

Product datasheet for **SC328574**

CXCR2 (NM_001168298) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXCR2 (NM_001168298) Human Untagged Clone
Tag:	Tag Free
Symbol:	CXCR2
Synonyms:	CD182; CDw128b; CMKAR2; IL8R2; IL8RA; IL8RB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001557.2
 CTTCAGACTGGTAGGCTCCTCCAGAAGCCATCAGACAGGAAGATGTGAAAATCCCCAGCA
 CTCATCCCAGAATCACTAAGTGGCACCTGTCTGGGCCAAAGTCCCAGGACAGACCTCAT
 TGTTCTCTGTGGGAATACCTCCCCAGGAGGGCATCTGGATTTCCCCTTGAACCCAG
 GTCAGAAGTTTCATCGTCAAGGTTGTTTCATCTTTTTTCTGTCTAACAGCTGTGACT
 ACCACCAACCTTGAGGCACAGTGAAGACATCGGTGGCCACTCCAATAACAGCAGGTAC
 AGCTGCTCTTCTGGAGGTCTCTACAGGTGAAAAGCCAGCGACCCAGTCAGGATTAAG
 TTTACCTCAAAAATGGAAGATTTAACATGGAGAGTGACAGCTTTGAAGATTTCTGGAAA
 GGTGAAGATCTTAGTAATTACAGTTACAGCTCTACCCTGCCCCCTTTTCTACTAGATGCC
 GCCCATGTGAACCAGAATCCCTGGAAATCAACAAGTATTTTGTGGTCATTATCTATGCC
 CTGGTATCTCTGTGAGCCTGTGGGAACTCCCTCGTGATGCTGGTCATCTTATACAGC
 AGGGTCGGCCGCTCCGCTACTGATGTCTACCTGCTGAACCTAGCCTTGGCCGACCTACTC
 TTTGCCCTGACCTTGCCCATCTGGGCCCTCAAGGTGAATGGCTGGATTTTGGCACA
 TTCTGTGCAAGGTGGTCTCACTCCTGAAGGAAGTCAACTTCTATAGTGGCATCTGCTA
 CTGGCCTGCATCAGTGTGGACCGTTACCTGGCCATTGTCCATGCCACACGCACACTGACC
 CAGAAGCGCTACTTGGTCAAATTCATATGTCTCAGCATCTGGGGTCTGTCTTGGCTCTG
 GCCCTGCCTGTCTTACTTTCCGAAGGACCGTCTACTCATCCAATGTTAGCCAGCCTGC
 TATGAGGACATGGGCAACAATACAGCAAAGTGGCGGATGCTGTTACGGATCCTGCCCCAG
 TCCTTTGGCTTCATCGTGCCACTGCTGATCATGCTGTTCTGCTACGGATTCACCCGCGT
 ACGCTGTTAAGGCCACATGGGGCAGAAGCACCAGGCGCATGCGGGTTCATCTTGTCTGTC
 GTCCTCATCTTCTGCTGTGCTGGCTGCCCTACAACCTGGTCTGCTGGCAGACACCCCTC
 ATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCCAATCACATCGACCGGGCTCTG
 GATGCCACCGAGATTCTGGGCATCTTTCACAGCTGCCTCAACCCCTCATCTACGCCTTC
 ATTGGCCAGAAGTTTCGCCATGGACTCCTCAAGATTCTAGCTATACATGGCTTGATCAGC
 AAGGACTCCCTGCCCAAAGACAGCAGGCCCTTCTTTGTTGGCTCTTCTCAGGGCACACT
 TCCACTACTCTTAAGACCTCCTGCCTAAGTGCAGCCCCGTGGGGTTCCTCCCTTCTCTT
 CACAGTCAATCCAAGCCTCATGTCCACTGGTCTTCTTGGTCTCAGTGTCAATGCAGC
 CCCCATTGTGGTACAGGAAGTAGAGGAGGCCAGTCTTACTAGTTCCCTTGCATGGT
 TTAGAAAGCTTGCCTGGTGCCTCACCCCTTGCCATAATTAATATGTCATTTGCTGGAGC
 TCTGCCATCCTGCCCTGAGCCCATGGCACTCTATGTTCTAAGAAGTAAAATCTACAC
 TCCAGTGAGACAGCTCTGCATACTATTAGGATGGCTAGTATCAAAAAGAAAATCAG
 GCTGGCCAACGGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATAAATAAATAAGC
 CGGGCGTGGTGGTGTGAGTGCCTGTAATCACAGCTACTTGGGAGGCTGAGATGGGAGAAATCA
 CTTGAACCCGGGAGGAGGAGGTTGCAGTGTGAGCCGAGATTGTGCCCTGCACTCCAGCCTG
 AGCGACAGTGTGACTCTGTCTCAGTCCATGAAGATGTAGAGGAGAAAAGTGAACCTCTCGA
 GCGTGTGGGGGGGATTGTAATAATGGTGTGACCACTGCAGAAGACAGTATGGCAGCTTT
 CCTCAAACTTTCAGACATAGAATTAACACATGATCCTGCAATTCCTTATAGGAATTGA
 CCCACAAGAAATGAAAGCAGGGACTTGAACCCATATTTGTACACCAATATTCATAGCAGC
 TTATTCACAAGACCCAAAAGGCAGAAGCAACCCAAATGTTTCATCAATGAATGAATGAATG
 GCTAAGCAAAATGTGATATGTACCTAACGAAGTATCCTTCAGCCTGAAAGAGGAATGAAG
 TACTCATACATGTTACAACACGGACGAACCTTGAAAATTTATGTAAGTGAATAAGCC
 AGACATCAACAGATAAATAGTTTATGATTCACCTACATGAGGACTGAGAGTGAACAAA
 TTTACAGAGACAGAAAGCAGAACAGTATTACCAGGGACTGAGGGGAGGGGAGCATGGGA
 AGTGACGGTTAATGGGCACAGGGTTTATGTTTAGGATGTTGAAAAAGTTCTGCAGATAA
 ACAGTAGTGATAGTTGTACCGCAATGTGACTTAATGCCACTAAATGACACTTAAAAATG
 GTTTAAATGGTCAATTTTGTATGTATATTTTATCAATTTAAAAAATAAATAAATAAATAA
 CAAAAGGTATTTAATCACAAGGCTGATTAACCAAGGCTAGAACCACCTGCCTATATT
 TTTTGTAAATGATTTTCATTCATATCTTTTTTTTAAATAAACATTTTTTACTTGGGTGTT
 TAAA
 AA

Restriction Sites:

Please inquire

ACCN:	NM_001168298
Insert Size:	2900 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_001168298.1, NP_001161770.1</u>
RefSeq Size:	2672 bp
RefSeq ORF:	1083 bp
Locus ID:	3579
UniProt ID:	<u>P25025</u>
Cytogenetics:	2q35
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection

Gene Summary:

The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.