

Product datasheet for **MG219689**

Plxnb3 (NM_019587) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plxnb3 (NM_019587) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plxnb3
Synonyms:	AI451018; Plxn6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219689 representing NM_019587 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGACTGACTTCCTCCAGGCTCCTGTGATGGCTCCCTGGTCTCCCTCAGCCTCCACCTGCTGCTGC
TGTTCTGCCGCTGCTGCCTTTGACCAGGGTCCATCGTTCTCTGTACCAAATACCAGCTCAACCACCT
GGTGTGCCACCAGATCAGGGCAAACCTCTACGTGGGTGCAGTGAATCACCTCTTCAGCTCAGCCCTGAG
CTGAAGATGGAGTCTGTGGCTGCTACTGGCCCTGTATTGACAGTCTGATTGTGTGCCTTCCGTGACC
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ACTCGGAGAGGCGAGTGTGGACGGGCAGCCCAGCCAAACCACTGGCTGTGGAGCTACGAAGACAACCACT
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 CCAGATTACAGTGCCTGGAGGAGACCCTGTGGCCAGAAGATGCAGCTGGCTTGGCCCTGCAGCAG
 GTGGCTGCCTTGGTGAATACAAAGTACTGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219689 representing NM_019587
 Red=Cloning site Green=Tags(s)

MLTDFLQAPVMAPWSPFSLHLLLLFLPLLPLTRVHRFSVPNTSFNHLVLPDQGKLYVGVNHLFQLSPE
 LKMESVAVTGPVIDSPDCVPFRDLAECPOAQLTDNANQLLLVSSRTQELVACGQVKQGVCEKRRLDVDTQ
 VLYQAEDPGDGFVAANTLVGTTVGLVVPLPGRDLLLVARGLAGKLSAGVPLTVRQLAGPQPFSSSEGLG
 RLVVGGDFSDYNNYSYVGFSDAHSAYFVFRRRGARAQTEYRSYVARVCLRDVNLVSYVEMPLTCHGQGLIQ
 AAFLLTPDILLGAFSAGTSQAQAALCAFPLADLDRSMEQARRLCYTTGGQGPSGMEEATVEYGVTSRCVTL
 PPDSPESYPCGDEHTPSPVIAGRQPLEAQPLLQLGQSI SAVAALQTDGHTIAFLGDTQGQLHKVFLNSSHG
 QVYHSQQVGGPQSAISPDLVDSNGDHLVYLTAQQVDRILVAACPQFPNCTTCLQARDPLCGWCILQGRG
 TRRGECGRAAQPNNHLSYEDNHCPYIQSLLPAQHPRQEQQIILSVPRLPTLAMDEYFHCAFGGYNSLA
 QVEEPHVCTTPPQDQMPNPPGSDHVTPLALMFEDVLLTATFSFYDCSAVQALEVAAPCRACVSSLW
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 QGLPALYHCWLELPGKQLKLPASLEETSRSGLIHCQAQFYFSPMSQWELVPVIYVTRGEIQRDNDAGDL
 HVTLYDCAMGHPDCSHCAANGSLSCLWCGDGPACRYGPLCPPGAVEQLCPIPSIDVIEPLTGPPEGL
 AITILGNSLGFANDVRNAVTVAGQPCNPDPVSLYRISARIVCVTSPAPNGTAGPVQVAIKSRPPGISTQN
 FTYQDPVLLSLNPQWGPQAGGTQLTIHGQYLQTGGNISVFDGQPCPIQEPVCEAIIICHTMPQTEPGEA
 VVLI VFGHVERKLLTTPFRYANPQLVEAEPVSVFRGGGRVIRVGTGLDVVWQPLL SVWLEDEPKVKAL
 GVQAQDANPRRSCGAPAADPQACIHLESGLLQCSTLCSVNSSLLCHSPA VPDGALPKRVFFALDNMQV
 DFASASGGQGFLYQPNPRLAPLSHEGITHPYHLKPGHVL DVEGELNLGISKEEVQVHIGDGECLVKTLT
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 LLTLMYRHKSKKALRDYQKVLVQLENLETGVGDQCRKEFTDLMTEMTDLTSDLEASGIPFLDYRTYAERA
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 ALHASKLEYLTDIMRTLLGDAAHYVHKNPKMLRRRTETMVEKLLTNWLSICLYTFLKEVAGEPLYMLFRA
 IKYQVDKGPVDAVTGKAKRTLNDSHLLREDVEFQPLTLMALVGPEADRAAGNSGVHRVPARVLDTDITIQ
 VKEKVLQDIYKGTFFSQRPSVHSLDLEWRSGLAGHLTSDDELTSVTONHWKRLNLTQHYKVPDGTAVVL
 IPQVHNGGTVSQSLGQTGCPGSGENTPMLLEDGEEGVRLWHLVKATEEAEGAKVRRSSLRDRERERSRAKA
 IPEIYLTRLLSMKGTLLQKFVDDTFQAILSMNRPVPIAVKYLDFDLDELAEKHGIEDPETLHIWKTNLSLL
 RFWVNVLKNPQLIFDVQVSDNEDAILAVIAQTFIDSCMVSEHKVGRDSPVNKLLYAREIPRYKQMVKEYY
 ADIRQSSPASYQEMNSALAEALSGNYSSAPHCLEALREL YNHIHRYDQIISALEEDPVAQKMLACRLQQ
 VAALVEYKVTDL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_019587.2, NP_062533.2</p>
RefSeq Size:	<p>6024 bp</p>
RefSeq ORF:	<p>5709 bp</p>
Locus ID:	<p>140571</p>
UniProt ID:	<p>Q9QY40</p>
Cytogenetics:	<p>X A7.3</p>
Gene Summary:	<p>Receptor for SEMA5A that plays a role in axon guidance, invasive growth and cell migration. Stimulates neurite outgrowth and mediates Ca(2+)/Mg(2+)-dependent cell aggregation. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDI A-mediated inactivation of RAC1 (By similarity). Seem to be non-essential for normal development and function of the central nervous system. [UniProtKB/Swiss-Prot Function]</p>