

## Product datasheet for **SC301321**

### **CXCR4 (NM\_001008540) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CXCR4 (NM_001008540) Human Untagged Clone
Tag:	Tag Free
Symbol:	CXCR4
Synonyms:	CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPY3R; WHIM; WHIMS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001008540 edited  
 ATGTCCATTCTTTGCTCTTTTGCAGATATACTTTCAGATAACTACACCGAGGAAATG  
 GGCTCAGGGGACTATGACTCCATGAAGGAACCCCTGTTCCGTGAAGAAAATGCTAATTTT  
 AATAAAATCTTCTGCCACCATCTACTCCATCATCTTCTTAACTGGCATTGTGGGCAAT  
 GGATTGGTCATCCTGGTCATGGTTACCAGAAGAACTGAGAAGCATGACGGACAAGTAC  
 AGGCTGCACCTGTCAGTGGCCGACCTCCTTTTGTATCAGCTTCCCTTCTGGGCAATT  
 GATGCCGTGGCAAACCTGGTACTTTGGAACTTCCATGCAAGGCAGTCCATGTCATCTAC  
 ACAGTCAACCTCTACAGCAGTGTCTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTG  
 GCCATCGTCCACGCCACCAACAGTCAGAGGCCAAGGAAGCTGTTGGCTGAAAAGTGGTCT  
 TATGTTGGCGTCTGGATCCCTGCCCTCCTGCTGACTATCCCGACTTCATCTTTGCCAAC  
 GTCAGTGAGGCAGATGACAGATATATCTGTGACCGCTTACCCCAATGACTTGTGGGTG  
 GTTGTGTTCCAGTTTTCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTCATCCTG  
 TCCTGCTATTGCATTATCATCTCCAAGCTGTCACACTCCAAGGGCCACCAGAAGCGCAAG  
 GCCCTCAAGACCACAGTCATCCTCATCCTGGCTTTCTTCGCTGTGGCTGCCTTACTAC  
 ATTGGGATCAGCATCGACTCCTTCATCCTCCTGGAATCATCAAGCAAGGGTGTGAGTTT  
 GAGAACACTGTGACAAGTGGATTTCCATCACCGAGGCCCTAGCTTTCTCCACTGTTGT  
 CTGAACCCCATCCTCTATGCTTTCTTGGAGCCAAATTTAAAACCTCTGCCACGACGCA  
 CTCACCTCTGTGAGCAGAGGGTCCAGCCTCAAGATCCTCTCCAAAGGAAAGCGAGGTGGA  
 CATTACTCTGTTCCACTGAGTCTGAGTCTTCAAGTTTCACTCCAGCTAACACAGATGT  
 AAAAGACTTTTTTTTATACGATAAAATACTTTTTTTTAAAGTTACACATTTTTTCAGATA  
 AAAGACTGACCAATATTGTACAGTTTTTATTGCTGTTGGATTTTTGTCTGTGTTTCTT  
 TAGTTTTTGTGAAGTTTAAATTGACTTATTTATATAAATTTTTTTTTCATATTGATGT  
 GTGTCTAGGCAGGACCTGTGGCCAAGTCTTAGTTGCTGTATGCTCGTGGTAGGACTGT  
 AGAAAAGGGAAGTGAACATTCAGAGCGTGTAGTGAATCACGTAAGCTAGAAATGATCC  
 CCAGCTGTTTATGCATAGATAATCTCTCCATTCCCGTGGAACGTTTTTCTGTTCTTAAG  
 ACGTGATTTTGTGTAGAAAGATGGCACTTATAACCAAAGCCCAAAGTGGTATAGAAATGC  
 TGGTTTTTCAGTTTTTCAGGAGTGGGTTGATTTTCAGCACCTACAGTGTACAGTCTTGTATT  
 AAGTTGTTAATAAAAGTACATGTTAACTTAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001008540 unedited  
 NGAGTCAGATTTGTATACCATCACTATAGGCGGCCGGAATTCGCACGAGGATGTCCATT  
 CCTTTGCCCTCTTTGCAGATATACTTTCAGATAACTACACCGAGGAAATGGGCTCAGGG  
 GACTATGACTCCATGAAGGAACCCCTGTTCCGTGAAGAAAATGCTAATTTCAATAAAATC  
 TTCCTGCCACCATCTACTCCATCATCTTCTTAACTGGCATTGTGGGCAATGGATTGGTC  
 ATCCTGGTCATGGTTACCAGAAGAACTGAGAAGCATGACGGACAAGTACAGGCTGCAC  
 CTGTCACTGGCCGACCTCCTCTTGTATCAGCTTCCCTTCTGGGCAAGTGTGCGCGT  
 GCAAACCTGGTACTTTGGGAACCTCCTATGCAAGGCAGTCCATGTCATCTACACAGTCAAC  
 CTCTACAGCAGTGTCTCATCCTGGCCTTCATCAGTCTGGACCGTACCTGGCCATCGTC  
 CACGCCACCAACAGTCAGAGGCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGC  
 GTCTGGATCCCTGCCCTCCTGCTGACTATCCCGACTTCATCTTTGCCAACGTCAGTGAG  
 GCAGATGACAGATATATCTGTGACCGCTTCTACCCCAATGACTTGTGGGTGGTTGTGTTT  
 CAGTTTTCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTCATCCTGTCTGCTAT  
 TGCATTATCATCTCCAAGCTGTACACTCCAAGGCCACCAGAAGCGCCAGGCCCTCAA  
 ACCACAGTCATCCTCATCCTGGNCTTCTTCGCCTGTTGGCTGCCTTACTACNTTGGGATC  
 AGCATCGACTCCTTCATCCTNCTGGAAATCATCAAGCAGGGTGTGAGTTTGGACACTG

