

Product datasheet for MC202204

Cxcr4 (NM_009911) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cxcr4 (NM_009911) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cxcr4
Synonyms: b2b220Clo; CD184; Cmkar4; LESTR; PB-CKR; PBSF/SDF-1; Sdf1r
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC031665 sequence for NM_009911
 TGGTGCAGCAGGTAGCAGTGACCCTCTGAGGCGTTTGGTGTCTCCGGTAACCACCACGGCTGTAGAGCGAG
 GTTGGCCATGGAACCGATCAGTGTGAGTATATACACTTCTGATAACTACTCTGAAGAAGTGGGGTCTGGA
 GACTATGACTCCAACAAGGAACCTGCTCCGGGATGAAAACGTCCATTCAATAGGATCTTCTGCCCA
 CCATCTACTTCATCATCTTCTTGACTGGCATAGTCGGCAATGGATTGGTGATCCTGGTCATGGGTTACCA
 GAAGAAGCTAAGGAGCATGACGGACAAGTACCGGCTGCACCTGTGAGTGGCTGACCTCCTTTGTGCATC
 ACACTCCCCTTCTGGGCAGTTGATGCCATGGCTGACTGGTACTTTGGGAAATTTTTGTGAAGGCTGTCC
 ATATCATCTACTGTCAACCTTACAGCAGCGTTCTCATCCTGGCCTTCATCAGCCTGGACCGGTACCT
 CGCCATTGTCCACGCCACCAACAGTCAAAGGCCAAGGAACTGCTGGCTGAAAAGGCAGTCTATGTGGGC
 GTCTGGATCCCAGCCCTCCTCCTGACTATACCTGACTTCATCTTTGCCGACGTGACCCAGGGGGACATCA
 GTCAGGGGGATGACAGGTACATCTGTGACCGCCTTACCCTGATAGCCTGTGGATGGTGGTGTTCATTT
 CCAGCATATAATGGTGGTCTCATCCTGCCCGCATCGTCATCCTCCTGTTACTGCATCATCATCTCT
 AAGCTGTCACTCCAAGGGCCACCAGAAGCGCAAGGCCCTCAAGACGACAGTCATCCTCATCCTAGCTT
 TCTTTGCCTGCTGGCTGCCATATATGTGGGGATCAGCATCGACTCCTTCATCCTTTGGGAGTCATCAA
 GCAAGGATGTGACTTCGAGAGCATTGTGCACAAGTGGATCTCCATCACAGAGGCCCTCGCCTTCTCCAC
 TGTTGCCCTGAACCCATCCTCTATGCCTCCTCGGGGCCAAGTTCAAAGCTCTGCCAGCATGCACTCA
 ACTCCATGAGCAGAGGCTCCAGCCTCAAGATCCTTTCAAAGGAAAGCGGGTGGACACTTTCCTGCTC
 CACGGAGTCAGAATCCTCCAGTTTTCACTCCAGCTAACCTTATGCAAAGACTTATATAATATATATATA
 TATATGATAAAGAACCTTTTTATGTTACACATTTCCAGATATAAGAGACTGACCAGTCTTGTACAGTTT
 TTTTTTTTTTTAATTGACTGTTGGGAGTTTATGTTCTCTAGTTTTTGTGAGGTTTGACTTAATTTATA
 TAAATATTGTTTTTTGTTTGTTCATGTGAATGAGCGTCTAGGCAGGACCTGTGGCCAAGTCTTAGTAG
 CTGTTTATCTGTGTGAGGACTGTAGAAGTGTAGAGGAAGAACTGAACATTCCAGAATGTGTGGTAAAT
 TGAATAAAGCTAGCCGTGATCCTCAGCTGTTGCTGCATAATCTTTCATTCCGAGGAGCACCCACCCCC
 ACCCCACCCCCACCCATTCTTAAATTGTTGGTTATGCTGTGTGATGGTTTGGTTTTTTTTTTGT
 TGTTGTTGTTGTTTTTTTTCTGTAAAAGATGGCACTTAAACCAAGCCTGAAATGGTGGTAGAAATGC
 TGGGGTTTTTTTTGTTTGTGTTTTTTCAGTTTTCAAGAGTAGATTGACTTCAGTCCCTACAAATGTAC
 AGTCTTGATTACATTGTTAATAAAAGTCAATGATAAACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	RsrII-NotI
ACCN:	NM_009911
Insert Size:	1080 bp
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).
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:	BC031665 , AAH31665
RefSeq Size:	1817 bp
RefSeq ORF:	1080 bp
Locus ID:	12767
UniProt ID:	P70658
Cytogenetics:	1 56.43 cM
Gene Summary:	Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation (PubMed:8962122, PubMed:9295051, PubMed:9103415). Involved in the AKT signaling cascade (By similarity). Plays a role in regulation of cell migration, e.g. during wound healing. Acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (By similarity). Involved in hematopoiesis and in cardiac ventricular septum formation (PubMed:9634237, PubMed:9634238, PubMed:9689100). Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells (PubMed:9634237). Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival (PubMed:9634238, PubMed:9689100).[UniProtKB/Swiss-Prot Function]