

Product datasheet for **RG214548**

CXCR4 (NM_001008540) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXCR4 (NM_001008540) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CXCR4
Synonyms:	CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; NPYY3R; WHIM; WHIMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214548 representing NM_001008540 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCATTCCCTTGCCTCTTTGCAGATATACACTTCAGATAACTACACCGAGGAAATGGGCTCAGGGG
ACTATGACTCCATGAAGGAACCTGTTCCGTGAAGAAAATGCTAATTTCAATAAAATCTTCCTGCCAC
CATCTACTCCATCATCTTCTAACTGGCATTGTGGGCAATGGATTGGTCATCCTGGTCATGGGTTACCG
AAGAACTGAGAAGCATGACGGACAAGTACAGGCTGCACCTGTCAGTGGCCGACCTCCTCTTTGTCATCA
CGCTTCCCTTCTGGGCAGTTGATGCCGTGGCAAACCTGGTACTTTGGGAACTTCTATGCAAGGCAGTCCA
TGTCATCTACACAGTCAACCTCTACAGCAGTGTCTCATCCTGGCCTTCATCAGTCTGGACCGCTACCTG
GCCATCGTCCACGCCACCAACAGTCAGAGGCCAAGGAAGCTGTTGGCTGAAAAGGTGGTCTATGTTGGCG
TCTGGATCCCTGCCCTCCTGCTGACTATCCCGACTTCATCTTTGCCAAGTCAGTGAGGCAGATGACAG
ATATATCTGTGACCGCTTCTACCCCAATGACTTGTGGGTGGTGTGTTCCAGTTTCAGCACATCATGGTT
GGCCTTATCCTGCCTGGTATTGTCATCCTGTCTGCTATTGCATTATCATCTCCAAGCTGTCACACTCCA
AGGGCCACCAGAAGCGCAAGGCCCTCAAGACCACAGTCATCCTCATCCTGGCTTCTTCGCTGTTGGCT
GCCTTACTACATTGGGATCAGCATCGACTCCTTCATCCTCCTGGAATCATCAAGCAAGGTGTGAGTTT
GAGAACACTGTGCACAAGTGGATTTCCATCACCGAGGCCCTAGCTTTCTCCACTGTTGTCTGAACCCCA
TCCTCTATGCTTTCCTTGGAGCCAAATTTAAAACCTCTGCCAGCACGCACTCACCTCTGTGAGCAGAGG
GTCCAGCCTCAAGATCCTCTCAAAGGAAAGCGAGGTGGACATTATCTGTTTCCACTGAGTCTGAGTCT
TCAAGTTTTCACTCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214548 representing NM_001008540
 Red=Cloning site Green=Tags(s)

MSIPLPLLQIYTS DNYTEEMSGDYDSMKEPCFREANANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQ
 KKLRSMTDKYRLHL SVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL YSSVLILAFISLDRYL
 AIVHATNSQRPRKLLAEKVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFQHIMV
 GLILPGIVILSCYCIISKL SHSKGHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEI IKQGEF
 ENTVHKWISITEALAFFHCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTES
 SSFHSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008540

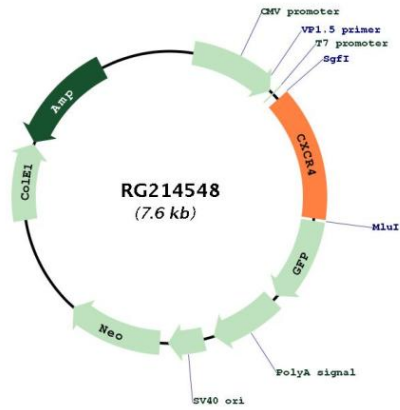
ORF Size: 1068 bp

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:	<ol style="list-style-type: none">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_001008540.2
RefSeq Size:	1912 bp
RefSeq ORF:	1071 bp
Locus ID:	7852
UniProt ID:	P61073
Cytogenetics:	2q22.1
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 RG214548