

Product datasheet for **SC304231**

Plexin D1 (PLXND1) (NM_015103) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plexin D1 (PLXND1) (NM_015103) Human Untagged Clone
Tag: Tag Free
Symbol: PLXND1
Synonyms: PLEXD1
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_015103, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCCTCGCGCCGCGGGCGGCGCACCCCTTAGCGCCCGGGCCGCGCCAGCCCC
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TGCACCAATTCCAGCCAGCAGCATTCTGGACCAAGTCCAGCGAGGGCCCCAGCCGCTGT
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 CTGCAGATCTCGGGCAGCCTGCCAGCCTCAGTGGCATGGAGATGGCCTGTGACTATGGG
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 TGCTACAGTGAGGCCTGA

Restriction Sites:	Please inquire
ACCN:	NM_015103
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_015103.1</u> , <u>NP_055918.1</u>
RefSeq Size:	7095 bp
RefSeq ORF:	5778 bp
Locus ID:	23129
UniProt ID:	<u>Q9Y4D7</u>
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

Cell surface receptor for SEMA4A and for class 3 semaphorins, such as SEMA3A, SEMA3C and SEMA3E. Plays an important role in cell-cell signaling, and in regulating the migration of a wide spectrum of cell types. Regulates the migration of thymocytes in the medulla. Regulates endothelial cell migration. Plays an important role in ensuring the specificity of synapse formation. Required for normal development of the heart and vasculature (By similarity). Mediates anti-angiogenic signaling in response to SEMA3E.[UniProtKB/Swiss-Prot Function]