

Product datasheet for **RR217649**

Robo2 (NM_032106) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Robo2 (NM_032106) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Robo2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217649 representing NM_032106
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTCCTCTGATGTTACTACTATTGCTCTTTGGATTTCTCCGCATTCGGACTGACGGATNTCGTC
TTCGTCGAAGAAGACTTTCCCCCAAGATNGTAGAACACCTTCTGAAGTCATCGTCTCCAAGGAAAACC
CAACACTCCGAAGTGAAGCAAAAGGGCCGCCATTCCAACAATTGGAAGGTACAAAGGATGGTTAAA
CCGGTTGGGACAAGACCAAGGATGATTCCAAGGTCACACAAGGATGCCTTCTGCCAGCGGATCCTTAT
TCTTTTGGCAATTGTTACGGACGACAGAAAGTAAACCAGATGAAGGAACCTACGTTTGTGTTGCAAGGAA
CTATCTTGGTGAAGCAGTGAGTCGCAATGCATCTCTGGAAGTAGCATTATTGCGAGATGACTTCCGGCAA
AACCCACAGATGTGGTAGTCGACGAGGAGAGCCTGCAATCTTGGAGTCCAGCCACCACGGGGACACC
CAGAACCAACCTACTGAAAAAGGACAAAGTCCGAATTGATGAGAAGGAAGAGAGAATAAGTATCCG
TGGTGGGAAGCTGATGATCTCCAATACTAGGAAAAGCGATGCTGGCATGTATACCTGTGTGGGAACCAAC
ATGGTGGGAGAAAGGGACAGCGACCCTGCAGAGCTCACTGTCTTTGAACGACCCACGTTTCTCAGGAGGC
CAATCAACCAGGTGGTGTGGAGGACGAGCCTGCAGAATTCGGCTGTGAGTCCAAGGAGATCCCGAGCC
AACGGTGAAGTGGAAAAAGGATGACGCAGACTTACCAAGAGGAAGGTATGATATCAAGGACGACTACACC
CTGAGAATCAAAAAGGCCATAAGTGCAGATGAAGGCACCTATGTGTGCATTGCTGAGAACCAGGTTGGGAA
AAGTGGAAAGCTTCTGCCACCCTCACTGTCCGAGCTCCTCCACAGTTTGTGGTTAGGCCAAGAGATCAGAT
CGTTGCTCAGGGCCGGACAGTGACATTTCCCTGTGAAACTAAAGGAAACCCACAGCCAGCTGTCTTCTGG
CAGAAAGAAGGCAGCCAGAACCTACTTTTCCGAATCAACCTCAGCAGCCCAATAGCCGCTGTTCAGTGT
CGCCCACGGGGACCTCACCATCAACAATTCAGCGTTCAGATGCGGGTTACTACATCTGCCAGGCCCT
AACTGTGGCAGGAAGCATTTTAGCTAAAGCACAGCTGGAAGTTACTGACGTTTGTGACAGATAGACCTCCA
CCATAATCTTGCAAGGACCAATAAACCAAACTTGGGTAGATGGCACAGCATTACTGAAATGTAAGG
CCACTGGACCTTCTCTGTAATTAGCTGGCTAAAGGAGGGCTTTACTTTTCTGGGTAGAGATCCAAGAGC
TACGATCCAAGACCAAGGAACACTGCAGATTAAGAATTTACGGATTTCTGATACTGGCACTTATACATGT
GTGGCTACAAGTTCGAGTGGGAGACTTCTGGAGTGCAGTGCTGGATGTGACAGAGTCTGGAGCAACAA
TCAGTAAAAATTATGATACAAATGACCTGCCGGGCCACCATCCAACCTCAGGTCACTGATGTTACGAA
GAACAGTGCACCCTATCTGGCAGACAGGTACCCTGGCGTTCTCCAGCAAGCGCATATACATTGAG



[View online »](#)

