

## Specifications:

Gene:	hLAMP1
Accession:	NP_005552
Insert size:	1267bp
Concentration:	10µg at 0.2µg/µL

## hLAMP1/CD107a cDNA Plasmid

**LAMP1 lysosomal-associated membrane protein 1 [ *Homo sapiens* (human) ]**

**Also known as:** LAMPA; CD107a; LGP120

### Summary:

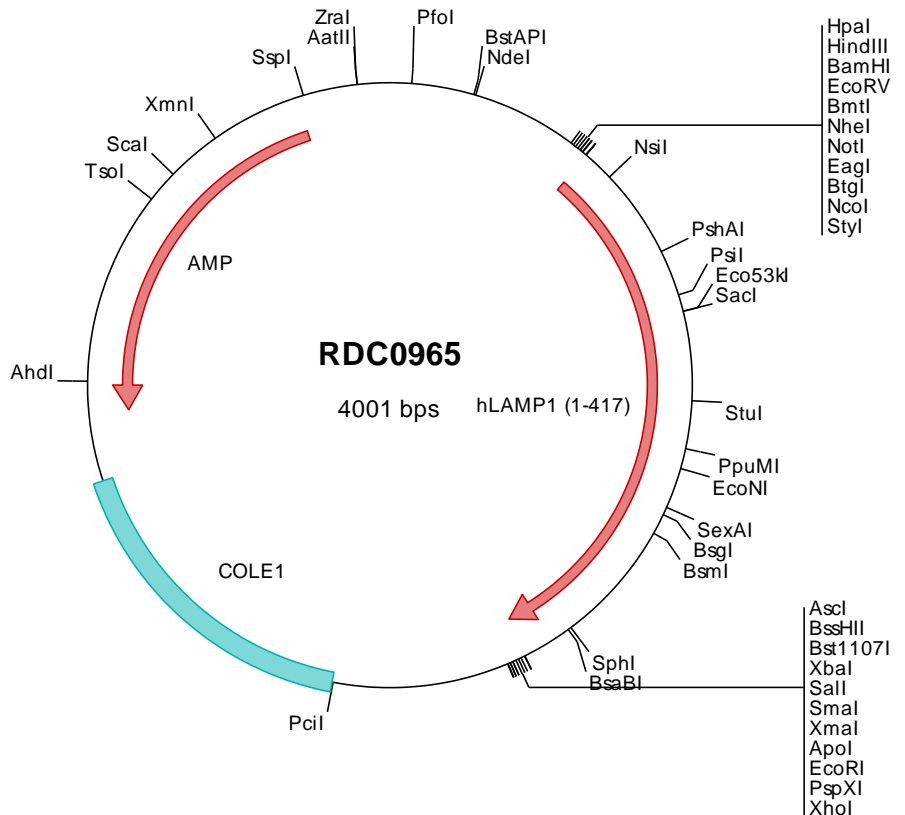
LAMP1 is a transmembrane glycoprotein that is a major protein component of lysosomal membranes. LAMP1 is presented on the plasma membrane during the activation of NK cells, CD8<sup>+</sup> T cells, mast cells, basophils, monocytes, and platelets. LAMP1, along with LAMP2, is essential for the formation of phagolysosomes. When on the cell surface, LAMP1 may present carbohydrates to selectins. LAMP1 may play an important role in tumor cell metastasis.

## 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.





> RDC0965 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc ggccgcacc atggcggccc cgggcagcgc cggcgacc ccagctctgc tactgtgtt
501 gctgctgctc ggccctcagc attgtgctc agcagcaatg tttatggtga aaaatggcaa cgggaccgcg tgcataatgg ccaactctc tgctgcttc
601 tcagtgaact acgacacca gagtggccct aagaacatga ccttgaact gccatcagat gccacagtgg tgctcaacog cagctcctgt ggaaaagaga
701 acacttctga cccagctctc gtgattgctt ttggaagag acatatactc actctcaatt tcacgagaaa tgcaaacctg tacagcgtcc agctcatgag
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901 aaaaaataca gatgtgttag tggcaccocag gtccacatga acaacgtgac cgtaacgctc catgatgcca coactcaggg gtactcttcc aaacagcagt
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1201 acggtgacaa ggcttctcaa catcaacccc aacaagacct oggcccaggg gagctggcgc gccaccctgg tgactctgga gctgcacagc gaggggacca
1301 ccgtctgctc ctccagcttc gggatgaatg caagtcttag ccggttttcc ctacaaggaa tccagttgaa tacaattctt cctgacgcca gagacctgc
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1701 ctaaaaggcgc gccagatatac tctagagtgc acaccgggg aattcctcga gcgctcgtct ctagcttggc gtaatcattg tcatagctgt tccctgtgtg
1801 aaattgttat ccgctcaciaa tccacaciaa catacagacc ggaagcataa agtgtaaagc ctgggggtgc taatgagtga gctaaactcac ataatattgcg
1901 ttgcgctcac tgcccgtttt ccagctggga aacctgctgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cgttttgcgt attgggcgct
2001 ctcccgcttc ctgcctcact gactcgtgc gctcgtcgg gctcgtcgg cgagcgttat cagctcactc aaaggcggtg atacggttat ccacagaatc
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2301 gctctcctgt cccagccgtg ccctttagcc gatcctgtc ccgctttctc ccttcgggaa cctcgggagc gctgagcgtc tctcaatgc tcacgctgta ggtatctcag
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2501 ccggttaagc acgacttacc gccactggca gcagccactg gtaacagat tagcagagc aggtatgtag cgggtgctac agagttcttg aagtgtgtg
2601 ctaactacgc ctacactaga aggacagtat ttggtatctg cgctcgtcgt aagccagttta ccttcggaaa aagagttggt agctcttgat ccggcaaaa
2701 aaccaccgct ggtagcggtg gttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatctttc tacggggtc
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3001 agttgcctga ctccccgtc tgtagataac tacgatacgg gagggttac catctggccc cagtgctgca atgataccgc gagaccacg ctaccggct
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3501 ccaagtatt ctgagaatag tgtatgcggc gaccgagttg ctcttgcgg cgctcaatac gggataatac cgcgccacat agcagaactt taaaagtgt
3601 catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgtttagatc cagttcagtg taaccactc gcgcaaccca ctgatctca
3701 gcatctttta cttccaccag cgtttctggg tgagcaaaaa caggaaggca aaatggcgca aaaaagggaa taagggcgac acggaatgt tgaatactca
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3901 tccgcgcaca tttcccga aagtgccacc tgagcttaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gcccttctg
4001 c

> RDC0965 Translated Insert Sequence

1 maapgsarrp llllllllll glmhcaasam fmvkngngta cimanfsaaf svnydtkssp knmtfdlpsd atvvlnrssc gkentsdppl viafgrghtl
101 tlnftrnatr ysvqlmsfvy nlsdthlfpn asskeiktve sitdiradid kkyrcvsgtq vhmnnvtvl hdaticayls nssfsrgetr ceqdrpsptt
201 appappspsp spvpkpspvd kynvsgtngt cllasmglql nlyerkndt tvtrllninp nktsasgscg ahlvlelhs egttvlifgf gmnasssrrff
301 lqqiqntil pdardpafka angsrlralqa tvgnsykna eehvrvtkaf svnifkwvq afkveggqfg sveecllden smlipavgg alaglvllvl
401 iaylvgrkrs hagtgti