

## Product datasheet for **SC317105**

### Plexin A4 (PLXNA4) (NM\_001105543) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plexin A4 (PLXNA4) (NM_001105543) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLXNA4
Synonyms:	FAYV2820; PLEXA4; PLXNA4A; PLXNA4B; PRO34003
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317105 representing NM\_001105543.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAAAGCCATGCCCTGGAAGTGGACTGCCTTCTCCCACCTCCTCATGGTGGGCATGGGCTCCTCC
ACTTTGCTCACCCGCGAGCCAGCCCGCTGTCCAGAAGCAGCGGTCATTTGTCACATTCGAGGAGAG
CCCGCCGAGGGTTTCAATCACCTGGTGGTGGATGAGAGGACAGGACACATTTACTTGGGGCCGTCAT
CGGATTTACAAGCTCTCCAGCGACTGAAGTCTTGGTGACGCATGAGACAGGGCCGACGAGGACAAC
CCCAAGTGTACCCACCCCGCATCGTCCAGACCTGCAATGAGCCCTGACCACCACCAACAATGTCAAC
AAGATGCTCCTCATAGACTACAAGGAGAACAGGCTGATTGCCTGTGGGAGCCTGTACCAAGGCATCTGC
AAGCTGCTGAGGCTGGAGACCTCTTCAAGCTGGGGGAGCCTTATCATAAGAAGGAGCACTATCTGTCA
GGTGTCAACGAGAGCGGCTCAGTCTTGGAGTGATCGTCTCTACAGCAACCTGGATGACAAGCTGTTC
ATTGCCACGGCAGTGGATGGGAAGCCCGAGTATTTCCACCATCTCCAGCCGAAACTGACCAAGAAC
TCTGAGGCGGATGGCATGTTCCGCTACGCTTCCATGATGAGTTGCTGGCCTCGATGATTAAGATCCCT
TCGGACACCTTACCATCATCCCTGACTTTGATATCTACTATGTCTATGGTTTTAGCAGTGGCAACTTT
GTCTACTTTTTGACCCTCCAACCTGAGATGGTGTCTCCACCAGGCTCCACCACCAAGGAGCAGGTGTAT
ACATCAAAGCTCGTGAGGCTTTGCAAGGAGGACACAGCCTTCAACTCCTATGTAGAGGTGCCATTGGC
TGTGAGCGCAGTGGGGTGGAGTACCGCCTGCTGCAGGCTGCCTACCTGTCCAAAGCGGGGCCGTGCTT
GGCAGGACCCTTGGAGTCCATCCAGATGATGACCTGCTCTTACCCTTCTTCCAAAGGCCAGAAGCGG
AAAATGAAATCCCTGGATGAGTCGGCCCTGTGCATCTTTCATCTTGAAGCAGATAAATGACCGCATTAAG
GAGCGGCTGCAGTCTTGTACCGGGCGAGGGCACGCTGGACCTGGCCTGGCTCAAGTGAAGGACATC
CCCTGCAGCAGTGCCTTTAACCATTTGACGATAACTTCTGTGGCCTGGACATGAATGCTCCCCTGGGA
GTGTCCGACATGGTGCCTGGAATTTCCCGTCTTCCAGGAGGACAGGACCGCATGACGTCTGTCTCGCA
TATGTCTACAAGAACCACTCTCTGGCCTTTGTGGGCACCAAAAAGTGGCAAGCTGAAGAAGATGCCTGGT
ACCAGCCTCTGCCCTACCCTTGAGCTACAGACGGGACCCCGATCCACAGAGCAACAGTACTCTGGAA
CTCCTGTCTCCAGCTGTTCATCAAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_001105543

**Insert Size:** 1479 bp

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001105543.1</a>
<b>RefSeq Size:</b>	3408 bp
<b>RefSeq ORF:</b>	1479 bp
<b>Locus ID:</b>	91584
<b>UniProt ID:</b>	<a href="#">Q9HCM2</a>
<b>Cytogenetics:</b>	7q32.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	55 kDa
<b>Gene Summary:</b>	<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 (3) has a different 3' terminal exon, and is missing many coding exons found in variant 1. It thus encodes a shorter isoform (3) with the same N-terminus, but a different C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>