

Product datasheet for **RN205390**

Robo1 (NM_022188) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Robo1 (NM_022188) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Robo1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205390 representing NM_022188 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATGGAACATCTTCTCTTCTGGTCATGATATCTCTCCTCACTCTATCAAAAAGCATCTCCTTC
TGGCCAGCTTATCCAGACCCGAGGACCTAGAGAGGGGAACGACAACGGGACGCCACCCACCTC
TGATAATGATGACAATTCGCTGGGCTACACAGGCTCCCGTCTCCGTCAGGAAGATTTCCACCGCATT
GTTGAGCACCCCTCAGACCTGATCGTCTCTAAAGGGGAACCCGCCACCCTCAACTGTAAAGCTGAAGGCC
GCCCTACCCCGACTATAGAATGGTACAAGGGCGGCGAAAGAGTGGAAAACGGACAAAGACGACCCTCGCTC
ACACCGAATGCTGCTGCCAAGTGGATCTTTATTTTTCTTACGCATAGTGCATGGACGGAAGAGTAGGCCCT
GACGAAGGGTCTACATCTGTGTAGCAAGGAATTACCTCGGAGAGGCTGTGAGCCACAATGCATCGCTGG
AGGTAGCTATACTACGGGATGACTTCAGACAAAACCCCTCAGATGTTATGGTGGCGGTGGGCGAGCTGC
AGTAATGGAATGCCAGCCTCCTCGGGGCCACCCAGAGCCACCATCTCCTGGAAAAGGATGGCTCACCC
CTGGATGATAAAGACGAGCGAATCACTATCCGAGGCGGGAAGCTCATGATCACGTACACCCGTAAGGCG
ATGCTGGCAAGTATGTTTGTGTTGGTACCAACATGGTAGGGAGCGGGAGAGCAAAGTCGCGGACGTGAC
TGTCTTAGAGAGACCGTCTTTGTAAAGAGACCCAGTAATTTGGCAGTACTGTGGATGACAGTGTGAG
TTTAAGTGTGAGGCCGAGGAGACCCCGTCTACGTTCCGGTGGAGGAAAGATGACGGAGAGCTGCCCA
AATCCAGATATGAGATCCGAGATGATCATACTTTGAAAATTCGGAAGGTGACAGCTGGCGACATGGGATC
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CCACATTTTGTGCGTGAAGCCTCGAGACCAGGTGGTTGCCCTGGGGCGAAGTGTGACTTTTCAGTGTGAAG
CAACTGGAATCCTCAACCAGCTATCTTTGGCGGAGAGAGGGGAGTCAAGTCTGCTTTTCTCATACCA
GCCTCCACAGTCTCTAGCCGGTTTTAGTTTTCCAGACGGGGGACCTCACTGTTACGAAGTCCAGAGG
TCTGATGTCGGTACTATATCTGTCAGACTTTGAACGTGGCTGGAAGCATCATCACAAGGCATATTTGG
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AGTGGATGGTACTTTAACTCTCAGCTGTGTGGCCACAGGCAGTCCCGTGGCCACAATTCTGTGGAGGAAG
GATGGAGTCTTTGTTCAACCAAGATTCTCGGATCAAACAGCTGGAGAGCGGGTCTGCAGATCCGCT
ACGCTAAGCTGGGTGACACCGTCCGTTACACTGCACTGCTTCGACCCCAAGTGGTGGAGCCAGTGGAG
CGCTTACATCGAAGTCCAGGAATTTGGAGTTCAGTTCACCTCCAAGACCCACCCACCCCAATTTAATC



