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Product datasheet for SC118981

CCR7 (NM_001838) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCR7 (NM_001838) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCR7
Synonyms:	BLR2; CC-CKR-7; CCR-7; CD197; CDw197; CMKBR7; EBI1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118981 sequence for NM_001838 edited (data generated by NextGen Sequencing)

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ATGGACCTGGGGAAACCAATGAAAAGCGTGCTGGTGGTGGCTCTCCTTGTCATTTTCCAG
GTATGCCTGTGTCAAGATGAGGTCACGGACGATTACATCGGAGACAACACCACAGTGGAC
TACACTTTGTTCGAGTCTTTGTGCTCCAAGAAGGACGTGCGGAACTTTAAAGCCTGGTTC
CTCCCTATCATGTACTCCATCATTTGTTTCGTGGGCCTACTGGGCAATGGGCTGGTCGTG
TTGACCTATATCTATTTCAAGAGGCTCAAGACCATGACCGATACCTACCTGCTCAACCTG
GCGGTGGCAGACATCCTCTTCCTCCTGACCCTTCCCTTCTGGGCCTACAGCGCGGCCAAG
TCCTGGGTCTTCGGTGTCCACTTTTGCAAGCTCATCTTTGCCATCTACAAGATGAGCTTC
TTCAGTGGCATGCTCCTACTTCTTTGCATCAGCATTGACCGCTACGTGGCCATCGTCCAG
GCTGTCTCAGCTCACCGCCACCGTGCCCGCGTCCTTCTCATCAGCAAGCTGTCCTGTGTG
GGCATCTGGATACTAGCCACAGTGCTCTCCATCCCAGAGCTCCTGTACAGTGACCTCCAG
AGGAGCAGCAGTGAGCAAGCGATGCGATGCTCTCTCATCACAGAGCATGTGGAGGCCTTT
ATCACCATCCAGGTGGCCCAGATGGTGATCGGCTTTCTGGTCCCCCTGCTGGCCATGAGC
TTCTGTTACCTTGTCATCATCCGCACCCTGCTCCAGGCACGCAACTTTGAGCGCAACAAG
GCCATCAAGGTGATCATCGCTGTGGTCGTGGTCTTCATAGTCTTCCAGCTGCCCTACAAT
GGGGTGGTCCTGGCCCAGACGGTGGCCAACTTCAACATCACCAGTAGCACCTGTGAGCTC
AGTAAGCAACTCAACATCGTCTACGACGTCACCTACAGCCTGGCCTGCGTCCGCTGCTGC
GTCAACCCTTTCTTGTACGCCTTCATCGGCGTCAAGTTCCGCAACGATCTCTTCAAGCTC
TTCAAGGACCTGGGCTGCCTCAGCCAGGAGCAGCTCCGGCAGTGGTCTTCCTGTCGGCAC
ATCCGGCGCTCCTCCATGAGTGTGGAGGCCGAGACCACCACCACCTTCTCCCCATAG

Clone variation with respect to NM_001838.3
920 c=>t
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001838 unedited
GTTAGAATTTATGTATACGACTCACTATTAGGGCGGCCGCGAATTCGCACCAGGCACAGC
CTTCCTGTGTGGTTTTACCGCCCAGAGAGCGTCATGGACCTGGGGAAACCAATGAAAAGC
GTGCTGGTGGTGGCTCTCCTTGTCATTTTCCAGGTATGCCTGTGTCAAGATGAGGTCACG
GACGATTACATCGGAGACAACACCACAGTGGACTACACTTTGTTCGAGTCTTTGTGCTCC
AAGAAGGACGTGCGGAACTTTAAAGCCTGGTTCCTCCCTATCATGTACTCCATCATTTGT
TTCGTGGGCCTACTGGGCAATGGGCTGGTCGTGTTGACCTATATCTATTTCAAGAGGCTC
AAGACCATGACCGATACCTACCTGCTCAACCTGGCGGTGGCAGACATCCTCTTCCTCCTG
ACCCTTCCCTTCTGGGCCTACAGCGCGGCCAAGTCCTGGGTCTTCGGTGTCCACTTTTGC
AAGCTCATCTTTGCCATCTACAAGATGAGCTTCTTCAGTGGCATGCTCCTACTTCTTTGC
ATCAGCATTGACCGCTACGTGGCCATCGTCCAGGCTGTCTCAGCTCACCGCCACCGTGCC
CGCGTCCTTCTCATCAGCAAGCTGTCCTGTGTGGGCATCTGGATACTAGCCACAGTGCTC
TCCATCCCAGAGCTCCTGTACAGTGACCTCCAGAGGAGCAGCAGTGAGCAAGCGATGCGA
TGCTCTCTCATCACAGAGCATGTGGAGGCCTTTATCACCATCCNAGTGGCCCAGATGGTG
ATCGGCTTTCTGGTCCCCCTGCTGGCCATGAGCTTCTGNTACCTTGTCATCATCCGCACC
CTGCTCNCAGCACGCAACTTTTGAGCGCACAAGGCCATCAGGNTGATCATCGCTGTGGTC
GTGGTCTTCATAGTCTTNCAGCTGCCCTACATGGNNNGTGTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001838 unedited
CCCCCCAATAGTGTGNCCGCGGCCGCATTCTAGATCGAGTTTTTTTTTTTTTTTTTTAAA
GCTGTTGTTTCCTCAAGGGAAACTTTATCTGTGTGTGGGTAAAATGTTGCTCTCTTAACG
AATCGAAAGCAGAACATGAGGAGAGGTTTTCAGTCCCTGTGACAAAGAACAAAGAACAAG
CTCGTGGGCCTTGGGCGGCCACTGTCACCCTCCCCGCCCCTGACATTTCCCTTGTCCTCT
CCTCCCATCCCAGTGGAGCCAAGAGCTGAGTGCATGTCATCCCCACTCTGGAGCCCAGAG
TGTGGCTTTGATCACGCGGAGGCAGCTGGCCTGGCCTGCAGGAAACACCACACTCTCCCC
TGTTGAGAGCCTGGGAGGGCGACGCGGCAAGTGAGGGGATGAGTGTGCTTTTAGGGCGGC
GTGGCAGCTGCCATTCCCGCTGGCTTGGAGGACAGTGAAGAAAACGATGGAGGGAGGGGT
TCAGAGAGTTTGTTTGACCAGCTGATGTCCGCTTTTCCTCACCAAGCCAAGAAGTCTCCC
CACTATCTCTGGTCTTGGAGATAAGGCCTGGTTTTCGGAAGAGCTGGTCTGAGCATTTGA
GTCTGTGGGAGGCCAGAAGGTTCATTCAGAGGACTCTTCAGGCCACTCCCACGCCCCTTG
CACTCACCCTCCTTGGCCCCTTCACTCCAGCAGGTGGGAACAGTTTCTGGACTTTCACTT
TCAGTTTTTGGTTTAGGGGACAATAGCCTCTGTTTCCCAGTGTTGTCTGTCTGGTGTTAG
CTTATCAGCCCTGTCTTTTTTTTGGCATTGGTTGAGGTAGCTGGGATATGGGGTGAAGCTA
TCTTCTGGAGCAGGGGCTTGCACTCTGAGGGGAGAGCTGCTTTTCCCTGAGCAGCTTATG
CGGGGGGA

Restriction Sites: NotI-NotI

ACCN: NM_001838

Insert Size: 2400 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
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_001838.2, NP_001829.1
RefSeq Size:	2188 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

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]
Transcript Variant: This variant (1) encodes the longest isoform (a).