

Product datasheet for **SC107330**

Plexin A4 (PLXNA4) (NM_181775) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Plexin A4 (PLXNA4) (NM_181775) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Plexin A4 |
| Synonyms: | FAYV2820; PLEXA4; PLXNA4A; PLXNA4B; PRO34003 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_181775, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGCCATGCCCTGGAACCTGGACCTGCCTTCTCTCCACCTCCTCATGGTGGGCATGGGCTCCTCCA
CTTTGCTCACCCGGCAGCCAGCCCCGCTGTCCAGAAGCAGCGGTCAATTTGTACATTCCGAGGAGAGCC
CGCCGAGGGTTTCAATCACCTGGTGGTGGATGAGAGGACAGGACACATTTACTTGGGGCCGTCAATCGG
ATTTACAAGCTCTCCAGGACCTGAAGGTCTTGGTGACGCATGAGACAGGCGGACGAGGACAACCCCA
AGTGTTACCCACCCCGCATCGTCCAGACCTGCAATGAGCCCTGACCACCACCAACAATGTCAACAAGAT
GCTCCTCATAGACTACAAGGAGAACAGGCTGATTGCCTGTGGGAGCCTGTACCAAGGCATCTGCAAGCTG
CTGAGGCTGGAGGACCTTTCAAGCTGGGGGAGCCTTATCATAAGAAGGAGCACTATCTGTCAGGTGTCA
ACGAGAGCGGCTCAGTCTTTGGAGTGATCGTCTCCTACAGCAACCTGGATGACAAGCTGTTCAATGCCAC
GGCAGTGGATGGGAAGCCGAGTATTTCCACCATCTCCAGCCGAAACTGACCAAGAAGCTGAGGGC
GATGGCATGTTCCGCTACGTCTTCCATGATGAGTTCGTGGCCTCGATGATTAAGATCCCTTCGGACACT
TCACCATCATCCCTGACTTTGATATCTACTATGTCTATGGTTTTAGCAGTGGCAACTTTGTCTACTTTTT
GACCCTCCAACCTGAGATGGTGTCTCCACCAGGCTCCACCACCAAGGAGCAGGTGTATACATCCAAGCTC
GTGAGGCTTTGCAAGGAGGACACAGCCTTCAACTCCTATGTAGAGGTGCCATTGGCTGTGAGCGCAGTG
GGTGGAGTACCGCTGCTGCAGGCTGCCTACCTGTCAAAGCGGGGGCCGTGCTTGGCAGGACCTTGG
AGTCCATCCAGATGATGACCTGCTTCCACCGTCTTCCAAGGGCCAGAAGCGGAAAATGAAATCCCTG
GATGAGTCGGCCCTGTGCATCTTCACTTGAAGCAGATAAATGACCGCATTAAAGGAGCGGCTGCAGTCTT
GTTACCGGGCGAGGGCACGCTGGACCTGGCCTGGCTCAAGGTGAAGGACATCCCTGCAGCAGTGGCCT
CTTAACCATGACGATAACTTCTGTGGCCTGGACATGAATGCTCCCTGGGAGTGTCCGACATGGTGCCT
GGAATCCCGTCTTACGGAGGACAGGACCCGATGACGTCTGTATCGCATATGTCTACAAGAACCCT
CTCTGGCCTTTGTGGCACAAAAGTGGCAAGCTGAAGAAGTCCCTTCGGCACAGGTCCACAAGGGGGAAT
CACCCAGGAGTGGATTGGAGTGGAGGGAGACCCACCTGGGGCGAACATTGCTTCTCAGGAACAGATGCTG
TGTGTGTATCTTCAAGTCAAGTCAAAAGCAATATCAGATCAGAGAGTCCAGCCTCTGCTTTGTGTCT
TCCTAAATGTACCTGGGAATTCTCCTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181775 unedited

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TAGGGCGGCCCGGAATTCGCACGAGGCGCCGCTGTGCCCGCTTGGCATCAAGGACATTC
AGCCCGCGGGGGTGGGGACGAAGGGGGGCAGCCGGCGTCCGCCACCGCAGCCCCCGAGAG
CCGCCCGCGTCTCGGGCTCCGGGGCTGGGTGGAGGAAAGGGGTGTTCCGAATCGATCC
CCATTTTCCGACCTTTTGTGGACATTACGCCACCTTGGACGCCGCAAGAGAAGCTGT
CAAGCCCCGCAGGCTCTGATTCGGCGCCCTCCCGTTCCTCGGCTGCTCCCGCTTCCCT
GTGCTCGGTGGAGTATTTGCGTTCGGGGCTGGGGCTGGAGGAGGCAGCCACACGCGCGC
ACACGCACACGTTCAAGGAGGGCGAGAGGCAGCGGCATAGGCTCCATCTGCAGTGTCAA
TGCGGCGCTCCCGCTGAAGGAGGAAACGCGGCGTCCAGTAGGGGAGACTGCATTGCT
GAGTCTGGCCCTCTGAGGGGACGACTGTGCTGAGTGTGCTGTGCCACTGGGACCCGC
CTCTGCCATGAAAGCCATGCCCTGNAACTGGACCTGCCTTCTCTCCACCTCCTCATGGT
GGGCATGGGCTCCTCCACTTTGCTCACCCGGCAGCCAGCCCCGCTGTCCAGAAGCAGCG
GTCATTTGTACATTCAGGAGAGCCCCGCGAGGGTTTCAATCACCTGGTGGGGTGGAT
GAGAGACAGGACACATTTACTTGGGGGGCCGTCAATCGGATTTACAAGCTCTCCANCGAC
CTGAAAGTCTGGNTGACGCATGAGACAGGCCCCGGACGAGGACCACCCAGTTGTACC
CACCCGATTGTCCAGACCTGGCATGAGCCCTGACCACCACCAATGTCAA
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_181775

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| OTI Disclaimer: | 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). |
| 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_181775.2 , NP_861440.1 |
| RefSeq Size: | 2015 bp |
| RefSeq ORF: | 1569 bp |
| Locus ID: | 91584 |
| UniProt ID: | Q9HCM2 |
| Cytogenetics: | 7q32.3 |
| Protein Families: | Druggable Genome |
| 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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has different 5' and 3' terminal exons, and is missing many coding exons found in variant 1. It thus encodes a shorter isoform (2) with the same N-terminus, but a different C-terminus compared to isoform 1.</p> |