

## Product datasheet for **SC117951**

### **CXCR4 (NM\_003467) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CXCR4 (NM_003467) 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\_003467 edited  
 GAATTCGGCACGAGGGCCGAGGGCCCTGAGTGCTCCAGTAGCCACCGCATCTGGAGAACCA  
 GCGGTTACCATGGAGGGGATCAGTATATACACTTCAGATAACTACACCGAGGAAATGGGC  
 TCAGGGGACTATGACTCCATGAAGGAACCTGTTCCGTGAAGAAAATGCTAATTTCAAT  
 AAAATCTTCTGCCACCATCTACTCCATCATCTTCTTAACTGGCATTGTGGCAATGGA  
 TTGGTCATCCTGGTCATGGGTTACCAGAAGAACTGAGAAGCATGACGGACAAGTACAGG  
 CTGCACCTGTCACTGGCCGACCTCCTTTGTCATCACGCTTCCCTTCTGGGCAGTTGAT  
 GCCGTGGCAAACCTGGTACTTTGGGAACTTCTATGCAAGGCAGTCCATGTCATCTACACA  
 GTCAACCTCTACAGCAGTGCCTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTGGCC  
 ATCGTCCACGCCACCAACAGTCAGAGGCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTAT  
 GTTGGCGTCTGGATCCCTGCCCTCTGCTGACTATTCCCGACTTCATCTTGGCAACGTC  
 AGTGAGGCAGATGACAGATATATCTGTGACCGCTTCTACCCCAATGACTTGTGGTGGTT  
 GTGTTCCAGTTTCAGCACATCATGGTTGGCCTTATCCTGCCTGGTATTGTCATCCTGTCC  
 TGCTATTGCATTATCATCTCAAGCTGTCACACTCCAAGGGCCACCAGAAGCGCAAGGCC  
 CTC AAGACCACAGTCATCCTCATCTGGCTTTCTTCGCCTGTTGGCTGCCTTACTACATT  
 GGGATCAGCATCGACTCCTTCATCCTCCTGGAAATCATCAAGCAAGGGTGTGAGTTTGAG  
 AACACTGTGCACAAGTGGATTTCCATCACCGAGGCCCTAGCTTTCTTCCACTGTTGTCTG  
 AACCCCATCCTCTATGCTTTCCTTGGAGCCAAATTTAAAACCTCTGCCACGACGCACTC  
 ACCTCTGTGAGCAGAGGGTCCAGCCTCAAGATCCTCTCCAAGGAAAGCGAGGTGGACAT  
 TCATCTGTTTCCACTGAGTCTGAGTCTTCAAGTTTCACTCCAGCTAACACAGATGTA  
 AGACTTTTTTTTATACGATAAACTTTTTTTTAAAGTTACACATTTTTCAGATAAAAA  
 GACTGACCAATATTGTACAGTTTTTATTGCTTGTGGATTTTTGTCTTGTGTTTCTTTAG  
 TTTTTGTGAAGTTAATTGACTATTTTATATAAATTTTTTTTGTTCATATTGATGTG  
 GTCTAGGCAGGACCTGTGGCCAAGTTCTTAGTTGCTGTATGTCTCGTGGTAGGACTGTAG  
 AAAAGGGAACCTGAACATTCCAGAGCGTGTAGTGAATCACGTAAAGCTAGAAATGATCCCC  
 AGCTGTTTATGCATAGATAATCTCTCCATTCCCGTGGAAACGTTTTTCTGTTCTTAAAGAC  
 GTGATTTTGTGTAGAAGATGGCACTTATAACCAAAGCCCAAAGTGGTATAGAAATGCTG  
 GTTTTTCAGTTTTCAGGAGTGGGTTGATTTTCAGCACCTACAGTGTACAGTCTTGATTA  
 GTTGTAAATAAAAGTACATGTTAAACTTAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003467 unedited  
 TTAATTTGTATACGACTCACTATAGGGNNCGGCCGCAATTCGGCACGAGGGCCGAG  
 GGCTGAGTGCTCCAGTAGCCACCGCATCTGGAGAACCAGCGGTTACCATGGAGGGGATC  
 AGTATATACACTTCAGATAACTACACCGAGGAAATGGGCTCAGGGGACTATGACTCCATG  
 AAGGAACCCTGTTCCGTGAAGAAAATGCTAATTTCAATAAAAATCTTCTGCCACCATC  
