

Product datasheet for **MG226328**

Plxna4 (NM_175750) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plxna4 (NM_175750) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plxna4
Synonyms:	9330117B14; mKIAA1550; Plxa4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226328 representing NM_175750 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGAAGTGGACTTGCTGCTCTCCACCTGCTGGTGGTAGGGATGGGCTCCTCCACTCTGCTTC
CACGACAGCCACCCAGCTGTCTCAGAAGCCTTCTTTGTGACATTCGAGGGGAGCCTGCTGAGGGCTT
CAATCACCTTGTGGTGGATGAGAGGACAGGGCACATTTATTTGGGGCTGTCAACAGAATCTACAAACTC
TCTAGTGACCTCAAGTCTTGGTACTCATCAGACAGGGCCAGATGAGGACAACCCCAAGTGTACCCAC
CTCGGATTGTTTACAGCTGCAATGAGCCTCTGGCCAGCACCAATAACGTCAACAAGATGCTGCTTATAGA
CTACAAAGAAAACAGGCTGATCGCGTGTGGGAGCCTGTACCAGGGTATCTGCAAGCTCCTGAGGCTAGAG
GACCTCTTCAAGTTGGGAGAGCCCTTTCACAAGAAGAACATTATCTCTCGGGAGTTAACGAGAGTGGCT
CAGTCTTTGGGGTATTGTTTCCACAGCAACTTTGATGACAACTCTTTATTGCCACAGCAGTGGATGG
CAAACCTGAATATTTTCTACCATCTCCAGCAGGAAGCTGACTAAGAAGCTCTGAGGCCGATGGCATGTTT
GCTTACGTTTTCCACGATGAATTTGTGGCCTCTATGATTAAGATCCCTTCAGACACTTTCACGGTTATCC
CCGACTTTGACATCTACTACGTCTATGGCTTACAGCAGTGGCAATTTTGTCTACTTTTTGACCCTTCAGCC
AGAGATGGTGTCTCCCCAGGCTCCACGACAAAAGGAGCAGGTGTACACCTCAAAGCTTGTGAGGCTTTGC
AAAGAGGACACAGCCTTCAACTCTACGTAGAGGTGCCATTGGCTGTGAGCGCAATGGGGTGGAGTATC
GCTTGTACAGGCTGCCTACTTGTCTAAAGCTGGTGCAGTGCTTGGCCGACCCTAGGAGTCCGCCCAGA
TGACGACCTCCTTTCACCGTCTTCTCCAAGGGCCAGAAGCGGAAGATGAAATCTCTGGATGAGTCTGCC
CTGTGCATCTTCACTTGAAGCAGATCAATGATCGCATTAAAGACCGCCTGCAGTCTGTTATAGGGGTG
AGGGAACACTAGACCTGGCCTGGCTCAAGGTGAAGGACATCCCTTGCAGCAGTGCCTCCTTACTATTGA
TGACAACCTTGTGGCCTGGATATGAATGCTCCTCTGGGAGTTCCGAAATGGTGCCTGGCATTCCAGTC
TTCACAGAAGACAGGGACCGCATGACTTCTGTCATCGCCTATGTCTACAAGAACCACTACTGGCCTTCG
TGGCACCAAAAAGTGGCAAGCTGAAGAAGATCCGGTTGATGGGCCCAAGGAAATGCCCTCCAATATGA
GACTGTGCAGGTGGTGGACTCAGGACCAGTCTCCGGGACATGGCCTTTTCCAAGGACCAGGCAACTC



[View online »](#)

