

Product datasheet for **MR205485**

Cxcr4 (NM_009911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cxcr4 (NM_009911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cxcr4
Synonyms:	b2b220Clo; CD184; Cmkar4; LESTR; PB-CKR; PBSF/SDF-1; Sdf1r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205485 representing NM_009911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAACCGATCAGTGTGAGTATATACACTTCTGATAACTACTCTGAAGAAGTGGGGTCTGGAGACTATG
 ACTCCAACAAGGAACCCGTCTCCGGGATGAAAACGTCCATTTCAATAGGATCTTCTGCCACCACATCTA
 CTTTCATCATCTTCTTACTGGCAGTACGCGCAATGGATTGGTGATCCTGGTCATGGGTACCAGAAGAAG
 CTAAGGAGCATGACGGACAAGTACCGGCTGCACCTGTCAGTGGCTGACCTCCTCTTGTGCATCACACTCC
 CCTTCTGGGCAGTTGATGCCATGGCTGACTGGTACTTTGGGAAATTTTGTGAAGGCTGTCCATATCAT
 CTACACTGTCAACCTCTACAGCAGCGTTTCTATCCTGGCCTTCATCAGCCTGGACCGGTACCTCGCCATT
 GTCCACGCCACCAACAGTCAAAGGCCAAGGAACTGCTGGCTGAAAAGGCAGTCTATGTGGGCGTCTGGA
 TCCCAGCCCTCCTCTGACTATACCTGACTTTCATCTTTGCCGACGTGAGCCAGGGGACATCAGTCAGGG
 GGATGACAGGTACATCTGTGACCGCCTTTACCCGATAGCCTGTGGATGGTGGTGTTCATTCACGAT
 ATAATGGTGGGTCTATCCTGCCCGCATCGTCATCCTCTCCTGTTACTGCATCATCATCTTAAGCTGT
 CACACTCCAAGGGCCACCAGAAGCGCAAGGCCCTCAAGACGACAGTCATCCTCATCCTAGCTTTCTTTGC
 CTGCTGGCTGCCATATTATGTGGGATCAGCATCGACTCCTTCATCCTTTTGGGAGTCATCAAGCAAGGA
 TGTGACTTCGAGAGCATTGTGCACAAGTGGATCTCCATCACAGAGGCCCTCGCCTTCTTCCACTGTTGCC
 TGAACCCCATCCTCTATGCCTTCTCGGGGCCAAGTTCAAAGCTCTGCCAGCATGCACTCAACTCCAT
 GAGCAGAGGCTCCAGCCTCAAGATCCTTTCCAAAGGAAAGCGGGTGGACACTCTCCGTCTCCACGGAG
 TCAGAATCCTCCAGTTTTCACTCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >MR205485 representing NM_009911
 Red=Cloning site Green=Tags(s)

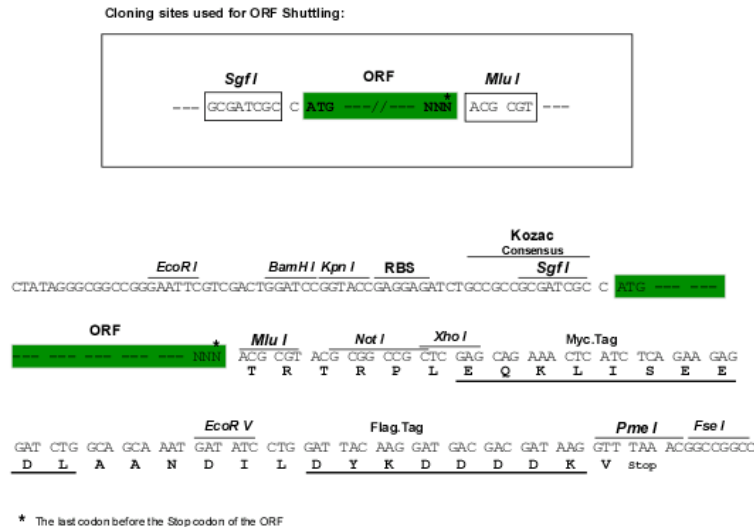
MEPISVSIYTSNYSEEVGSGDYDSNKEPCFRDENVHFNRIFLPTIYFIIFLTGIVGNGLVILVMGYQKK
 LRSMTDKYRLHLSVADLLFVITLPFWADAMADWYFGKFLCKAVHIIYTVNLYSSVLILAFISLDRLAI
 VHATNSQRPRKLLAEKAVYVGVWIPALLLTIPDFIFADVSQGDISQDDRYICDRLYPDSLWMVVFQFQH
 IMVGLILPGIVILSCYCIISKLSHSGHQKRKALKTTVILILAFFACWLPYYVGISIDSFILLGVIKQG
 CDFESIVHKWISITEALAFFHCCLNPILYAF LGAKFKSSAQHALNSMRGSSSLKILSKGKRGGHSSVSTE
 SESSSFHSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009911

ORF Size: 1077 bp

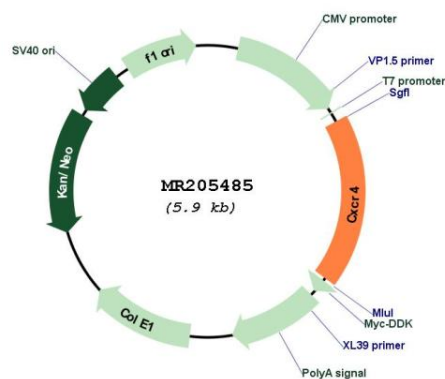
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_009911.2</u>
RefSeq Size:	1821 bp
RefSeq ORF:	1080 bp
Locus ID:	12767
UniProt ID:	<u>P70658</u>
Cytogenetics:	1 56.43 cM
MW:	40.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR205485