

Product datasheet for **RG225538**

CCR2 (NM_001123396) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCR2 (NM_001123396) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCR2
Synonyms:	CC-CKR-2; CCR-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:	>RG225538 representing NM_001123396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCACATCTCGTTCTCGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTCACCACCTTTT
TTGATTATGATTACGGTGCTCCCTGTCAATAATTTGACGTGAAGCAAATGGGGCCCACTCCTGCCTCC
GCTCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGCAACATGCTGGTCGTCCTCATCTTAATAAAGTGC
AAAAAGCTGAAGTGCTTGACTGACATTTACCTGCTCAACCTGGCCATCTCTGATCTGCTTTTTCTTATTA
CTCTCCATTGTGGGCTCACTCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCAC
AGGGCTGTATCAGATCGTTATTTGGCGAATCTTCTCATCATCCTCCTGACAATCGATAGATACCTG
GCTATTGTCCATGCTGTGTTTGCTTTAAAAGCCAGGACGGTCACCTTTGGGGTGGTGACAAGTGTGATCA
CCTGGTTGGTGGCTGTGTTGCTTCTGTCCCAGGAATCATCTTTACTAAATGCCAGAAAGAAGATTCTGT
TTATGTCTGTGGCCCTTATTTCCACGAGGATGGAATAATTTCCACACAATAATGAGGAACATTTGGGG
CTGGTCTGCCGCTGCTCATCATGGTCATCTGCTACTCGGAATCCTGAAAACCTGCTTCGGTGTGCAA
ACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTACCATCATGATTGTTTACTTTCTCTTCTGGAC
TCCCTATAATATTGTCATTCTCCTGAACACCTTCCAGGAATCTTCGGCCTGAGTAACTGTGAAAGCACC
AGTCAACTGGACCAAGCCAGCAGGTGACAGAGACTCTTGGGATGACTCACTGTCATCAATCCCATCA
TCTATGCCTTCGTTGGGAGAAGTTCAGAAGGTATCTCTCGGTGTTCTTCGAAAGCACATCACCAGCG
CTTCTGAAACAATGTCCAGTTTCTACAGGGAGACAGTGGATGGAGTCAACAAACACGCCTTCC
ACTGGGAGCAGGAAGTCTCGGCTGTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225538 representing NM_001123396
 Red=Cloning site Green=Tags(s)

MLSTSRSRFIRNTNESGEEVTTFFDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGFVGNMLVVLILINC
 KKLKCLTDIYLLNLAISDLLFLITLPLWAHSAANEVWVFGNAMCKLFTGLYHIGYFGGIFFIILLTIDRYL
 AIVHAVFALKARTVTFGVVTSVITWLVAVFASVPGIIFTKCQKEDSVYVCGPYFPRGWNNFHTIMRNILG
 LVLPLLIMVICYSGILKTLRLCRNEKRRHRAVRVIFTIMIVYFLFWTPYINIVILLNTFFQEFFGLSNCEST
 SQLDQATQVTETLGMTHCCINPIIYAFVGEKFRRYLSVFFRKHITKRFCQKQCPVFYRETVDGVTSTNTPS
 TGEQEVSAAGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001123396

ORF Size: 1080 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_001123396.4](#)

RefSeq Size: 2335 bp

RefSeq ORF: 1083 bp

Locus ID: 729230

UniProt ID: [P41597](#)

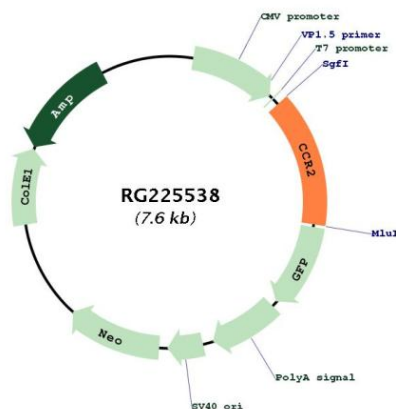
Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Transmembrane

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

Gene Summary: The protein encoded by this gene is 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 encoded protein mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This protein can also be a coreceptor with CD4 for HIV-1 infection. This gene is located in the chemokine receptor gene cluster region of chromosome 3. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG225538