

## Product datasheet for **RG207022**

### **CX3CR1 (NM\_001337) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CX3CR1 (NM_001337) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CX3CR1
Synonyms:	CCRL1; CMKBRL1; CMKDR1; GPR13; GPRV28; V28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207022 representing NM_001337 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCAGTTCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGTTATATTG  
GGGACATCGTGGTCTTTGGGACTGTGTTCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTGGT  
GGGAAATTTGTTGGTAGTGTTCCTCACCAACAGCAAGAAGCCCAAGAGTGTCACCGACATTTACCTC  
CTGAACCTGGCCTTGCTGATCTGCTGTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATG  
AAAAGGGCCTCCACAATGCCATGTGCAAAATCACTACCGCCTTCTTTCATCGGCTTTTTTGAAGCAT  
ATTCTTCATCACCGTCATCAGCATTGATAGGTACCTGGCCATCGTCCTGGCCGCAACTCCATGAACAAC  
CGGACCGTGCAGCATGGCGTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCC  
AGTTTCATGTTACAAAAGCAGAAAGAAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTG  
GCCCCGTGCTCCGCAATGTGGAACAAAATTTTCTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGC  
TACTTCAGAATCATCCAGACGCTGTTTTCTGCAAGAACCACAAGAAAGCCAAAGCCATTAAGTATCC  
TCTGGTGGTCATCGTGTTCCTCTTCTGGACACCCACAACGTTATGATTTTCTGGAGACGCTTAA  
GCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTGAGGCTGGCCCTCAGTGTGACTGAGACG  
GTTGCATTTAGCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCTGGGGAGAAGTTCAGAAGATACC  
TTTACCACCTGTATGGAAATGCCTGGCTGCTGCTGTGGGCGCTCAGTCCACGTTGATTTCTCCTCATC  
TGAATCACAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTACTTACCACACGAGTGATGGAGAT  
GCATTGCTCCTTCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207022 representing NM\_001337  
 Red=Cloning site Green=Tags(s)

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYL  
 LNLALSDLLFVATLPFWTHYLINЕКLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMNN  
 RTVQHGVTISLGVWAAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWVPLRVNFTNFGFLPLLIMSVC  
 YFRIIQTLFSCKNHKKAKAIKILLVVI VFFLFWTPYNVMI FLET LKLYDFFPSCDMRKDLRLALSVTET  
 VAFSHCCLNPLIYAFAGEKFRRYLYHLYGKCLAVLCGRSVHVDFSSSESQSRHGSVYLSNFTYHTSDGG  
 ALLLL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001337

**ORF Size:** 1065 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\\_001337.4](#)

**RefSeq Size:** 3108 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 1524

**UniProt ID:** [P49238](#)

**Cytogenetics:** 3p22.2

**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

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

**Gene Summary:** Fractalkine is a transmembrane protein and chemokine involved in the adhesion and migration of leukocytes. The protein encoded by this gene is a receptor for fractalkine. The encoded protein also is a coreceptor for HIV-1, and some variations in this gene lead to increased susceptibility to HIV-1 infection and rapid progression to AIDS. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

## Product images:



Circular map for RG207022