

Product datasheet for **SC309736**

Plexin A1 (PLXNA1) (NM_032242) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plexin A1 (PLXNA1) (NM_032242) Human Untagged Clone
Tag: Tag Free
Symbol: Plexin A1
Synonyms: NOV; NOVP; PLEXIN-A1; PLXN1
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_032242, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCTGCCACCGCGGAGCCTGCAGGTGCTCCTGCTGCTGCTGTTGCTGCTGCTG
CTGCCGGGCATGTGGGCTGAGGCAGGCTTGCCAGGGCAGGCGGGGTTACAGCCCCC
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CCACTTGTGCTGCAGGCCTGGAACGTGCCTGACCTCTCAGCTGGCGTCAACTGCTCCTTC
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 AAGTACAAGGATGAGATCCTGGCAGCCCTGGAGAAGGATGAGCAGGCGCGCGGCAGCGG
 CTGCGGAGCAAGCTGGAGCAGGTGGTGGACACGATGGCCCTGAGCAGCTGA

Restriction Sites:	Please inquire
ACCN:	NM_032242
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).
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_032242.2</u> , <u>NP_115618.2</u>
RefSeq Size:	9040 bp
RefSeq ORF:	5622 bp
Locus ID:	5361
UniProt ID:	<u>Q9UIW2</u>
Cytogenetics:	3q21.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance

Gene Summary:

Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. 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]