

Product datasheet for **RG221234**

CCR2 (NM_000647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCR2 (NM_000647) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCR2
Synonyms:	CC-CKR-2; CCR2A; CCR2B; CD192; CKR2; CKR2A; CKR2B; CMKBR2; MCP-1-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221234 representing NM_000647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCACATCTCGTTCTCGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTCACCACCTTTT
TTGATTATGATTACGGTGTCCCTGTCTATAAATTTGACGTGAAGCAAATTTGGGGCCCACTCCTGCCTCC
GCTCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGCAACATGCTGGTCGTCCTCATCTTAATAAATCGC
AAAAAGCTGAAGTCTTGACTGACATTTACCTGCTCAACCTGGCCATCTCTGATCTGCTTTTTCTTATTA
CTCTCCCATTGTGGGCTCACTCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCAC
AGGGCTGTATCACATCGGTTATTTTGGCGAATCTTCTTCATCATCCTCCTGACAATCGATAGATACCTG
GCTATTGTCCATGCTGTGTTTGCTTTAAAAGCCAGGACGGTCACCTTTGGGGTGGTGACAAGTGTATCA
CCTGGTTGGTGGCTGTGTTTGCTTCTGTCCCAGGAATCATCTTTACTAAATGCCAGAAAGAAGATTCTGT
TTATGTCTGTGGCCCTTATTTTCCACGAGGATGGAATAATTTCCACACAATAATGAGGAACATTTTGGGG
CTGGTCTGCCGCTGCTCATCATGGTCATCTGCTACTCGGAATCCTGAAAACCTGCTTCGGTGTGCAA
ACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTACCATCATGATTGTTTACTTTCTCTTCTGGAC
TCCCTATAATATTGTCATTCTCCTGAACACCTTCCAGGAATCTTCGGCCTGAGTAACTGTGAAAGCACC
AGTCAACTGGACCAAGCCAGCAGGTGACAGAGACTCTTGGGATGACTCACTGTCATCAATCCCATCA
TCTATGCCTTCGTTGGGGAGAAGTTCAGAAGCCTTTTTCACATAGCTCTTGGCTGTAGGATTGCCCCACT
CCAAAAACCAGTGTGTGGAGTCCAGGAGTGAGACCAGGAAAGAATGTGAAAGTACTACACAAGGACTC
CTCGATGGTCTGTGAAAAGGAAAGTCAATTGGCAGAGCCCTGAAAGCCAGTCTTCAGGACAAAGAAGGAG
CC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221234 representing NM_000647
 Red=Cloning site Green=Tags(s)

MLSTSRSRFIRNTNESGEEVTTFFDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGFVGNMLVVLILINC
 KKLKCLTDIYLLNLAISDLLFLITLPLWAHSAANEWVFGNAMCKLFTGLYHIGYFGGIFFIILLTIDRYL
 AIVHAVFALKARTVTFGVVTSVITWLVAVFASVPGIIFTKCQKEDSVYVCGPYFPRGWNNFHTIMRNILG
 LVLPLLIMVICYSGILKTLRLCRNEKKRHRRAVRVIFTIMIVYFLFWTPYINIVILLNTFQEFFGLSNCEST
 SQLDQATQVTETLGMTHCCINPIIYAFVGEKFRSLFHIALGCRIAPLQKPCVCGGPGVPRGKNVKVTTQGL
 LDGRGKGKSGRAPEASLQDKEGA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000647

ORF Size: 1122 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_000647.3](#), [NP_000638.1](#)

RefSeq Size: 2273 bp

RefSeq ORF: 1124 bp

Locus ID: 1231

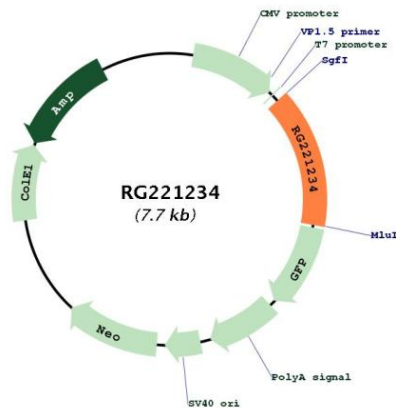
Cytogenetics: 3p21.31

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes two isoforms of a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The receptors encoded by this gene mediate agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This gene is located in the chemokine receptor gene cluster region. Two alternatively spliced transcript variants are expressed by the gene. [provided by RefSeq]

Product images:



Circular map for RG221234