TACATCATGTGCAGAAAGGCAGCTTACCAGAGTTCCTGTGGAGTCCTGTGGGCAGTACCGGAGCTGTGGCG
 AGTGTCTTGGCTCAGGTGACCCCATTTGTGGTGGTGTGTGCTCCACAACACGTGACCCCGGAAGGAACG
 GTGTGAACGCTCCAGAGAACCCGAAGGTTTGCCTCAGAGATGAAGCAGTGTGTCCGGCTGACGGTCCAT
 CCCAACAACTCTCTGTCTCTCAGTACAACGTGCTGTGGTCTAGAGACATAAATGTCCCGGAGCTGT
 CAGCAGGTGTCAACTGTACCTTTGAAGATCTGTGAGAGATGGATGGGCTGGTAATAGGCAATCAGATCCA
 GTGCTACTCCCTGCAGCCAAGGAAGTGCCCGGATCATCACAGAAAATGGGACCATCATGTTGTCCAG
 CTGCAACTCAAGTCAAAGGAGACTGGGATGACCTTCGCCAGCACCAGCTTGTCTTACAACCTGCAGTG
 TCCACAATTCATGCCTGTCTGTGGAGAGCCGTACCCTTGCCACTGGTGTAAATACCGGCATGTTTG
 TACTCACGACCCCAACACATGCTCCTTCCAGGAAGGCCGAGTGAAGCTACCTGAGGACTGCCCCAGCTG
 CTGCGAGTGGACAAGATCCTCGTCCAGTAGAGGTGATCAAGCCCATCACTCTGAAGGCTAAGAACCTCC
 CACAGCTCAGTCGGGACAGAGAGGCTACGAGTGCATCTTGAACATCCAGGGCATCGAGCAGAGGGTACC
 TGCTCTGCGCTTCAACAGCTCCAGTGTGCAGTGTGAGAACCTCCTATTCTATGAAGGAATGGAGATC
 AACAACTGCCAGTGGAGTTGACAGTGTGGAATGGACTTCAACATTGACAACCCAGCTCAGAATA
 AAGTTTACCTCTACAAGTGTGGAGCCATGCGGAGAGCTGTGGGCTGTGCCTCAAGGCCACCCGGATTT
 CGAGTGTGGCTGGTGTGAGAGCCAGGCCAGTGTACCCTGCGCCAGCACTGCCCTGCCCATGAGAGCCGG
 TGGTTGGAAGTGTGCGGGGCCAACAGCAAGTGCACCAACCCTCGTATCACAGAGATCATCCAGTACCGG
 GCCCTCGAGAAGGGGGCCAAAGGTCACCATCCGAGGGGAGAAGTGGGCTGGAATCCGTGACATTGC
 ATCACAGTGAAGTGGCTGGTGTGGAATGCAGCCCTTGGTGGATGGCTACATCCAGCTGAACAGATC
 GTGTGTGAGATGGGTGAGGCCAAGCCTAGCCAGCATGCAGGCTTGTGGAGATCTGTGTGGCTGTGTGC
 GGCCTGAGTTCATGGCCCGCTTTCGACGCTCTATTACTTCACTGACTCTGACCCTCGCAGATCTGAAGCC
 CAACCGAGGACCCATGTCTGGGGGACACAGGTTACCATCACAGGTACCAACTGAATGCAGGCAGCAAT
 GTTGTGGTGTGTTCCGGAGCCAGCCCTGCCTTCCACAGGCGCTCTCCATCTACATTATCTGTAACA
 CTACATCTCAGAGGAGGTGCTGGACATGAAGGTGACTGTGAGGTGGACAGGGCCAGGATCCGCCAGGA
 CCTGGTCTTTCAGTACGTGGAGGACCCCAACATTGTGCGGATTGAACCAGAATGGAGCATTGTGAGTGGG
 AACACACCTATTGCTGTCTGGGAACTCACCTGGACCTCATACAGAACCACAGATCCGTGCCAAGCATG
 GAGGAAAAGAACACATCAACATCTGTGAGGTCCTAAATGCTACAGAGATGACCTGCCAGGCTCCAGCCCT
 TGCCCTGGGTCCCGACCACCAAGTCCAGATCTCACTGAGAGGCTGAAGAATTTGGTTTTCATCTGGACAAT
 GTCCAGTCTCTGCTAATTCTCAACAAGACCAACTTACCTATTATCTAACCCTGTTTGGAGGCTTTCA
 GTCCCTCGGGAATCCTGGAGCTCAAGCCGGGACCCCATATCTAAAGGGCAAGAAGTGTATCCCGCC
 TGTGGCCGGAGGCAATGTGAAGTGAACACACCTGCTGGTGGGAGAAACCATGCACCGTGACAGTA
 TCAGATGTGAGTGTCTCTGCGAGTCTCCAACCTCATCGGCAGGCACAAAGTGTGGCACGGGTGGGTG
 GCATGGAGTATCCCTGGGATGGTATACATCGCCCCAGACAGCCGCTCAGCCTGCCCGCCATTGTGAG
 CATCGCGGTGGCTGGTGGCTCCTCATCATCTTCACTCGTGCCGTAATCATCGCTACAAACGCAATCC
 CGAGAAAGTACCTCACGCTGAAGAGGTTGCAGATGCAGATGGACAACCTTGAGTCCCGTGTGGCGCTGG
 AGTGCAAGGAAGCTTTTGCAGGCTGCAGACAGATATCCATGAGCTTACCAGTGACCTGGATGGAGCTGG
 GATTCCCTTTCTGGACTACAGAACCTATACCATGCGGGTGTGTTCCAGGGATTGAAGACCACCCTGTG
 CTACGAGACCTTGAGGTCCAGGCTACCGGCAGGAGCGTGTGGAGAAAGGACTCAAGCTCTTCGCCAGC
 TCATCAACAACAAGGTGTTCTGCTCTCTTTCATCCGCACTCTGGAGTCTCAGCGCAGTTTTTCCATGCG
 CGACCGAGGTAACTGGCTCCCTCATCATGACGGTACTTCAGAGCAAGCTAGAGTATGCCACTGACGCTG
 CTGAAGCAGCTACTGGCTGACCTATTGATAAGAACCTGGAGAGCAAGAACCACCCCAAGCTGCTGCTCA
 GGAGGACGGAGTCGGTGGCCGAGAAGATGTTGACTAATTGGTTCACTTTCTCCTCTACAAGTCTCTCAA
 GGAGTGTGCTGGGGAGCCACTCTTCTCCCTGTTCTGTGCCATCAAGCAGCAGATGGAGAAGGGCCCAT
 GATGCCATCACCGGAGAGGCCGCTACTCGCTAAGTGAAGGACAACTCATCCGACAGCAGATTGAATATA
 AAACCTTGGTCTGAGCTGTGTGAGTCCAGATAATGTTAACAGCCAGAGGTCCAGTGAAGATCTCTCAA
 CTGTGACACCATCACTCAGGTCAAAGAGAAGATCTAGATGCCATCTTCAAGAATGTCCCGTGTCCCAT
 AGGCCCAAAGCTGCAGACATGGATCTAGAGTGGCAGCAAGGAAGTGGGGGAGGATGATCCTGCAGGACG
 AAGATATCACCAAGATCGAGATGATTGGAAGAGACTCAACACAGTAGCCACTACCAGGTACCAGA
 TGGTTCTGTGGTGGCTTTAGTGTCCAAGCAAGTACAGCCTACAATGCAAGTGAACAACCTCACTGTCTCC
 AGGACTTCAGCAAGTAAATATGAGAACATGATCCGGTACACAGGCAGCCCTGACAGCCTCCGTTCCCGGA
 CACCCATGATCACCCCTGACCTGGAAGCGGGGTCAAGCTTTGGCATCTGGTGAAGAACCATGAACATGG
 AGACCAGAAGGAGGGGGACCGGGGGAGCAAGATGGTGTCTGAGATCTATCTGACACGACTATTGGCCACA
 AAGGCCACACTGCAGAAGTTTGTGGATGACCTATTCGAGACCATCTTCACTACGGCCACCGTGGCTCCG

