

Product datasheet for RC206614

CCR7 (NM_001838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCR7 (NM_001838) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCR7
Synonyms:	BLR2; CC-CKR-7; CCR-7; CD197; CDw197; CMKBR7; EBI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206614 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTGGGAAACCAATGAAAAGCGTGCTGGTGGTGGCTCTCCTTGTCAATTTCCAGGTATGCCTGT
GTCAAGATGAGGTCACGGACGATTACATCGGAGACAACACCACAGTGGACTACACTTTGTTGCGAGTCTTT
GTGCTCCAAGAAGGACGTGCGGAACTTTAAAGCCTGGTTCCTCCATCATGTACTCCATCATTTGTTTC
GTGGCCCTACTGGCAATGGGCTGGTGTGACCTATATCTATTTCAAGAGGCTCAAGACCATGACCG
ATACCTACCTGCTCAACCTGGCGGTGGCAGACATCCTCTTCTCCTGACCCTTCCCTTCTGGCCCTACAG
CGCGGCCAAGTCTGGTCTTCGGTGTCCACTTTTGCAAGCTCATCTTTGCCATCTACAAGATGAGCTTC
TTCAGTGGCATGCTCCTACTTCTTTGCATCAGCATTGACCGCTACGTGGCCATCGTCCAGGCTGTCTCAG
CTCACCGCCACCGTGCCCGCTCTTCTCATCAGCAAGCTGTCCTGTGTGGGCATCTGGATACTAGCCAC
AGTGCTCTCCATCCCAGAGCTCCTGTACAGTGACCTCCAGAGGAGCAGCAGTGAGCAAGCGATGCGATGC
TCTCTCATCACAGAGCATGTGGAGGCCCTTATCACCATCCAGGTGGCCAGATGGTGATCGGCTTTCTGG
TCCCTCTGCTGGCCATGAGCTTCTGTTACCTTGTATCATCCGCACCCTGCTCCAGGCACGCAACTTTGA
GGGTGGTCTGGCCAGACGGTGGCAAACCTTCAACATCACCAGTACACCTGTGAGCTCAGTAAGCAAC
TCAACATCGCCTACGACGTACCTACAGCCTGGCCTGCGTCCGCTGCTGGTCAACCCTTTCTTGTACGC
CTTCATCGGCGTCAAGTTCGCAACGATCTCTTCAAGCTCTTCAAGGACCTGGGCTGCCTCAGCCAGGAG
CAGCTCCGGCAGTGGTCTTCTGTGCGCACATCCGGCGCTCCTCCATGAGTGTGGAGGCCGAGACCACCA
CCACCTTCTCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206614 protein sequence
Red=Cloning site Green=Tags(s)

MDLGKPMKSVLVALLVIFQVCLCQDEVTDYIGDNTTVDYTLFESLCSK KDVRNFKAWFLPIMYSIICF
 VGLLGNGLVVLTYIYFKRLKMTDYLNLAVADILFLLTLPFWAYSAAKSWVFGVHFCKLIFAIYKMSF
 FSGMLLLLCISIDRYVAIVQAVSAHRHRARVLLISKLSVGIWILATVLSIPELLYSDLQRSSSEQAMRC
 SLITEHVEAFITIQVAQMVIQVPLLAMSFVYLVIIIRTLQARNFERNKAIKVIIAVVVVIVFQLPYN
 GVVLAQTVANFNITSSTCELSKQLNIAIDYVYSLACVRCVNPFLYAFIGVKFRNDLFKLFKDLGCLSQE
 QLRQWSSCRHIRRSMSEAEETTTTFSP

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Chromatograms: https://cdn.origene.com/chromatograms/mk6231_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001838

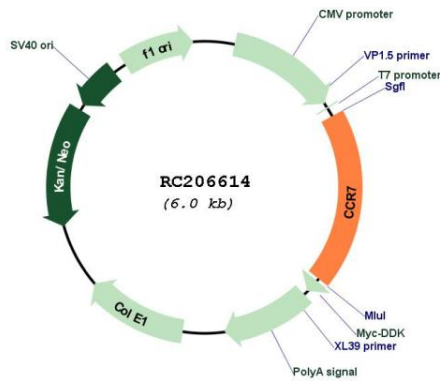
ORF Size: 1134 bp

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.

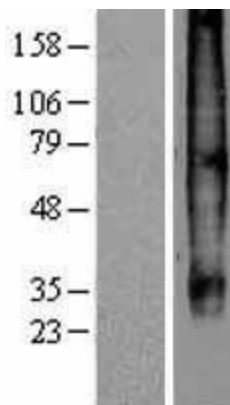
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001838.4
RefSeq Size:	2207 bp
RefSeq ORF:	1137 bp
Locus ID:	1236
UniProt ID:	P32248
Cytogenetics:	17q21.2
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
MW:	42.9 kDa
Gene Summary:	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]

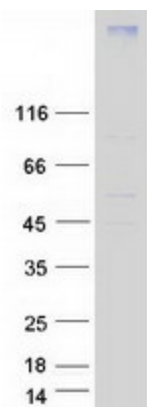
Product images:



Circular map for RC206614



Western blot validation of overexpression lysate (Cat# [LY419718]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206614 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CCR7 protein (Cat# [TP306614]). The protein was produced from HEK293T cells transfected with CCR7 cDNA clone (Cat# RC206614) using MegaTran 2.0 (Cat# [TT210002]).