

Product datasheet for **RR200947**

Lamb2 (NM_012974) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Lamb2 (NM_012974) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Lamb2
 Synonyms: SLAM
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR200947 representing NM_012974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTGGGCTCAGGAAAACCAGGGAGGGGCAGGCAGGGACAGCCTGTGCCATGGGAACCTTCGTTGG
 GCCTACTTCTAAGTGTGCTGGCTGCCACATTGGCCCAAGTCCCATCCTTGGATGTACCTGGCTGTTCTCG
 AGGAAGCTGCTATCCAGCCACCGGTGACCTGTTGGTGGGCGTGCAGACAGACTGACAGCCTCCTCCAGC
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 GTGACTCCCGACGTCCCTTCTCTGCTCGAGACAACCCAAATAGTCACCGGATCCAGAATGTAGTCACTAG
 CTTTGGCCACAACGCCGACGGCCTGGTGGCAGTCGGAGAACGGTGTCCGATGGTCACCATCAAACCTG
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GCCTGAGCCATGACCTGCTAGGCTGCCGCCCTGTGACTGTGATGTGGGCGGTGCCTTGGATCCTCAGTG
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 CAACACCTGCCAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200947 representing NM_012974
 Red=Cloning site Green=Tags(s)

MEWASGKPGRGRGQPVWELRLGLLLSVLAATLAQVPSLDVPGCSRGSCYPATGDLLVGRADRLTASST
 CGLHSPQPYCIVSHLQDEKKCFLCDSSRRPFSARDNPNSHRIQNVVTSFAPQRRTAWWQSENGVPMVTIQL
 DLEAEHFHITLIMTFKTRPAAMLVERSADFGRTWRVYRYFSYDCGADFPGIPLAPRRWDDVVCESTRYS
 EIEPSTEGEVIYRVLDPALIPDPYSSRIQNLKLTNLRVNLTHTLGNLLDPRREIREKYYALYEL
 VIRGNCFYGHASQCAPAPGAPAHAEGMVHGACICKHNTRGLNCEQCQDFYQDLPWHPAEDGHTHACRKC
 ECNGHSHSCHFDMAVYLASGNVSGGVCDGCQHNTAGRHCCELCPFFYRDPKMDRPAACRCPDCDPMGS
 QDGGRCDSHDDPVLGLVSGQCRCKEHVVGTRCQQCRDGFGLSASNPRGCQRCQNSRGTVPGGTPCDSS
 SGTFCFKRLVTGDGCDRCLPGHWGLSHDLLGCRPCDCDVGALDPQCDEATGQCPCPHMIGRCEQVQP
 GYFRPFLDHLTWEAEGAHQVLEVVVERLVTNRETPSWTGVGFVRLREGQVEFLVTSLPRAMYDILLRW
 EPQVPEQWAELELVVQRPGPVAHSPCGHVLPRDDRIQGMHPNTRVLFPRPVCLEPGLSYKLLKLTG
 TGGRAHPETPYSGGILIDSLVLQPHVLMLEMFSGGDAALERRTTFERYRCHEEGLMPSKTPLSEACVP
 LLISASSLVYNGALPCQCDPQGSLSSECNPHGGQCRCKPGVVGRRCDACATGYYGFGPAGCQACQCSPDG
 ALSALCEGTSGQCLCRTGAFGLRCDHCQRGQWGFPCNCRPCVCNGRADECAHTGAACLGRDYTGGEHCEC
 CIAGFHGDPRLPYGGQCRPCPEGPGSQRFATSCHRDGYSQIVCHCRAGYTLRCEACAPGHFGDPS
 KPGGRCQLCECSGNIDPTDPGACDPHTGQCLRCLHHTEGPHCGHCKPGFHGQAARQSCHRCTCNLLGTD
 QRCPSTDLCHCDPSTGQCPCLPHVQGLSCDRCAPNFWNF TSGRGCQPCACHPSRARGPTCNEFTGQCHCH
 AGFGGRTCSECQELHWGDPGLQCRACDCDPRGIDKPQCHRSTGHCSCRPGVSGVRCDCQARGFSGVFPAC
 HPCHACFGDWRVVDLAARTRRLEQWAQELQQTGVLGAFESSFLNLQGLGMVQAIVAARNTSAASTAK
 LVEATEGLRHEIGKTTERLTQLEAELTDVQDENFNANHALSGLERDGLALNLTLRQLDQHLDILKHSNFL
 GAYDSIRHAHSQSTEAEERRANASTFAIPSPVSNADTRRRRAEVLGMAQRENFNQRHLANQQALGRLSTHT
 HTLSLTGVNELVCGAPGDAPCATSPCGGAGCRDEGQPPRCGGLGCSGAAATADLALGRARHTQAEQLRAL
 VEGGGILSRVSETRRQAEAAQQAALDKANASRGQVEQANQELREL IQNVKDFLSQEGADPDSIEMVA
 TRVLDISIPASPEQIQRLASEIAERVSLADVDTILAHTMGDVRRAEQLLQDAQRARSRAEGERQKAETV
 QAALAEAQAQGAQAIRGAVVDTKNTQTLQQVQERMAGTEQSLNSASERARQLHALLEALKLKRAGN
 SLAASTAEETAGSAQSRAREAEKQLREQVGDQYQTVRALAERKAEGVLAQAQAEQLRDEARGLLQAAQD
 KLQRLQELGTYEENERELEVKAAQLDGLEARMRSVLQAINLQVQIYNTCQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

| | |
|-------------------------------|---|
| ORF Size: | 5403 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_012974.1 , NP_037106.1 |
| RefSeq Size: | 5581 bp |
| RefSeq ORF: | 5406 bp |
| Locus ID: | 25473 |
| UniProt ID: | P15800 |
| Cytogenetics: | 8q32 |
| MW: | 196.5 kDa |
| Gene Summary: | a component of the basal lamina; may be involved in motor neuron function [RGD, Feb 2006] |