 TACTCCATCATCTTCTTAACTGGCATTGTGGCAATGGATTGGTCATCCTGGTCATGGGT  
 TACCAGAAGAACTGAGAAGCATGACGGACAAGTACAGGCTGCACCTGTCACTGGCCGAC  
 CTCCTCTTTGTCATCACGCTTCCCTTCTGGGCAGTTGATGCCGTGGCAAACCTGGTACTTT  
 GGGAACTCCTATGCAAGGCAGTCCATGTCATCTACACAGTCAACCTCTACAGCAGTGTG  
 CTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTGGCCATCGTCCACGCCACCAACAGT  
 CAGAGGCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGCATCTGGATCCCTGCC  
 CTCCTGCTGACTATCCCGACTTCATCTTTGCCAACGTCAGTGAGGCAGATGACAGATAT  
 ATCTGTGACCGCTCCTACCCCATGACTTGTGGGTGTTGTGTTCCAGTTTCAGCACATAA  
 TGGTTTGGCCTTATCCTGCCTTGTATGGCCATCCTGTCCTGCTATTGCATTATCATCTC  
 CAAGCTGTTACATTCCAGGGGCCACAGAAAGCGCAAGCCCTCAAGACCACAGGCATCCT  
 CATCCTTGCTTTTTTCGCCTGTGGCTGGCTTACTACATTGGGTACAGGATTGACTCCTTA  
 ATCCTCTGGAAAATCAACCAAGGGGTGAG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003467 unedited TGGACCGCGGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTAAGTTAACATGT ACTTTTATTAACAACCTTAATACAAGACTGTACTGTAGGTGCTGAAATCAACCCACTCC TGAAAACCTGAAAACCAGCATTTCTATACCACTTTGGGCTTTGGTTATAAGTGCCATCTT CTACAGCAAAATCACGTCTTAAGAACAGGAAAAACGTTCCACGGGAATGGAGAGATTATC TATGCATAAACACAGCTGGGGATCATTCTAGCTTTACGTGATTCACTACACGCTCTGGAAT G TTCAGTTCCCTTTTCTACAGTCTTACCACGAGACATACAGCAACTAAGAACTTGGCCAC AGGTCCTGCCTAGACACACATCAATATGAAACAAAAAATTTATATAAATAAGTCAAT TAAACTTCACAAAAACTAAAGAAACACAAGACAAAAATCCAACAAGCAATAAAAACTGTA CAATATTGGTCAGTCTTTTATATCTGAAAAATGTGTAACCTAAAAAAGTTATTTATCG TATAAAAAAAGTCTTTTACATCTGTGTAGCTGGAGTAAAACTGAAGACTCAGACTC AGTGGAACAGATGAATGTCCACCTCGCTTTCTTTGGAGAGGATCTTGAGGCTGGACCC TCTGCTCACAGAGGTGAGTGCCTGCTGGGCAAAGGTTTTAAATTTGGCTCCAAGGAAAGC ATAGAGGATGGGGTTTCAACAACAGTGAAGAAAGCTAAGCCCTCGTGATGGAATCCA CTTGTCACAGGGTTCTCAAACCTCACACCCTTGCTTGATGATTCAGNAGGATGAAGGA GTCAATGCTGATCCCAATGTANTAAAGGCAGCCAACAGCGAAAAAGCCAGGATGAAGATG ACTGTGGTCTTGAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003467
<b>Insert Size:</b>	1720 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_003467.2</a> , <a href="#">NP_003458.1</a>
<b>RefSeq Size:</b>	1691 bp

RefSeq ORF:	1059 bp
Locus ID:	7852
UniProt ID:	<a href="#">P61073</a>
Cytogenetics:	2q22.1
Domains:	7tm_1
Protein Families:	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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 3. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform c.</p>