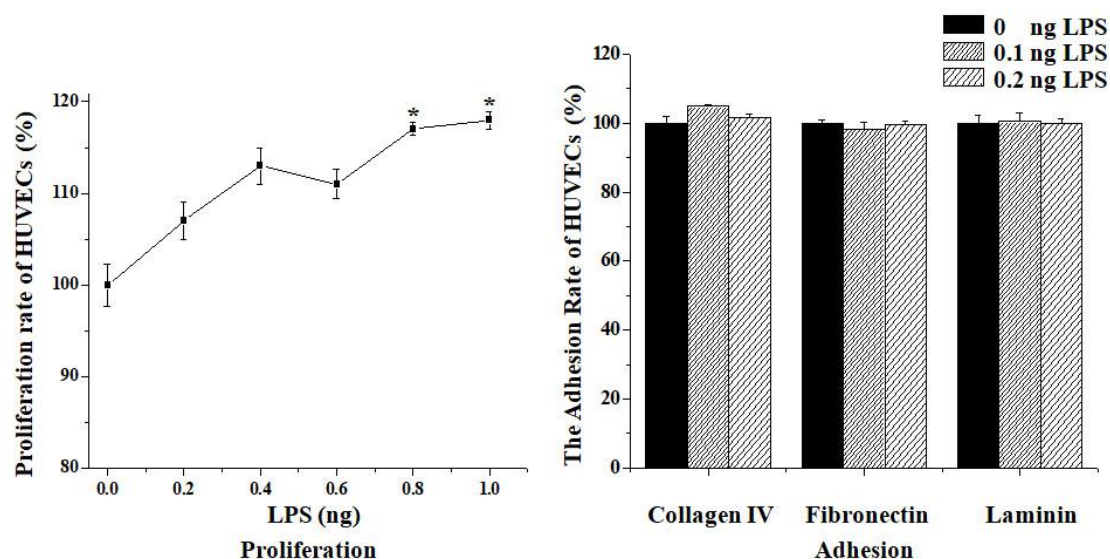


Figure S3. LPS did not inhibit the proliferation and adhesion rate of HUVECs. Relative to the PBS group, * $p < 0.05$.

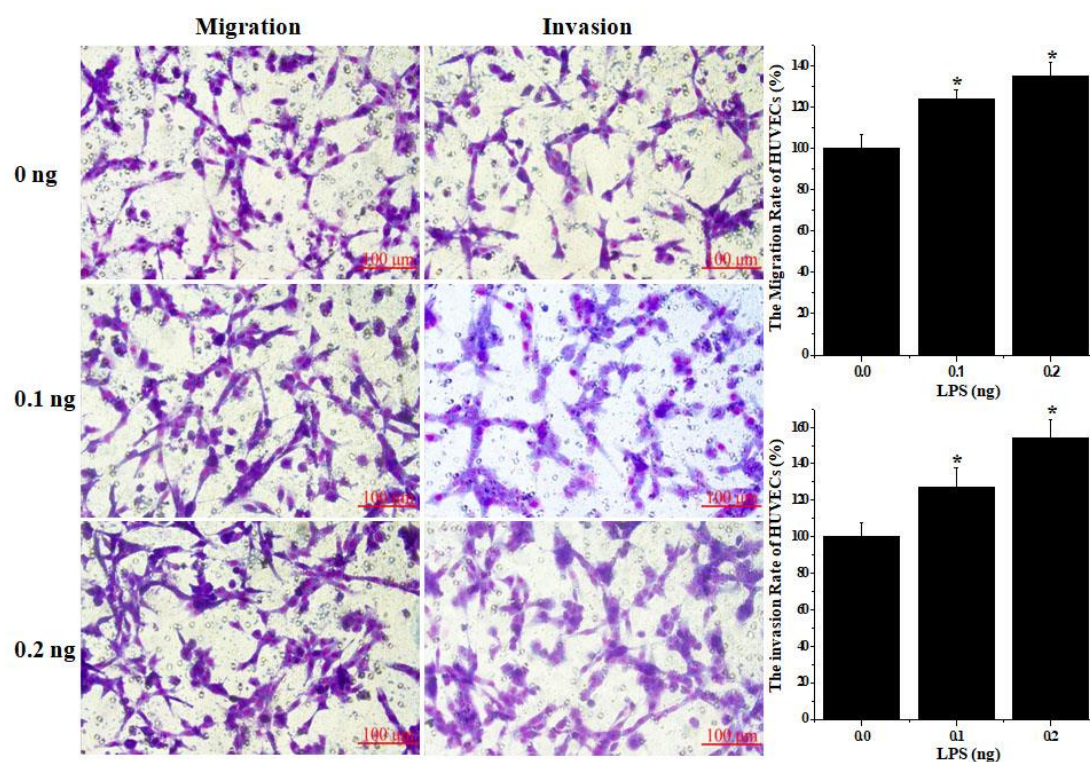


Figure S4. LPS did not inhibit the migration and invasion rate of HUVECs. Relative to the PBS group, * $p < 0.05$.

