

Specifications:

Gene:	<i>h</i> LAMP2
Accession:	NP_054701
Insert size:	1246bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

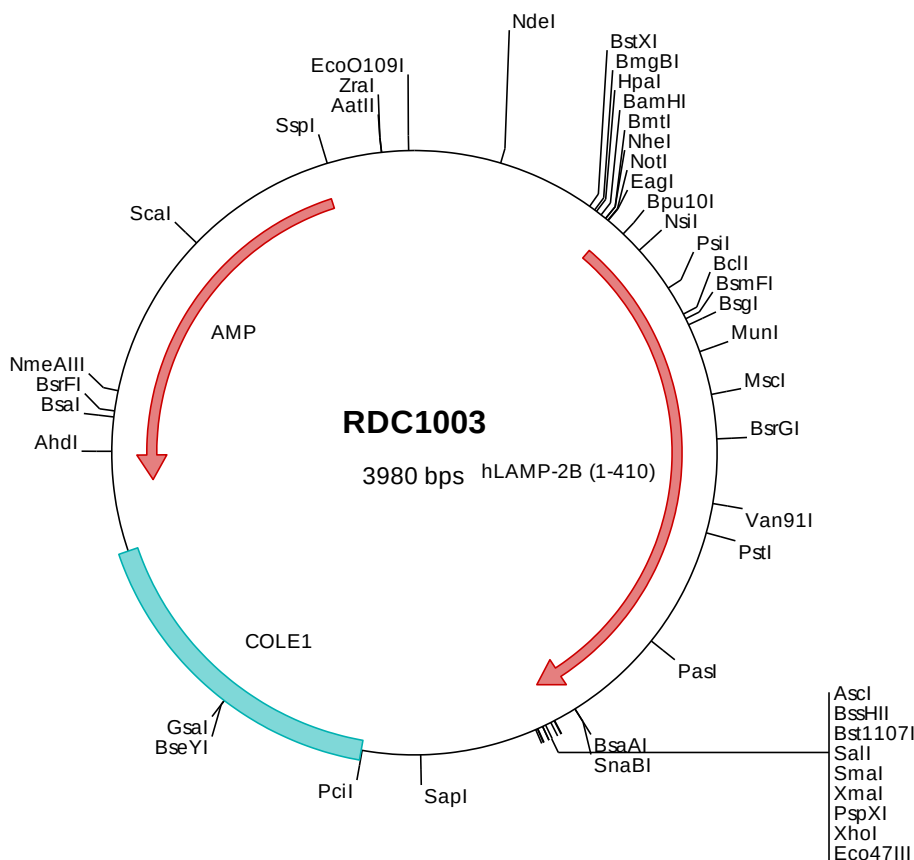
*h*LAMP-2B/CD107b cDNA Plasmid

LAMP2 lysosomal-associated membrane protein 2 [*Homo sapiens* (human)]

Also known as: LAMPB; CD107b; LAMP-2; LGP110

Summary:

LAMP2 is a transmembrane glycoprotein that is a major component of lysosomal membranes. It may function in the protection, maintenance, and adhesion of the lysosome. In cytotoxic T cells and mast cells, LAMP2 is expressed in the membranes of intracellular granules that contain effector molecules such as perforin, granzymes, eicosanoids, and histamine. When on the cell surface, LAMP2 may present carbohydrates to selectins. LAMP2 may play an important role in tumor cell metastasis. Alternatively spliced transcripts encoding different proteins have been described.





> RDC1003 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaagggt ggaatgtctg caaggcgatt aagtgggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcacac atggtgtgct tccgcctctt cccggttcog ggctcagggc tcgttctggt
501  ctgcctagto ctgggagctg tgcggtctta tgcattggaa cttaatgtga cagattcaga aaatgccact tgcctttatg caaaatggca gatgaatttc
601  acagttcgct atgaaactac aaataaaact tataaaactg taaccatttc agaccatggc actgtgacat ataatggaag catttgtggg gatgatcaga
701  atggttccaa aatagcagtg cagttcggac ctggcttttc ctggattgcg aattttacca aggcagcato tacttattoa attgacagcg tctcattttc
801  ctacaacact ggtgataaca caacatttcc tgaatgctgaa gataaaggaa ttcttactgt tgaatgaact ttggccatca gaattccatt gaatgacctt
901  tttagatgca atagttttatc aacttttgaa aagaatgatg ttgtccaaca ctactgggat gttcttgtao aagcttttgt ccaaaatggc acagtgaaga
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1901 cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggc ggtttgcgta ttgggcgctc ttcgcttcc
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2201 cgacgctcaa gtcagaggtg gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct ccctcgtgcg ctctcctggt ccgacctgct
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3901 agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgag ccctttctgc
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> RDC1003 Translated Insert Sequence

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1   mvcfrlfpvp gsglvvlclv lgavrsyale lnltlsenat clyakwqmnf tvryetnkt yktvtisdhg tvtyngsicg ddqngpkia v qfgpgfswia
101  nftkaastys idsvfsynt gdnttfpdae dkgiltvdel lairiplndl frcnslstle kndvvqhywd vlvqafvqng tvstneflcd kdkststvapt
201  ihttvpsptt tptpkpepa gtysvnnngnd tollatmgld linitqdkvas vininpnth stgscrshda llrlnsstik yldfvfavkn enrflkev n
301  ismylvngsv fsiannnlsy wdaplgssym cnkeqtvsvs gafqintfdl rvqpfnvtqg kystaqecsl dddtilipii vgaglsqlii vivaiyvigr
401  rksyagytql
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