GCTTTCAGCCAATCGGTGAGCAACAGCTGGCAGACAGTGGCAAACCATGTTAAGACGACTCTCTATACAG
TCAGAGGACTAAGGCCAACACAATCTATCTGTTTCATGGTCAGAGCGATCAACCCCAAGGTCTCAGTGA
TCCAAGCCCATGTGGATCCTGTACGCACACAAGATATCAGTCCCCCAGCACAAGGCGTGGACCACAGA
CAAGTGCAGAAGGAGTTAGGAGATGTACTGTTCTCCACAATCCAGTTGCTGACACCTACAACCTG
TTCAAGTACATGGACGGTGGACCGACAACCCAGTTTATTTCAGGGCTACAGAGTGTGTACCGACAGAC
CTTGTGAATCTGAAAAAGGGGGTACTTATGAAATTAAGTCAGGCCATATTTCAATGAGTTCCAAGGAA
TGGACAGTGAATCAAAAACAATCCGTACTACTGAGGAAGCTCCAAGTGGCCTCCCCAGTCTGTACAGGT
GCTGACCGTTGGAAGCCATAACAGCACAAAGCATTAGTGTTCCTGGGATCCTCCACCAGCCGACCACCAG
AATGGAATCATACAGGAATACAAGATCTGGTGTCTGGGAAATGAAACGCGATTCCATATCAATAAACTG
TGGATGCAACCATTCGCTCTGTAGTAATAGGTGGCTTGTCCCTGGAATTCAGTACCGGGTGAAGTGGC
AGCTAGTACAAGTGCAGGGTGGAGTAAAAAGTGAACCACAGCCAATAATCATTGGGGACGTAAACGAA
GTTGTCATTACTGAAAACAATAACAGCATAACTGAGCAAATCACTGATGTCGTGAAGCAACCAGCATTTA
TAGCTGGCATCGGTGGTCTGCTGGGTAAATTTGATGGGTTTATGATCTGGTATACTGGAGAAGAAA
GAAGAGAAAGGGACTTAGCAATTATGCTGAACATTTCAAAGAGGAGATGGAGGACTAATGAGCAATGGG
AGCCGTCCAGGTCTTCTAAATACTGGCGACCCCAATTATCCATGGCTTGTGACTCATGGCCAGCCACGA
GTTTGCCAGTCAACAACAGCAATAGTGGCCAAATGAAATCGGAAATTTGGGCGTGGAGATGTGCTGCC
TCCAGTCCCAGGCCAAGGGGATAAACAGCAACAATGCTCTCAGATGGAGCTATTTATAGTAGCATTGAC
TTCCTACTACCAAGACCCTTACAACAGTTCAGCCAAAATAACGCAGGCCACCCCATACGCCACTACCCAGA
TCCTGCATTCACACAGCATCCATGAACTGGCGGTTGATCTTCTGATCCACAGTGGAAAAGCTCAGTTCA
ACAGAAATCAGACCTCATGGGATTTGCTTATTCCTACTACCTGATCAGAACAAAGGGGAACAATGCCTTACT