<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_001008540 unedited AATGAAGCAATATCTGTGACCGCTTCTACCCCATGACTTGTGGGTGGTTGTGTTCCAGTT TCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTCATCCTGTCCTGCTATTGCAT TATCATCTCCAAGCTGTCACTCCAAGGGCCACCAGAAGCGCAAGGCCCTCAAGACCAC AGTCATCTCATCCTGGCTTTCTCGCCTGTTGGCTGCCTTACTACATTGGGATCAGCAT CGACTCCTTCATCCTCCTGAAAAATCATCAAGCAAGGGTGTGAGTTTGAGAACACTGTGCA CAAGTGGATTTCCATCACCGAGGCCCTAGCTTTTCTTCCACTGTTGTCTGAACCCCATCCT CTATGCTTTCCTTGGAGCCAAATTTAAAACTCTGCCAGCAGCACTCACCTCTGTGAG CAGAGGGTCCAGCCTCAAGATCCTCTCCAAAGGAAAGCGAGGTGGACATTCATCTGTTTT CACTGAACTCTGAGTCTTCAAGTTTTCACTCCAGCTAACACAGATGTAACAAATTTTTT TTAATCGAAAAAATACCTTTTTTGTAAAGAAAAACATTTCCGAAACCCAAACCACGGCCGA GTATAGACACGATTACAACGGGCGAAAGAACACAGAACAAAAGACCACAAAAGAACGAA AAAGGGAAAAACACCAACAGTAGAAAAAGCAGCCCCAACAAACAAAAAACACAACGA CCCCGACCACCGAAAGCAACCAACAAACCAAGGAAGGCGAAAAACCCACCCACAAAA AGTACACTAATTAAGAAACACCCACCCACCCACACCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001008540
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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>	<u><a href="#">NM_001008540.1</a></u> , <u><a href="#">NP_001008540.1</a></u>
<b>RefSeq Size:</b>	1912 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	7852
<b>UniProt ID:</b>	<u><a href="#">P61073</a></u>
<b>Cytogenetics:</b>	2q22.1
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

**Protein Pathways:** Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Leukocyte transendothelial migration

**Gene Summary:** This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1), also known as CXCR4-Lo, differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (a) has a shorter and distinct N-terminus compared to isoform c.