CTCTGCCGCTAGCCATCAAGTACATGTTTGACTTCCTCGATGAGCAGGCTGATAAGCACGGCATCCATGA
 CCCGCACGTCCGCCACACCTGGAAGAGCAACTGCCTGCCCTACGGTTTTGGGTGAATATGATCAAGAAC
 CCTCAGTTTGTGTTTGACATCCATAAGAACAGCATCACGGATGCCTGTCTCTGTGGTGGCCAGACCT
 TCATGGACTCTGCTCCACTTCGGAGCACCGACTGGGCAAGGATCCCCCTCCAACAAGCTGCTCTATGC
 CAAGGACATCCCCAGCTACAAGAAGTGGGTAGAGAGGTATTATTACAGACATTGGGAAGATGCCGGAATA
 AGTGACCAGGACATGAATGCATACCTGGCCGAGCAGTCGCGGATGCACATGAATGAGTTCAATACGATGA
 GTGCGCTCTCAGAGATCTTCTCCTATGTGGGCAAATACAGTGAGGAGATCCTTGGACCCCTGGACCATGA
 TGACCAGTGTGGAAAGCAGAACTGGCTTACAACTAGAACAAGTCATAACTCTCATGAGCTTAGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226328 representing NM_175750
 Red=Cloning site Green=Tags(s)