TACATCCCTGACTACCGATTGGCTGAGGGATTGTCTAATAGAATGCCACACAACCAGTCAACAGGATTTCA
GCACCACAGCTCTCACAAACAGCTCAGAAAGGAGTGGCAGTCTCTCAGGTGGGAAAGGTGAAAAAGAA
GAAAACTAAAAATTTCTCAAAGGCGCAAAAAACAACGGATCCACTTGGGCTAATGTCCCTCTACCTCCT
CCTCCTGTCCAGCCCTTCCGGGTACAGAGCTCGGACACTATCCTGCGGAACAGGAAAATGGCTATGACA
GTGATAGCTGGTGGCCACCATTACCAGTGCAAACCTATTTGCATCAGGGAATGGAAGACGAGTTGGAAGA
GGATGAAGATCGCGTCCCAACACCTCCTGTTCCGCGGTGTGGCCTCTTACCCGCTATCTCCTTTGGGCG
CAGTCCACTGCCACTCTTACACCATCCCCACGGGAGGAGATGCAACCCATGCTGCAAGCTCACTTGGATG
AGTTAACCAGGGCCTATCAGTTTGATATAGCAAAAACAACATGGCACATTCAAAGCAATACTCCACCTCC
ACAACCCCGAGTCCACCATTAGGTTACGCGTCCGGAGCCTTGATTTCTGACTTGAGACAGATGTTCCA
GATGAGGATGCTGATGATGAAGAGGAACCATAGAAATCCCAGGCCCTCAGAGCACTAGACCAGACTC
CTGGTTCCAGTATGGACAATCTAGACAGCTCTGTAACAGGAAAAGCCTTTACTTCTCTCAAAGGCAGCG
GCCACCAGCCATTTCTACAGACAGTAAACACAGTGTGCCAGAATCAAAGCCAGAGGCCTCGGCC
ACCAAAAAACAAGGGAGGGCGGATGGACCCACAGCCAGTGTACCTCATCGGAGGGAAGGGATGCCAG
ATGATCTTCCCCACCACAGATCCCCACCAGGTGAGGGTTAAGGCAGCAGATAGGCCTGAGCCAACA
CTCTGGTAACGTGGAAGCTCAACAGAGAGGAAAGGAAGCTCTCTAGAGAGACAACAAGCAGCCAACCTA
GAAGACACAAAGAGCTCATTGGATTGTCCGGCTAAAATACTGTAGAGTGGCAGCATCAAACCCAGGACT
GGATAAATCTACAGAGCGCCAAGAAGAAACACGGAAAGCCCAACAACACCAGGGTGGATCAGAGGA
GTCCCTGGTGGCCTACAGCAAGCCAGCTTCCATCTCCAGGCGGGCACAGCTCATCCGGAACAGCCTCC
TCTAAAGGGTCCACTGGTCTCGGAAGGCTGAGATTCTGAGGGGAGCCACCAGCGGAATGCCAATGACC
TTCTCGACATTGGATATGTGGGCTCAAATAGTCAAGGGCAGTTTACAGGTGAATTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

