

## Product datasheet for **RG218227**

### CCXCR1 (XCR1) (NM\_005283) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCXCR1 (XCR1) (NM_005283) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCXCR1
Synonyms:	CCXCR1; GPR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218227 representing NM_005283 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCCTCAGGCAACCCAGAGAGCACCACCTTTTTTACTATGACCTTCAGAGCCAGCCGTGTGAGA  
ACCAGGCCTGGGTCTTTGCTACCCTCGCCACCACTGTCTATACTGCCTGGTGTCTCTCAGCCTAGT  
GGGCAACAGCCTGGTCTGTGGTCTGGTGAAGTATGAGAGCCTGGAGTCCCTACCAACATCTTCATC  
CTCAACCTGTGCCTCTCAGACCTGGTGTTCGCTGCTTGTGCCTGTGTGGATCTCCCCATACCACTGGG  
GCTGGGTGCTGGGAGACTTCTCTGCAAACCTCCTCAATATGATCTTCTCCATCAGCCTCTACGGCAGCAT  
CTTCTTCTGACCATCATGACCATCCACCCTACCTGTGCGTAGTGAGCCCTCTCCACCTGCGCGTC  
CCCACCCTCCGCTGCCGGGTGCTGGTGACCATGGCTGTGTGGGTAGCCAGCATCCTGTCTCCATCTCG  
ACACCATCTCCACAAGGTGCTTTCTTCGGGCTGTGATTATCCGAACCTCACGTGGTACCTCACCTCCGT  
CTACCAGCACAACCTCTTCTTCTGCTGTCCCTGGGGATTATCCTGTTCTGCTACGTGGAGATCCTCAGG  
ACCCTGTTCCGCTCAGCTCCAAGCGGCCACCGCACGGTCAAGCTCATCTTCGCCATCGTGGTGGCT  
ACTTCTCAGTGGGTCCCTACAACCTCACCTGTTTCTGCAGACGCTGTTTCGGACCCAGATCATCCG  
GAGCTGCGAGGCCAAACAGCAGCTAGAATACGCCCTGCTCATCTGCCGCAACCTCGCCTTCTCCACTGC  
TGCTTTAACCCGGTGTCTATGTCTTCTGTTGGGGTCAAGTCCGCACACACCTGAAACATGTTCTCCGGC  
AGTTCGTGTTCTGCCGGCTGCAGGCACCCAGCCAGCCTCGATCCCCACTCCCTGGTGCCTTCGCTA  
TGAGGGCGCCTCTTCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218227 representing NM\_005283  
 Red=Cloning site Green=Tags(s)

MESSGNPESTTFFYYDLQSQPCENQAWVFATLATTVLYCLVFLLSLVGNLSLVLWLVKYESLESLESLTNIFI  
 LNLCLSDLVFACLLPVWISPHYHWGVLGDFLCKLLNMIFSLYGSIFFLTIMTIHRYLSVVSPLSTLRV  
 PTLRRCRVLVTMAVWVASILSSILDTIFHKVLSGGDYSELTWYLT SVYQHNLFFLLSLGILFCYVEILR  
 TLFRRSRKRRHRVTKLIFAIVVAYFLSWGPYNFTLFLQTLFRTQIIRSCEAKQOLEYALLICRNLAFSHC  
 CFNPVLYVYFVGKFRTHLKHVLRQFWFCRLQAPSPASIPHSPGAFAYEGASFY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005283

**ORF Size:** 999 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\\_005283.2](#), [NP\\_005274.1](#)

**RefSeq Size:** 1373 bp

**RefSeq ORF:** 1002 bp

**Locus ID:** 2829

**UniProt ID:** [P46094](#)

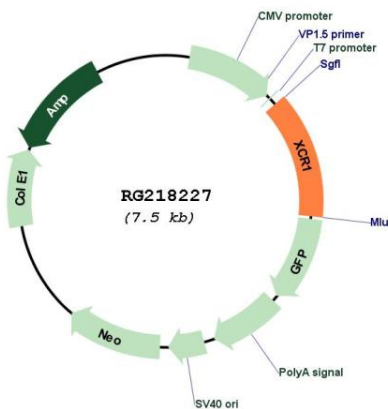
**Cytogenetics:** 3p21.31

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

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

**Gene Summary:** The protein encoded by this gene is a chemokine receptor belonging to the G protein-coupled receptor superfamily. The family members are characterized by the presence of 7 transmembrane domains and numerous conserved amino acids. This receptor is most closely related to RBS11 and the MIP1-alpha/RANTES receptor. It transduces a signal by increasing the intracellular calcium ions level. The viral macrophage inflammatory protein-II is an antagonist of this receptor and blocks signaling. Several alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Apr 2020]

**Product images:**



Circular map for RG218227