

Product datasheet for **RC200420**

CX3CL1 (NM_002996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CX3CL1 (NM_002996) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CX3CL1
Synonyms:	ABCD-3; C3Xkine; CXC3; CXC3C; fractalkine; neurotactin; NTN; NTT; SCYD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200420 representing NM_002996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGATATCTCTGTCTGTGGCTGCTCCGCTTGGCCACCTTCTGCCATCTGACTGTCCTGCTGGCTG
GACAGCACCGGTGTGACGAAATGCAACATCACGTGCAGCAAGATGACATCAAAGATACCTGTAGCTTT
GCTCATCCACTATCAACAGAACCAGGCATCATGCGCAAACGCGCAATCATCTTGGAGACGAGACAGCAC
AGGCTGTTCTGTGCCGACCCGAAGGAGCAATGGGTCAAGGACCGATGCAGCATCTGGACCGCCAGGCTG
CTGCCCTAACTCGAAATGGCGGCACCTTCGAGAAGCAGATCGGGCAGGTGAAGCCAGGACCACCCCTGC
CGCCGGGGGAATGGACGAGTCTGTGGTCTGGAGCCCGAAGCCACAGGCGAAAGCAGTAGCCTGGAGCCG
ACTCCTTCTTCCAGGAAGCACAGAGGGCCCTGGGGACCTCCCCAGAGCTGCCGACGGGCGTGACTGGTT
CCTCAGGGACAGGCTCCCCCGACGCCAAAGGCTCAGGATGGAGGGCCTGTGGGCACGGAGCTTTTCCG
AGTGCCTCCCGTCTCCACTGCCGCCACGTGGCAGAGTTCTGTCTCCCAACCACTGGGCCAGCCTCTGG
GCTGAGGCAAAGACCTCTGAGGCCCGTCCACCAGGACCCCTCCACCAGGCTCCACTGCGTCTCTCC
CAGCCCCAGAGGAGAATGCTCCGTCTGAAGGCCAGCGTGTGTGGGTGAGGACAGAGCCCCAGGCCAGA
GAACTCTCTGGAGCGGGAGGAGATGGGTCCCGTCCAGCGCACACGGATGCCTTCCAGGACTGGGGCCT
GGCAGCATGGCCACGTCTCTGTGGTCCCTGTCTCCTCAGAAGGGACCCAGCAGGGAGCCAGTGGCTT
CAGGCAGCTGGACCCCTAAGGCTGAGGAACCCATCCATGCCACCATGGACCCCGAGAGGCTGGGCGTCT
TATCACTCTGTCCCTGACGCCAGGCTGCCACCCGGAGGACGGCGGTGGGGCTGCTGGCCTTCTTGGC
CTCCTTCTGCTGGGGTGGCCATGTTACCTACCAGAGCCTCCAGGCTGCCCTCGAAAGATGGCAG
GAGAGATGGCGGAGGCCCTTCGTACATCCCCGGAGCTGTGGTAGTAATTCATATGTCCTGGTCCCGT
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200420 representing NM_002996
Red=Cloning site Green=Tags(s)

MAPISLSWLLRLATFCHLTVLLAGQHGGVTKCNITCSKMTSKIPVALLIHYQQNQASCGRRAIILETRQH
 RLF CADPKEQWVKDAMQHLDRQAAALTRNGGTFEKQIGEVKPRTPAAGGMDESIVLEPEATGESSSLEP
 TPSSQEAQRALGTSPELPTGVTGSSGTRLPPTPKAQDGGPVGTELFRVPPVSTAATWQSSAPHQPGPSLW
 AEAKTSEAPSTQDPSTQASTASSPAPEENAPSEGQRVWQGGQSPRPENSLEREEMGPVPAHTDAFQDWGP
 GSMHVSVVPVSSEGTPSREPVASGSWTPKAEETIHATMDPQRLGVLITPVPDAQAATRRQAVGLLAFGLG
 LLFCLGVAMFTYQSLQGCPKRMAGEMAELRYIPRSCGSNSYVLVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_002996

ORF Size: 1191 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_002996.6](#)

RefSeq Size: 3304 bp

RefSeq ORF: 1194 bp

Locus ID: 6376

UniProt ID: [P78423](#)

Cytogenetics: 16q21

Domains: IL8

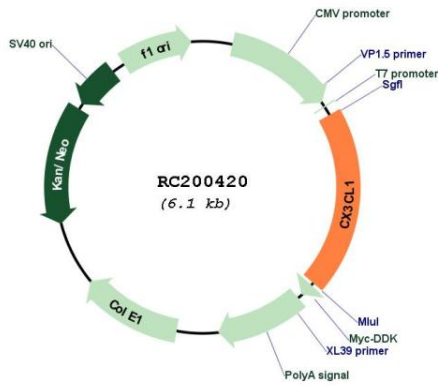
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction

MW: 42.7 kDa

Gene Summary: This gene belongs to the CX3C subgroup of chemokines, characterized by the number of amino acids located between the conserved cysteine residues. This is the only member of the CX3C subgroup, which contains three amino acids between cysteine residues, resulting in a Cys-X-X-X-Cys configuration. The encoded protein contains an extended mucin-like stalk with a chemokine domain on top, and exists in both a membrane-anchored form where it acts as a binding molecule, or, in soluble form, as a chemotactic cytokine. The mature form of this protein can be cleaved at the cell surface, yielding different soluble forms that can interact with the G-protein coupled receptor, C-X3-C motif chemokine receptor 1 gene product. This gene plays a role in a wide range of diseases, including cancer, vasculitis, neuropathies, atherosclerosis, inflammatory diseases, and in human immunodeficiency virus infections. [provided by RefSeq, Sep 2017]

Product images:



Circular map for RC200420