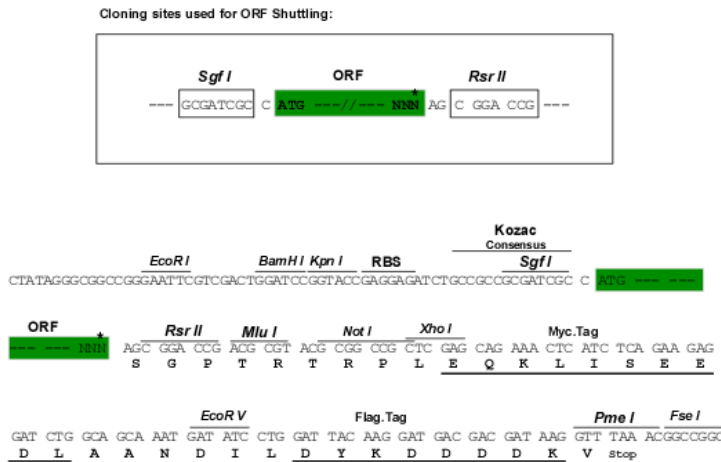
Protein Sequence: >RR217649 representing NM_032106
 Red=Cloning site Green=Tags(s)

MTPLMFTLLLLFGFLRIRTDGXRLRQEDFPPKXVEQPSEVIVSKGKPNTPNWKQKGRPFPTIGKVQRMVK
 PGWDKTKDDSKVTQGCLLPSGSLFFLRIVHGRRSKPDEGTYYVCVARNYLGEAVSRNASLEVALLRDDFRQ
 NPTDVVVAAGEPAILECQPPRGHPEPTIYWKDKVRIDEKEERISIRGGKLMISNTRKSDAGMYTCVGTN
 MVGERSDPAELTVFERPTFLRRPINQVLEDEPAEFRCVQVQDQPPTVRWKKDDADLPRGRYDIKDDYT
 LRIKKAISADEGTYYVCIENRVGKVEASATLTVRAPPQFVVRPRDQIVAQGRVTVPCEYKGNPQPAVFW
 QKEGSQNLFPNQPPNSRCSVSPTGDLTITNIQRSDAGYYICQALTVAGSILAKAQLEVTDVLTDRPP
 PIILQGPINQTLAVDGTALLKCKATGPLPVISWLKEGFTFLGRDPRATIQQDGLQIKNLRISDTGTYYTC
 VATSSSGETSWSAVLDVTEGATISKNYDNDLPGPPSKPVTDVTKNSVTLVSWQGTGTPVLPASAYIIE
 AFSQSVNSWQTVANHVKTLLYTVRGLRPNTIYLFMVRAINPQGLSDPSPMSDPVRTQDISPPAQGVDRH
 QVQKELGDVTVRLHNPVVLTPTTVQVTVTVDRQPQFIQGYRVMYRQTSGLQASTVWQNLDAKVPTERSAV
 LVNLKKGVTYIEIKVRPYFNEFQGMDSSEKTI RTTEEAPSAPPQSVTVLTVGSHNSTSISVSWDPPPADHQ
 NGIIQEKIWKCLGNETRFHINKTVDATIRSVVIGGLFPGIQYRVEVAASTSAGVGVKSEPQPIIIGGRNE
 VVITENNSSITEQITDVVKQPAFIAGIGGACWVILMGFSIWLWYRRKRRKGLSNYAVTFQRDGGGLMSNG
 SRPGLLNTGDPNYPWLADSWPATSLPVNNSNSGPNEIGNFGRGDVLPVPGQGDKTATMLSDGAIYSSID
 FTTKTTYNSSSQITQATPYATTQILHSNSIHELAVDLPDPQWSSVQKSDLMGFAYSLPDQNKGNALL
 YIPDYRLAEGLSNRMPHNQSQDFSTTSSHNSERSGSLSGGKGGKTKNSSKAQKNNGSTWANVPLPP
 PPVQPLPGTELGHYPAEQENGYDSDSWCPPLPVQTYLHQGMEDELEDEEDRVPTPPVIRGVASSPAISFGQ
 QSTATLTPSPREEMQMLQAHLDELTRAYQFDIAKQTWHIQSNTPPPQPPVPLGYASGALISDLETDVP
 DEDADDEEEPLEIPRPLRALDQTPGSSMDNLDSSVTGKAFSSQRQRPTSPFSTDSNTSAAQNSQRPRP
 TKKHKGRMDPQPVLPHRREGMPDDLPPPPDPPPGQGLRQQIGLSQHSGNVESSSTERKGSLSERQQANL
 EDTKSSLDCAKTTVEWQHQTQDWINSTERQEETRKAPHKPGVGSEESLVPYSKPSFSPGGHSSSGTAS
 SKGSTGPRKAEILRGSHQRNANDLLDIGYVGSNSQGFTEGL

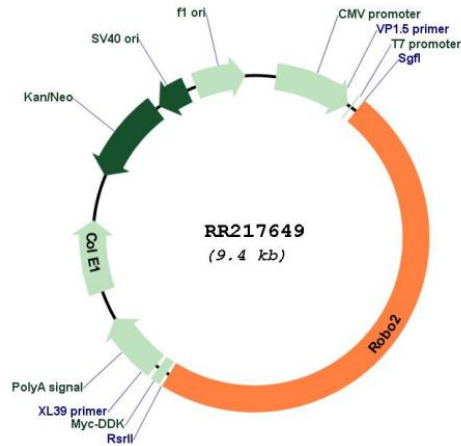
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_032106

ORF Size: 4536 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:

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_032106.2](#), [NP_115289.1](#)

RefSeq Size: 8977 bp

RefSeq ORF: 4539 bp

Locus ID: 84409

Cytogenetics: 11p11

MW: 165.7 kDa

Gene Summary: repulsive axon guidance receptor for the slit protein ligands; plays a role in axon guidance and repulsion [RGD, Feb 2006]