

Product datasheet for **RG213050**

CXCR5 (NM_001716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXCR5 (NM_001716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CXCR5
Synonyms:	BLR1; CD185; MDR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213050 representing NM_001716 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTACCCGCTAACGCTGGAATGGACCTCGAGAACCTGGAGGACCTGTTCTGGAACTGGACAGAT
TGGACAATAACGACACCTCCCTGGTGGAAAATCATCTCTGCCCTGCCACAGAGGGGCCCTCATGGC
CTCCTTCAAGGCCGTGTTCTGTCGCCGTGGCCTACAGCCTCATCTTCTCTGGCGTGATCGGCAACGTC
CTGGTGTGGTGATCCTGGAGCGGCACCGCAGACACGCAGTTCACGGAGACCTTCTGTCCACCTGG
CCGTGGCCGACCTCCTGTGGTCTTCATCTTGCCCTTTGCCGTGGCCGAGGGCTCTGTGGCTGGGTCT
GGGACCTTCTCTGCAAACTGTGATTGCCCTGCACAAAGTCAACTTCTACTGCAGCAGCTGCTCCTG
GCCTGCATCGCCGTGGACCGCTACCTGGCCATTGTCCACGCCGTCCATGCCTACCGCCACCGCCGCTCC
TCTCCATCCACATCACCTGTGGGACCATCTGGCTGGTGGGCTTCTCCTTGCCCTTGGCAGAGATTCTTT
CGCCAAAGTCAGCCAAGGCCATCACAACAACCTCCCTGCCACGTTGCACCTTCTCCCAAGAGAACCAAGCA
GAAACGCATGCCTGGTTACCTCCCGATTCTCTACCATGTGGCGGGATTCTGTGCCATGCTGGTGA
TGGGCTGGTGCTACGTGGGGTAGTGACAGGTTGCGCCAGGCCAGCGGCCCTCAGCGGCAGAAGGC
AGTCAGGTTGGCCATCCTGGTGACAAGCATCTTCTCTCTGCTGGTACCCTACCACATCGTCATCTTC
CTGGACACCTGGCGAGGCTGAAGGCCGTGGACAATACCTGCAAGCTGAATGGCTCTCTCCCGTGGCCA
TCACCATGTGTAGTTCTGGCCCTGGCCACTGCTGCCTCAACCCCATGCTCTACACTTTCGCCGGCGCT
GAAGTTCCGCAGTGACCTGTCGCGGCTCCTGACGAAGCTGGGCTGTACCGGCCCTGCCTCCCTGTGCCAG
CTCTCCCTAGCTGGCGAGGAGCAGTCTCTCTGAGTCAGAGAATGCCACCTCTCTCACCAGTTT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213050 representing NM_001716
 Red=Cloning site Green=Tags(s)

MNYPLTLEMDLENLEDLFWELDRLDNYNDTSLVENHLCPATEGPLMASFKAVFVPVAYSILFLLGVIGNV
 LVLVILERHRQTRSSTETFLFHLAVADLLLVFILPFAVAEGSVGVWLGTFLCKTVIALHKVNFYCSSLLL
 ACIAVDRYLAIHVAVHAYRHRRLLSIHITCGTIWLVGFLLALPEILFAKVSQGHNNSLPRCTFSQENQA
 ETHAWFTSRFLYHVAGFLLPMLVMGWCYVGVVHRLRQAQRPRQKAVRVAILVTSIFFLCWSPYHIVIF
 LDTLARLKAVDNTCKLNGSLPVAITMCEFLGLAHCCLNPMLYTFAGVKFRSDLSRLLTKLGCTGPASLCQ
 LFPSWRRSSLSESENATSLTTF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001716

ORF Size: 1116 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:

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_001716.5](#)

RefSeq Size: 2824 bp

RefSeq ORF: 1119 bp

Locus ID: 643

UniProt ID: [P32302](#)

Cytogenetics: 11q23.3

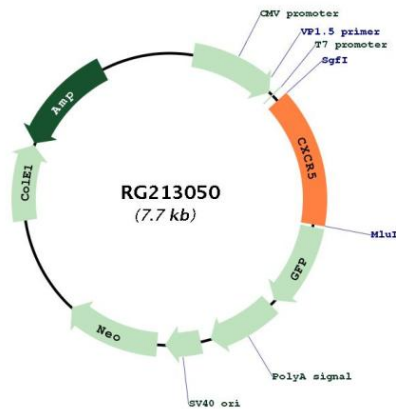
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

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

Gene Summary: This gene encodes a multi-pass membrane protein that belongs to the CXC chemokine receptor family. It is expressed in mature B-cells and Burkitt's lymphoma. This cytokine receptor binds to B-lymphocyte chemoattractant (BLC), and is involved in B-cell migration into B-cell follicles of spleen and Peyer patches. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG213050