

Product datasheet for MR206171

Cx3cl1 (NM_009142) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cx3cl1 (NM_009142) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cx3cl1
Synonyms:	AB030188; ABCD-3; AI848747; CX3C; Cxc3; D8Bwg0439e; Scyd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206171 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCTCGCCGCTCGCGTGGCTGCTGCGCCTGGCCGCGTTCTTCCATTTGTGTACTCTGCTGCCGG
GTCAGCACCTCGGCATGACGAAATGCGAAATCATGTGCGACAAGATGACCTCACGAATCCAGTGGCTTT
GCTCATCCGCTATCAGCTAAACCAGGAGTCTGCGGCAAGCGTGCCATTGTCTGGAGACGACACAGCAC
AGACGCTTCTGTGCTGACCCGAAGGAGAAATGGGTCCAAGACGCCATGAAGCATCTGGATCACCAGGCTG
CTGCCCTCACTAAAAATGGTGGCAAGTTTGAGAAGCGGGTGGACAATGTGACACCTGGGATCACCTTGGC
CACTAGGGGACTGTCCCATCTGCCCTGACAAAGCCTGAATCCGCCACATTGGAAGACCTTGCTTTGGAA
CTGACTACTATTTCCAGGAGGCCAGGGGGACCATGGGGACTTCCCAAGAGCCACCGGCAGCAGTGACCG
GATCATCTCTCAACTCCGAGGCACAGGATGCAGGGCTTACGGCTAAGCCTCAGAGCATTGGAAGTTT
TGAGGGCGGCTGACATCTCCACCACCGTTTGGCCGAGTCTGTGTCTACCAATCTGGATCTAGCTCCTGG
GCTGAGGAAAAAGCTACTGAGTCCCCCTCACTACAGCCCCATCTCTCAGGTGTCCACTACTTCACCTT
CAACCCAGAGGAAAATGTTGGGTCCGAAGGCCAACCCCATGGGTCCAGGGACAGGACCTCAGTCCAGA
GAAGTCTCTAGGGTCTGAGGAGATAAACCCAGTTCATACTGATAATTTCCAGGAGAGGGGGCCTGGCAAC
ACAGTCCACCCCTCAGTGGCTCCCATCTCCTCTGAAGAGACCCAGCCAGAGCTGGTGGCCTCGGGCA
GCCAGGCTCCTAAGATAGAGGAACCCATCCATGCCACTGCAGATCCCCAGAAACTGAGTGTGCTTATCAC
TCTGTCCCCGACACCCAGGCAGCCACAAGGAGGCAGGAGTGGGGCTACTGGCTTTCCTTGGTCTTCTT
TTCTGCCTAGGGGTGGCCATGTTTGCTTACCAGAGCCTTCAGGGCTGTCCCCGAAAATGGCGGGGAA
TGGTAGAAGGCCTCCGCTACGTCCCCGTAGCTGTGGCAGTAACTCATACTGCTGGTGGCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206171 protein sequence
 Red=Cloning site Green=Tags(s)

MAPSPLAWLLRLAAFFHLCTLLPGQHLGMTKCEIMCDKMTSRIPVALLIRYQLNQESCGKRAIVLETTQH
 RRFCADPKEKWVDAMKHLHQAAALTKNGGKFEKRVNDVTPGITLATRGLSPSALTKPESATLEDLAL
 LTTISQEARGTMGTSQEPPAAVTGSSLSTSEAQDAGLTAKPQSIGSFEEADISTTVWVSPAVYQSGSSSW
 AEEKATESPSTTAPSPQVSTTSPSTPEENVGSEGQPPWVQGDLSPEKSLGSEEINPVHTDNFQERGP
 TVHPSVAPISSEETPSPELVASGSQAPKIEEPIHATADPQKLSVLITPVPDTQAATRRQAVGLLAFLL
 FCLGVAMFAYQSLQGCPRKMAGEMVEGLRYVPRSCGSNSYVLPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009142

ORF Size: 1188 bp

OTI Disclaimer: 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:

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: [NM_009142.3](#), [NP_033168.2](#)

RefSeq Size: 3144 bp

RefSeq ORF: 1188 bp

Locus ID: 20312

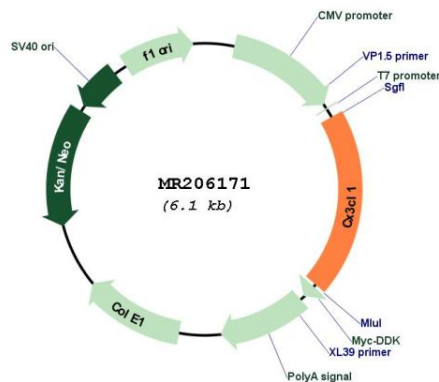
UniProt ID: [O35188](#)

Cytogenetics: 8 46.79 cM

MW: 42.1 kDa

Gene Summary: Acts as a ligand for both CX3CR1 and integrins. Binds to CX3CR1 and to integrins ITGAV:ITGB3 and ITGA4:ITGB1. Can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner. In the presence of CX3CR1, activates integrins by binding to the classical ligand-binding site (site 1) in integrins. In the absence of CX3CR1, binds to a second site (site 2) in integrins which is distinct from site 1 and enhances the binding of other integrin ligands to site 1 (By similarity). The soluble form is chemotactic for T-cells and monocytes, but not for neutrophils. The membrane-bound form promotes adhesion of those leukocytes to endothelial cells. May play a role in regulating leukocyte adhesion and migration processes at the endothelium (PubMed:9177350, PubMed:10382755).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206171