CCCAGTGCCTTCAAAGCCTGAAGTCACAGATGTGAGCAAAAACACAGTCACTTTATTGTGGCAGCCTA
 ACCTGAACTCAGGAGCAACCCCAACGTCTTATATTATAGAAGCCTTCAGCCATGCATCTGGTAGCAGCTG
 GCAGACCGTGGCAGAAAAATGTGAAAACAGAAACATTCCGCATCAAAGGGCTCAAACCTAATGCGATCTAC
 CTTTTCTGGTGGGGCAGCAATGCCTATGGGATTAGCGATCCAAGCCAAATATCCGATCCAGTGAAAA
 CACAAGATGTCCCACCAACCACCAAGGGGTGGACCACAAGCAGGTCCAGAGAGAACTGGGCAATGTTGT
 CTTGCATCTCCACAACCCCTACCATCTTTCTTCTCTTCTGTGCGAAGTGCAGTGGACGGTGGACCAACAA
 TCTCAATATATTCAGGTTATAAAATTTCTACCGACCCTCTGGAGCCAGCCATGGCGAATCGGAGTGGT
 TAGTTTTTTGAAGTGGGACCCCAACCAAAAATAGTGTGGTGTATCCCGATCTGAGAAAAGGCGTCAACTA
 CGAGATTAAGGCCCGCCATTTTTTAATGAGTTCCAAGGAGCAGATAGTAAAATCAAATTTGCCAAAACC
 TTAGAAGAAGCAGCAAGTCCCTCCCGAAGTGTCACTGTATCCAAGAATGATGAAAATGGGACAGCAA
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 TCTCGGAATGAGACTAGGTATCACATAAAACAAGACAGTATAGTGGCTCTACCTTTTTCGGTGGTATTCCC
 TTTCTTGTCTGGAATCCGCTACAGTGTAGAAGTGGCTGCAAGCACTGGGGCTGGCCCTGGGTGAAGA
 GTGAGCCCCAGTTCATCCAGTTGGATCCCATGAAAACCCCGTGTCTCCCGAGGACCAAGTGAAGCCTGGC
 TCAGCAGATCTCCGACGTGGTGAAGCAGCCAGCCTTATTGCGGGCATCGGGCCGCTGTTGGATCATT
 CTATGGTCTTCAAGTATCTGGCTTACCAGACCCGCAAGAAGAGAAAACGGGCTCAGCAGCAGTACGCGG
 GGATCCGAAAAGTCCCGTCTTTACCTTACACCAACAGTAACTTATCAAAGAGGAGGCGAAGCCGTCAG
 CAGTGGAGGGAGGCCGGACTCCTCAACATCAGTGAACCTGCCACACAGCCATGGCTGGCGGACAGTGG
 CCCAACACAGGCAACAGTCAATGACTGCTCCATCAACTGCTGCACAGCCAGCAACGGCAACAGCGACA
 GCAACCTGACCACCTACAGTCCCGCAGCTGATTGTATAGCAAATATAACAACCAACTGGATAACAAACA
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 CCACCACGAGCTCATCCAGGCAATCTCATCAACAATATGAATAACGGCGGGGGGACTCCAGCGAGAA
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 AAGTTGAACAAAGATTATCGGGCAATGACACAATCCTTCCAACCATCCCGTACAACCATCNTATGACC
 AGAATACAGGAGGATCCTACAACAGCTCAGATCGGGCAGTAGTACATCTGGGAGTCAAGGCCACAAGAA
 AGGGGCACGGACACCAAGGCACCAAGCAGGGTGGCATGAACTGGGCGACTTGTGCCCTCCCCCA
 GCGCATCTCCCCACACAGCAACAGCGAGGAATACAGCATGTCTGTAGATGAAAGCTATGATCAAGAAA
 TGCCGTGCCCTGTTCCGCTGCACGGATGATTTGCAACAGGATGAATTAGAAGAAGAGGAAAGCTGAAAG
 AGGCCCCACGCCCTGTCCGGGGCAGCTTCGTCCCGAGTGTGTCTACAGCCATCAGTCCAGC
 GCCACTCTACCCCGTCTCCCGAGGAAGAGCTCCAGCCTATGTTACAGGATTGTCCGGAGGACCTCGGCC
 ACATGCCCCACCCAGACAGGAGGCGGAGCCGGTGTGCTCCTCCACCACCCAGGCCAATTTCCCC
 ACCACATACTTACGGCTACATTTTCAAGACCCCTGGTCTCAGACATGGATACGGATGCCCGAAGAGGAG
 GAAGACGAAGCTGACATGGAAGTTGCTAAGATGCAGACCCGAAGGCTGTTGTTACGTGGGCTTGAACAGA
 CCCCAGCATCTAGTGTGGGGACCTCGAGAGCTCGGTCACTGGCTCCATGATCAATGGCTGGGGCTCAGC
 CTCAGAAGAGGACAACATTTCCAGTGGGCGCTCCAGTGTGAGTTCATCGGATGGTTCCTTTTCTACTGAC
 GCGGATTTTGGCCAGGAGTGCAGCAGCCCGAGTATGCGGGCCTGAAGGTGGCTCGCCGCCAGATGC
 AGGATGCTGTGGCCGCCGACACTTCCATGCCTCCAGTGCCTAGGCCACGAGTCTGTGTCTACAGA
 CAGCAACATGAGTGTGCTGTAATCCAGAAAGCCAGACCCACCAAGAAACAGAAGCAGCCAGCCAGGACAT
 CTGCGCAGAGAGGCTACACAGATGATCTTCCACCACCTCCAGTCCACCAGCCTGATAAAAATCGCCCA
 GTGTCCAGTCCAAGGCACAGCTGGAGGCACGGCTATAATGGGGCCTAAGCTCGTTCTATAGAAGCGAG
 AGCAGACAGATCATCAGACAGAAAAGCGGCGAGTTACAAGGGGAGAGAAGCTCTGGACGGAAGACAAGTC
 ACTGACCTGCGAACAAGCCAGGTGACCCAGAGAAGCACAGGAGCAGCCAAACGAGGGAAAGCACGAG
 GGACGAAGACAGCAAAGCGAGACCTTCCACCAGCGAAGACACACCTCATCCAGAGGATATCCTTCCGTA
 CTGTAGGCCTACTTTCCAACGTCAAACAACCCTAGGGATCCAGTCTTCAAGCTCAATGTCATCAAGA
 GGCTCAGGAAGCCGACAGAGAGCAAGCAAATGTGGCCGAAGAAATATGGCAGAAATGCAAGTACTTG
 GGGGATTTGAAAGAGGAGATGAGAATAATGAAGAATTAGAGGAAACTGAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_022188
Insert Size:	4956 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).</p>
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:	<u>NM_022188.1</u> , <u>NP_071524.1</u>
RefSeq Size:	4956 bp
RefSeq ORF:	4956 bp
Locus ID:	58946
UniProt ID:	<u>O55005</u>
Cytogenetics:	11p11
Gene Summary:	putative axon guidance receptor [RGD, Feb 2006]