MPWNWTCLLSHLLVVGMSSTLLPRQPQLSQKPSFVTFRGEPAEGFNHLVVDERTGHIYLGAVNRIYKL
 SSDLKVLVTHQTGPDENPKCYPPRIVQTCNEPLASTNNVNKMMLLIDYKENRLIACGSLYQIGICKLLRLE
 DLFKLGEPFHKEHYLSGVNESGSVFGVIVSYSNFDDKLFIAAVDVGKPEYFPTISSRKLTKNSEADGMF
 AYYFHDEFVAMIKIPSDTFTVIPDFDIYVYVGFSSGNFVYFLTLQPEMVSPPGSTTKEQVYTSKLVRLC
 KEDTAFNSYVEVPIGCERNGVEYRLLQAAYLSKAGAVLGRITLGVPRDDLLFTVFSKGQKRKMKSLDESA
 LCIFILKQINDRIKDRQLQSCYRGEGLDLAWLKVKDIPCSALLTIDDNFCGLDMNAPLGVSEMRGIPV
 FTEDRDRMTSVIAVYVKNHSLAFVGTSGKLLKIRVDGPKGNALQYETVQVVDSPVLRDMFAFKDHEQL
 YIMSERQLTRVPVESCQYRSCGECLGSDPHCGWCVLHNTCTRKERCERSREPRRFASEMKQCVRLTVH
 PNNI SVSQYNVLLVLETYNVPELSAGVNCTFEDLSEMDGLVIGNQIQCYSPAAKEVPRIITENGDDHHVVQ
 LQLKSKETGMFASTSFVFNCSVHNSCLSCVESPYPYRCHWCKYRHVCTHDPNTCSFQEGRVKLPEDCPQL
 LRVDKILVPVEVIKPIITLAKKNLPQPQSGQRGYECILNIQGIEQVLPALRFNSSSVQCQNTSYSYEGMEI
 NNLVPELVVWNGHFNIDNPAQNKVYLYKCGAMRESCGLCLKADPDFECGWCQSPGQCTLRQHCPAHERS
 WLELSGANSKCTNPRITEIIPVTGPREGGKVTIRGENLGLFRDIASHVKVAGVECSPLVDGYIPAEQI
 VCEMGEAKPSQHAGFVEICVAVCRPEFMARSSQLYYFMTLTLADLKPNRGPMSGGTQVTITGTNLNAGSN
 VVVMFGSQPCLFHRRSPSYIICNTTSSEEVLDKMTVTVQVDRARIRQDLVFQYVEDPTIVRIEPEWSIVSG
 NTPIAVWGTHLDLIQNPQIRAKHGGKEHINICEVLNATEMTCQAPALALGPDHQSDLTERPEEFGFILDN
 VQSLILNKNFTYYPNPVFEAFSPSGILELKPGTPIILKGNLIPPVAGGNVKLNVTVLVGEKPCPTVTV
 SDVQLLCEPNLIGRHKVMARVGMVYIAPDSPLSLPAIVSIAVAGLLIIFIVAVLIAAYKRKS
 RESDLTLKRLQMMDNLESRVALECKEAFELQTDIHELTSDDLGGAGIPFLDYRITYTMRVLPFGIEDHPV
 LRDLEVPGYRQERVEKGLKLFQALINNKFLLSFIRTLESQRSFSMRDRGNVASLIMTVLQSKLEYATDV
 LKQLLADLIDKNLESKNHPKLLLRRTESVAEKMLTNWFTFLLYKFLKECAGEPLSFLCAIKQQMEKGP
 DAITGEARYSLSEDKIRQQIEYKTLVLCVSPDNVNSPEVPVKILNCDTITQVKEKILDAIFKNVPCSH
 RPKAADMDLEWRQSGARMILQDEDITTKIENDWKRLNTVAHYQVPDGSVVALVSKQVTAYNAVNNSTVS
 RTSASKYENMIRYTGSPDSLRSRTPMITPDLESGVKLWHLVKNHEHGDQKEGDRGSKMVSEIYLTRLLAT
 KGTLQKFVDDL FETIFSTAHRSALPLAIKYMDFLDEQADKHGIHDPHVRHTWKSACLPLRFWVNMKN
 PQFVFDIHKNSITDACLSVVAQTFMDSCTSEHRLGKDSPSNKLKYAKDIPSYKNWVERYSSIDIGKMPAI
 SDQDMNAYLAEQSRMHMNEFNTMSALSEIFSYVGKYSSEEILGPLDHDQCGKQKLAAYKLEQVITLMSLDS

