

Product datasheet for **SC325895**

CXCR3 (NM_001142797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXCR3 (NM_001142797) Human Untagged Clone
Tag:	Tag Free
Symbol:	CXCR3
Synonyms:	CD182; CD183; CKR-L2; CMKAR3; GPR9; IP10-R; Mig-R; MigR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001142797, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTTGAGGAAGTACGGCCCTGGAAGACTGGCGGGGACAGTTATAGGAGGAGCTGCTCAGAGTAAAT
CACAGACTAAATCAGACTCAATCACAAAAGAGTTCCTGCCAGGCCTTTACACAGCCCTTCTCCCCGTT
CCCCCCTCACAGGTGAGTGACCACCAAGTGCTAAATGACGCCGAGGTTGCCGCCCTCCTGGAGAACTTC
AGCTCTTCTATGACTATGGAGAAAACGAGAGTGACTCGTGTGTACCTCCCCGCCCTGCCACAGGACT
TCAGCCTGAACCTCGACCGGGCTTCTGCCAGCCCTCTACAGCCTCCTTTTCTGCTGGGGCTGCTGGG
CAACGGCGCGGTGGCAGCCGTGCTGCTGAGCCGGCGGACAGCCCTGAGCAGCACCACACCTTCTGCTC
CACCTAGCTGTAGCAGACAGCTGCTGGTGTGACTGCGCTCTGGGAGTGGAGCTGCCGTCCAGT
GGGTCTTTGGCTCTGGCCTCTGCAAAGTGGCAGGTGCCCTCTTCAACATCAACTTCTACGAGGAGCCCT
CCTGCTGGCCTGCATCAGCTTTGACCGCTACCTGAACATAGTTTATGCCACCCAGCTCTACCGCCGGGGG
CCCCCGCCCGCGTGACCCTCACCTGCCTGGTGTCTGGGGGCTCTGCCTGCTTTTCCGCTCCCAGACT
TCATCTTCTGTGCGCCACCACGACGAGCGCCTCAACGCCACCCACTGCCAATACAACCTCCCACAGGT
GGGCCGCACGGCTCTGCGGGTGTGACGCTGGTGGCTGGCTTTCTGCTGCCCTGCTGGTGCATGGCTAC
TGCTATGCCACATCCTGGCCGTGCTGCTGTTCCAGGGGCCAGCGCGCCTGCCGGCCATGCGGCTGG
TGGTGGTGGTCTGGTGGCTTTGCCCTCTGCTGGACCCCTATCACCTGGTGGTGTGGTGGACATCCT
CATGGACCTGGGCGCTTTGGCCCGCAACTGTGGCCGAGAAGCAGGGTAGACGTGGCCAAAGTCGGTACC
TCAGGCCTGGGCTACATGCACTGCTGCCTCAACCCGCTGCTATGCCTTTGTAGGGGTCAAGTTCGCGG
AGCGGATGTGGATGCTGCTCTTGCCTGGGCTGCCCAACCAGAGAGGGCTCCAGAGGCAGCCATCGTC
TTCCCGCCGGATTATCCTGGTCTGAGACCTCAGAGGCCTCCTACTCGGGCTTGTGA
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Restriction Sites:	Please inquire
ACCN:	NM_001142797



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OTI Disclaimer: 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.

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](#)

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:

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_001142797.1](#), [NP_001136269.1](#)

RefSeq Size: 1914 bp

RefSeq ORF: 1248 bp

Locus ID: 2833

UniProt ID: [P49682](#)

Cytogenetics: Xq13.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction

Gene Summary:

This gene encodes a G protein-coupled receptor with selectivity for three chemokines, termed CXCL9/Mig (monokine induced by interferon-g), CXCL10/IP10 (interferon-g-inducible 10 kDa protein) and CXCL11/I-TAC (interferon-inducible T cell a-chemoattractant). Binding of chemokines to this protein induces cellular responses that are involved in leukocyte traffic, most notably integrin activation, cytoskeletal changes and chemotactic migration.

Alternatively spliced transcript variants encoding different isoforms have been found for this gene. One of the isoforms (CXCR3-B) shows high affinity binding to chemokine, CXCL4/PF4 (PMID:12782716). [provided by RefSeq, Jun 2011]

Transcript Variant: This variant (2) uses an alternate acceptor splice site at the 3' terminal exon compared to variant 1. This results in an isoform (2, also known as CXCR3-B) with a longer and distinct N-terminus compared to isoform 1. This isoform acts as functional receptor for chemokine CXCL4/PF4 (PMID:12782716).