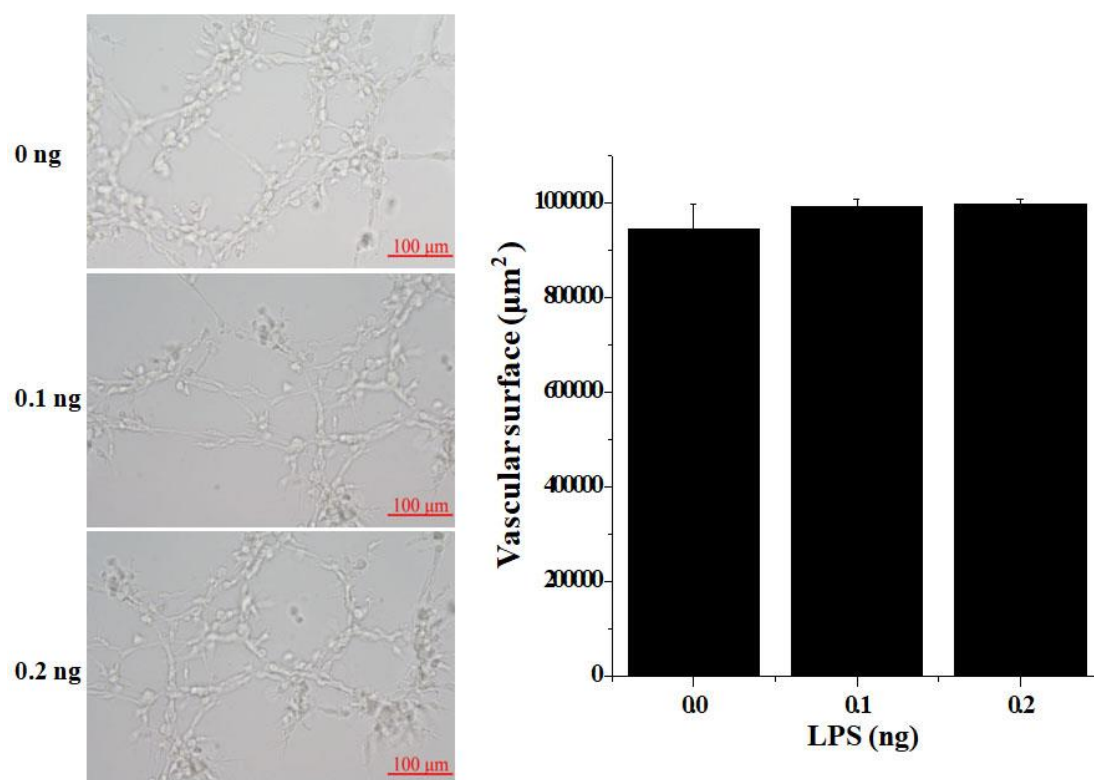


Figure S5. LPS did not affect the tube formation of HUVECs *in vitro*.

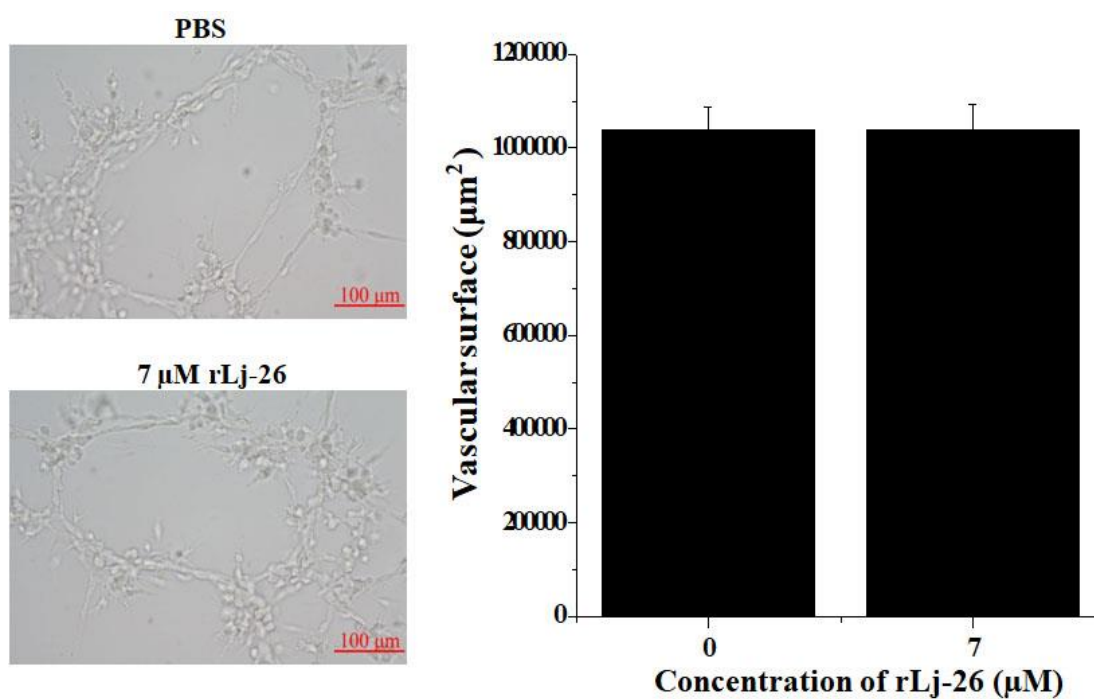


Figure S6. rLj-26 did not inhibit tube formation of HUVECs *in vitro*.

Table S1. The websites and softwares were used to analyze the amino acid sequence and bioinformatic information of Lm-cystatin F.

Predictions	Websites and softwares
ORF	http://www.ncbi.nlm.nih.gov/gorf/gorf.html
Physicochemical property	http://web.expasy.org/protparam/
Signal peptide	http://www.cbs.dtu.dk/services/SignalP/
Functional domains	http://smart.embl-heidelberg.de/
Three dimensional structure	http://swissmodel.expasy.org and PyMOL software