

## Product datasheet for **RG237807**

### CCR7 (NM\_001301718) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCR7 (NM_001301718) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCR7
Synonyms:	BLR2; CC-CKR-7; CCR-7; CD197; CDw197; CMKBR7; EBI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237807 representing NM_001301718. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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AACCTGGCGGTGGCAGACATCCTCTTCTCCTGACCCTTCCCTTCTGGGCTACAGCGCGCCAAGTCC
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ATCGGCGTCAAGTCCGCAACGATCTTCAAGCTCTTCAAGGACCTGGGCTGCCTCAGCCAGGAGCAG
CTCCGGCAGTGGTCTTCTGTGCGCACATCCGGCGCTCCTCCATGAGTGTGGAGCCGAGACCACCACC
ACCTTCTCCCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237807  
 Blue=ORF Red=Cloning site Green=Tag(s)

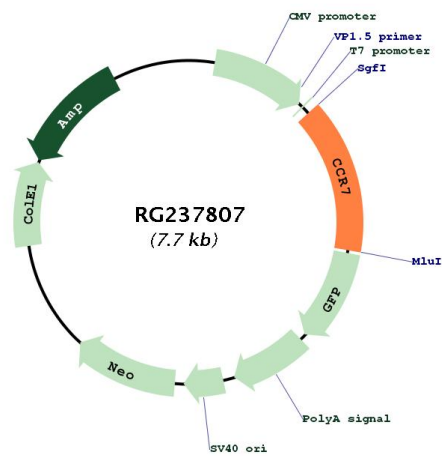
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 NGLVVLTYIYFKRLKMTDITYLLNLAVADILFLLTLPFWAYSAAKSWVFGVHFCKLIFAIYKMSFFSGM  
 LLLLCSIDRYVAIVQAVSAHRHRARVLLISKLSVGIWILATVLSIPELLYSDLQRSSEQAMRCSLI  
 TEHVEAFITIQVAMQVIGFLVPLLAMSFCYLVIIRTLQARNFERNKAIKVIIAVVVVIVFQLPYNGV  
 VLAQTVANFNITSSSTCELSKQLNIAYDVTYSLACVRCCVNPFLYAFIGVKFRNDLFKLFKDLGCLSSEQ  
 LRQWSSCRHIRRSMSSVEAETTTTFSP  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001301718
<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001301718.1</a> , <a href="#">NP_001288647.1</a>
<b>RefSeq Size:</b>	2303 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	1236
<b>UniProt ID:</b>	<a href="#">P32248</a>
<b>Cytogenetics:</b>	17q21.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
<b>MW:</b>	42.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the G protein-coupled receptor family. This receptor was identified as a gene induced by the Epstein-Barr virus (EBV), and is thought to be a mediator of EBV effects on B lymphocytes. This receptor is expressed in various lymphoid tissues and activates B and T lymphocytes. It has been shown to control the migration of memory T cells to inflamed tissues, as well as stimulate dendritic cell maturation. The chemokine (C-C motif) ligand 19 (CCL19/ECL) has been reported to be a specific ligand of this receptor. Signals mediated by this receptor regulate T cell homeostasis in lymph nodes, and may also function in the activation and polarization of T cells, and in chronic inflammation pathogenesis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2014]