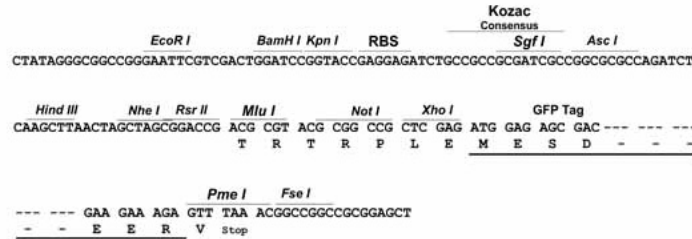
TRTRPLE - GFP Tag - V

Restriction Sites:

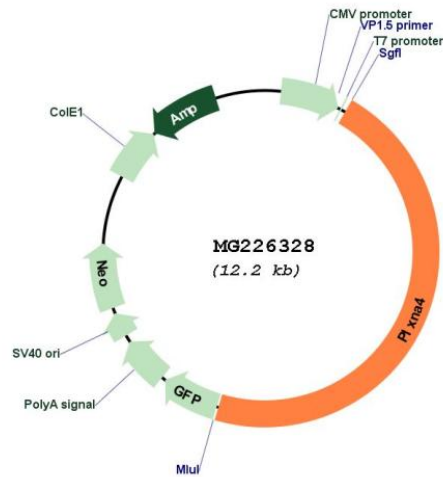
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_175750
 ORF Size: 5670 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>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:	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_175750.3 , NP_786926.2
RefSeq Size:	12602 bp
RefSeq ORF:	5682 bp
Locus ID:	243743
UniProt ID:	Q80UG2
Cytogenetics:	6 A3.3
Gene Summary:	<p>Coreceptor for SEMA3A. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance in the developing nervous system. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm. [UniProtKB/Swiss-Prot Function]</p>