

## Product datasheet for **RR208927**

### Lamp1 (NM\_012857) Rat Tagged ORF Clone

#### Product data:

|                          |   |
|--------------------------|---|
| Product Type:            | Expression Plasmids   |
| Product Name:            | Lamp1 (NM_012857) Rat Tagged ORF Clone                                      |
| Tag:                     | Myc-DDK   |
| Symbol:                  | Lamp1   |
| Synonyms:                | LGP120  |
| Vector:                  | pCMV6-Entry (PS100001)  |
| E. coli Selection:       | Kanamycin (25 ug/mL)  |
| Cell Selection:          | Neomycin  |
| ORF Nucleotide Sequence: | >RR208927 representing NM_012857<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCCCGGGCGCCCGGGCGCGCTGCTCCTGTTGCTGCTGGCAGGCCTTGCACACAGCGCCCCAG  
CACTGTTTCGAGGTGAAAGACAACAACGGCAGCGTGTATAATGGCCAGCTTCTCTGCCTCTTTCTGAC  
CACCTATGATGCTGGACATGTTTCTAAGGTCTCGAATATGACCCTGCCAGCCTCTGCAGAAGTCTGAAG  
AATAGCAGCTCTTGTGGTAAAAGAATGCTTCTGAGCCACCCTCGCAATCACCTTTGGAGAAGGATATT  
TACTGAAACTCACCTTCAAAAAACACAACACGTTACAGTGTCCAGCACATGTATTTACATATAACCT  
GTCAGACACAAATTCTTTCCCAATGCCAGCTCCAAAGGGCCCGACACTGTGGATTCCACAACCTGACATC  
AAGGCAGACATCAAAAAACATACCGATGTGTGTCAGCGACATCAGGGTCTACATGAAGAATGTGACCATTG  
TGCTCTGGGACGCTACTATCCAGGCCTACCTGCCGAGTAGCAACTTCAGCAAGGAAGAGACACGCTGCC  
ACAGGATCAACCTTCCCAACTACTGGGCCACCCAGCCCTCACCACCCTTGTGCCACAAAACCCAGT  
GTGTCCAAGTACAATGTGACTGGTGACAATGGAACCTGCCTGCTGGCCTCTATGGCACTGCAACTCAACA  
TCACCTACATGAAGAAGGACAACACGACTGTGACCAGAGCATTCAACATCAACCCAAGTGACAAATATAG  
TGGGACTTGCGGTGCCAGTTGGTGACCCTGAAGGTGGGGAACAAGAGCAGAGTCTGGAGCTGCAGTTT  
GGGATGAATGCCACTTCTAGCCTGTTTTCTGCAAGGAGTTCAGTTGAACATGACTCTTCTGATGCCA  
TAGAGCCACGTTTCAGCACCTCCAATTTCCCTGAAAGCTCTTCAGGCCAGTGTGCGCAACTCATAACA  
GTGCAACAGTGAGGAGCACATCTTTGTGAGCAAGGCGCTCGCCCTCAATGTCTTCAGCGTGAAGTCCAG  
GCTTTTCAGGGTAGAAAGTACAGGTTTGGGCTGTGGAAGAGTGTGTACAGGACGGTAACAACATGCTGA  
TCCCCATTGCTGTGGCGGGCCCTGGCAGGGCTGGTCTCATCGTCTCATCGCCTACCTCATCGGCAG  
GAAGAGGAGTACGCGGGCTATCAGACCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208927 representing NM\_012857  
 Red=Cloning site Green=Tags(s)

MAAPGARRPLLLLLLAGLAHSAPALFEVKDNGTACIMASFSASFLTTYDAGHVSKVSNMTPASAEVLK  
 NSSSCGEKNASEPTLAITFGEGYLLKLTFTKNTRYSVQHMYFTYNLSDTQFFPNASSKGPDTVDSTTDI  
 KADINKTYRCVSDIRVYMKNVTIVLWDATIQAALPSSNF SKEETRCPDQPSPTTGPPSPPLVPTNPS  
 VSKYNVTGDNGTCLLASMALQLNITYMKDNTTVTRAFNINPSDKYSGTCGAQLVTLKVGKNSRVLELQF  
 GMNATSSLFFLQGVQLNMTLPDAIEPTFSTSNYSLKALQASVGNYSYKCNSEEHIFVSKALALNVFSVQVQ  
 AFRVESDRFGSVEECVQDGNMMLPIAVGGALAGLVLIIVLIAYLIGRKRSHAGYQTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

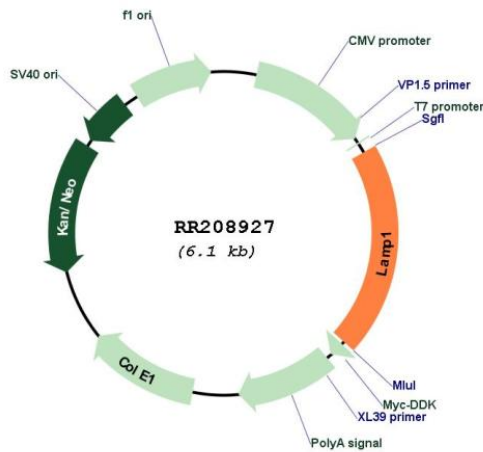
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_012857

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1221 bp   |
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_012857.2</a> , <a href="#">NP_036989.1</a>   |
| <b>RefSeq Size:</b>           | 2005 bp   |
| <b>RefSeq ORF:</b>            | 1224 bp   |
| <b>Locus ID:</b>              | 25328   |
| <b>UniProt ID:</b>            | <a href="#">P14562</a>  |
| <b>Cytogenetics:</b>          | 16q12.5   |
| <b>MW:</b>                    | 44 kDa  |
| <b>Gene Summary:</b>          | a lysosomal acidic membrane protein [RGD, Feb 2006]   |