

## Product datasheet for **RG202459**

### Chemokine Receptor D6 (ACKR2) (NM\_001296) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chemokine Receptor D6 (ACKR2) (NM_001296) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chemokine Receptor D6
Synonyms:	CCBP2; CCR9; CCR10; CMKBR9; D6; hD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202459 representing NM_001296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCCACTGCCTCTCCGCAGCCACTGCCACTGAGGATGCCGATTCTGAGAATAGCAGCTTCTATT  
ACTATGACTACCTGGATGAAGTGGCCTTCATGCTCTGCAGGAAGGATGCAGTGGTGTCTTTGGCAAAGT  
CTTCTCCAGTCTTCTATAGCCTGATTTTTGTGTTGGCCTCAGCGGAACTCCTTCTTCTCATGGTC  
TTGCTCCGTTACGTGCCCTCGCAGGCGGATGTTGAGATCTATCTGCTGAATCTGGCCATCTCCAACCTTC  
TGTTTCTGGTGACTGCCCTTCTGGGGCATCTCCGTGGCCTGGCATTGGGTCTTCGGGAGTTTCTTG  
CAAGATGGTGAGCACTTTTATACTATTAACCTTTACAGTGGCATCTTTTCATTAGCTGCATGAGCCTG  
GACAAGTACCTGGAGATCGTTATGCTCAGCCCTACCACAGGCTGAGGACCCGGGCAAGAGCCTGCTCC  
TTGCTACCATAGTATGGGCTGTGTCCCTGGCCGTCTCCATCCCTGATATGGTCTTTGTACAGACACATGA  
AAATCCCAAGGGTGTGTGGAAGTCCACGCAGATTTCCGGCGGCATGGGACCATTTGGAAGCTCTTCCTC  
CGCTTCCAGCAGAACCTCCTAGGGTTTCTCTTCCACTCCTTGCCATGATCTTCTTACTCCCGTATTG  
GTTGTGCTTGGTGAGGCTGAGGCCCGCAGGCCAGGGCCGGCTTTAAAAATAGCTGCAGCCTTGGTGGT  
GGCCTTCTCGTGCTATGGTCCCATACAATCTCACCTTGTCTGCATACGCTGTTGGACCTGCAAGTA  
TTCGGAACTGTGAGGTCAGCCAGCATCTAGACTACGCACTCCAGGTAACAGAGAGCATCGCCTTCTCT  
ACTGCTGCTTTTCCCCATCCTGTATGCCTTCTCCAGTACCGCTTCCGCCAGTACCTGAAGGCTTCTCT  
GGCTGCCGTGCTTGGATGGCACCTGGCACCTGGCACTGCCAGGCCTCATTATCCAGCTGTTCTGAGAGC  
AGCATACTTACTGCCAAGAGGAAATGACTGGCATGAATGACCTTGGAGAGAGGCAGTCTGAGAATACC  
CTAACAAAGGAGGATGTGGGAATAAATCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202459 representing NM\_001296  
 Red=Cloning site Green=Tags(s)

MAATASPQPLATEDADSENSFFYYDYLDDEVAFMLCRKDAVVSFGKVFLPVFYSLIFVLGLSGNLLLLMV  
 LLRYVPRRRMVEIYLLNLAI SNLLFLVTLPFWGISVAWHWVFGSFLCKMVSTLYTINFYSGIFFISCM  
 SKYLEIVHAQPYHRLRTRAKSLLLATIWAVSLAVSIPDMVFVQTHENPKGVWNCHADFGGHGTIWKLF  
 RFQQLLGFLLPLLAMIFFYSRIGCVLVRRLPAGQGRALKIAAALVVAFFVLWFPYNLTLFLHTLLDLQV  
 FGNCEVSQHLDYALQVTESIAFLHCCFSPILYAFSSHRFRQYLKAFLAAVLGWHLAPGTAQASLSSCES  
 SILTAQEEMTGMNDLGERQSENYPNKEDVGNKSA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001296

**ORF Size:** 1152 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\\_001296.5](#)

**RefSeq Size:** 2962 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 1238

**UniProt ID:** [O00590](#)

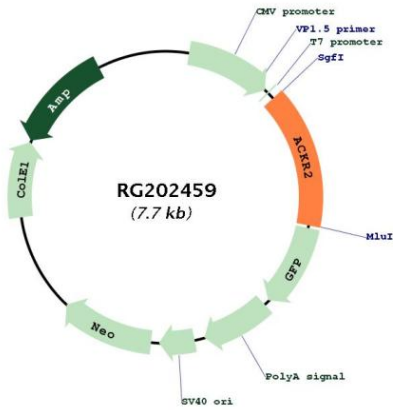
**Cytogenetics:** 3p22.1

**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Gene Summary:** This gene encodes a beta chemokine receptor, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. Chemokines and their receptor-mediated signal transduction are critical for the recruitment of effector immune cells to the inflammation site. This gene is expressed in a range of tissues and hemopoietic cells. The expression of this receptor in lymphatic endothelial cells and overexpression in vascular tumors suggested its function in chemokine-driven recirculation of leukocytes and possible chemokine effects on the development and growth of vascular tumors. This receptor appears to bind the majority of beta-chemokine family members; however, its specific function remains unknown. This gene is mapped to chromosome 3p21.3, a region that includes a cluster of chemokine receptor genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202459