

Product datasheet for **RG202069**

CXCR4 (NM_003467) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CXCR4 (NM_003467) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CXCR4 |
| Synonyms: | CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPY3R; WHIM; WHIMS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG202069 representing NM_003467 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGGATCAGTATATACACTTCAGATAACTACACCGAGGAAATGGGCTCAGGGGACTATGACTCCA
TGAAGGAACCTGTTCCGTGAAGAAAATGCTAATTTCAATAAAATCTTCCTGCCACCCTACTCCAT
CATCTTCTTAAGTGGCATTGTGGCAATGGATTGGTCACTGGTTCATGGGTTACCAGAAGAACTGAGA
AGCATGACGGACAAGTACAGGCTGCACCTGTCACTGGCCGACCTCCTCTTGTATCAGCTTCCCTTCT
GGCAGTTGATGCCGTGGCAAATGGTACTTTGGGAATTCCTATGCAAGGCAGTCCATGTCATCTACAC
AGTCAACCTCTACAGCAGTGTCTCATCTGGCCTTCATCAGTCTGGACCGCTACCTGGCCATCGTCCAC
GCCACCAACAGTCAGAGGCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGCGTCTGGATCCCTG
CCCTCCTGCTGACTATCCCGACTTCATCTTTGCCAACGTCAGTGAGGCAGATGACAGATATATCTGTGA
CCGCTTCTACCCAATGACTTGTGGGTGGTGTGTTCCAGTTTCAGCACATCATGTTGGCCTTATCCTG
CCTGGTATTGTATCCTGTCTGCTATTGCATTATCATCTCCAAGCTGTCACACTCCAAGGGCCACCAGA
AGCGCAAGGCCCTCAAGACCACAGTCACTCCTCATCTGGCTTCTTCGCCTGTTGGCTGCCTTACTACAT
TGGGATCAGCATCGACTCCTTCACTCCTGGAATCATCAAGCAAGGGTGTGAGTTTGAGAACACTGTG
CACAAGTGGATTCCATCACCAGGGCCCTAGCTTTCTTCCACTGTTGTCTGAACCCATCCTCTATGCTT
TCCTTGGAGCCAAATTTAAAACCTCTGCCAGCACGCACTCACCTCTGTGAGCAGAGGGTCCAGCCCTCAA
GATCCTCTCAAAGGAAAGCGAGGTGGACATTCATCTGTTTCCACTGAGTCTGAGTCTTCAAGTTTTCAC
TCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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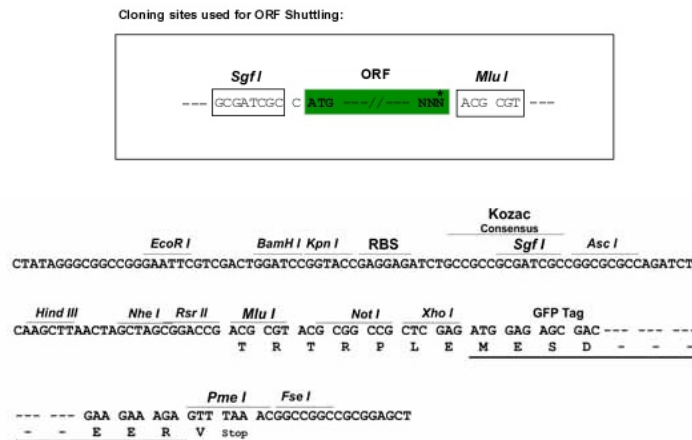
Protein Sequence: >RG202069 representing NM_003467
 Red=Cloning site Green=Tags(s)

MEGISIYTS DNYTEEMGSGDYDSMKEPCFREANFNKIFLPTIYSIIIFLTGIVGNGLVILVMGYQKCLR
 SMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLVYSSVLILAFISLDRYLAIVH
 ATNSQRPRKLLAEKVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYPNDLVVVVFQFHIMVGLIL
 PGIVILSCYCIISKLSHSGHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEI IKQGFENTV
 HKWISITEALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESSESSFH
 SS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003467

ORF Size: 1056 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_003467.3](#)

RefSeq Size: 1691 bp

RefSeq ORF: 1059 bp

Locus ID: 7852

UniProt ID: [P61073](#)

Cytogenetics: 2q22.1

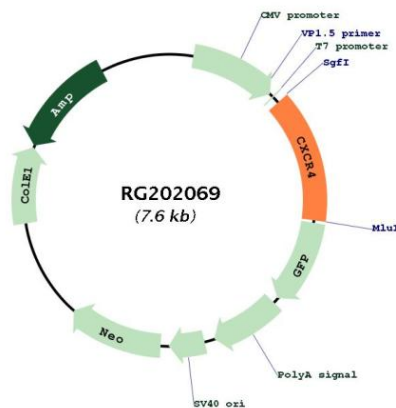
Domains: 7tm_1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

Protein Pathways: Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Leukocyte transendothelial migration

Gene Summary: This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202069