

Product datasheet for **RR210568**

Lamp5 (NM_001014183) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamp5 (NM_001014183) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lamp5
Synonyms:	BAD-LAMP; LAMP-5; RGD1306991
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210568 representing NM_001014183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATCTACGAGGAAGAGCCCTTCTCGGTGGAGACAGACTTCGGATTCTCCTAATGTTCTTCCATGCAA
TGGCCAAACCGTGCCAGAACAAGAAGTGAAAATCTTTCGGCCCTTCCACGAACCCGGAGAAAGACAT
ATTTGTGGTGC GGAAAAATGGGACGACGTGTCTCATGGCAGAGTTGCAGCCAAATTTATTGTACCTTAT
GATGTGTGGGCCAGCAATTATGTGGATCTGATCAGAGCAGGCTGAGATCTCCTTGACCCGGGAGCTG
AGGTGAAGGGCCGCTGTGGTCAACGAGTCGGAGCTGCAGGTGTTCTGGGTAGATCGCGCTACACACT
CAAAATGCTCTTTGTAAGGAAAGTCACAACACTTCCAAGGACTAGAGGCGACTTGAAGCTGAGCAAG
GTGCAAGTTGTCTATGATTCCTCAGAGAAGACCCACTTTAAAGATGCTGTGAGTGCTGGGAAGCATAACC
CCAACCTCACCACCTCTCTGCCTTGGTGACCCAGCTGGGATGTCCTATGAGTGCCAGGCTCAGCAGAC
CATTTCTCTGGCCTCCAGTGATCCTCAGAAGACTGTCACCATGATCCTGTCTGCAGTGCACATTCAGCCC
TTTGATATCATCTCTGACTTTGTCTTCAGTGAAGAGCATAAATGTCCAGTGGATGAGCGAGAACAGTTGG
AAGAGACCCTGCCCTGATCCTGGCCTCATCTTAGGCCTGGTCATTGTCATAAACAATTTGATTTACCA
CATTATCACAAAATGACTGCCAACCAAGTGCAGATCCCCAGAGACCGTTCACAGTACAAGCACATGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210568 representing NM_001014183
 Red=Cloning site Green=Tags(s)

MDLRGRALLGGDRLRILLMFFHAMAQTVAEQEVENLSGLSTNPEKDI FVVRENGTTCMAEFAAKFIVPY
 DVWASNVDLITEQAEISLTRGAEVKGRCGHNESELQVFWVDRA YTLKMLFVKESHNTSKGLEATWKL SK
 VQFVYDSSEKTHFKDAVSAGKHTANSHHLSALVTPAGMSYECQAQQTISLASSDPQKTVTMILSAVHIQP
 FDIISDFVFSEEHKCPVDEREQLEETLPLILGLILGLVIVITLVIYHIHKKMTANQVQIPRDRSQYKHMG

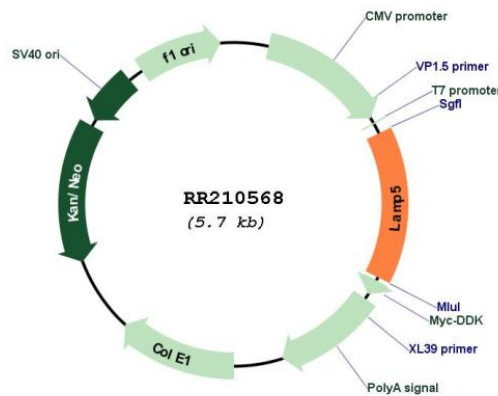
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014183
 ORF Size: 840 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001014183.1 , NP_001014205.1
RefSeq Size:	1864 bp
RefSeq ORF:	843 bp
Locus ID:	362220
UniProt ID:	Q5PPI4
Cytogenetics:	3q36
MW:	31.5 kDa
Gene Summary:	Plays a role in short-term synaptic plasticity in a subset of GABAergic neurons in the brain. [UniProtKB/Swiss-Prot Function]