

Product datasheet for MR227481

Ccr6 (NM_001190333) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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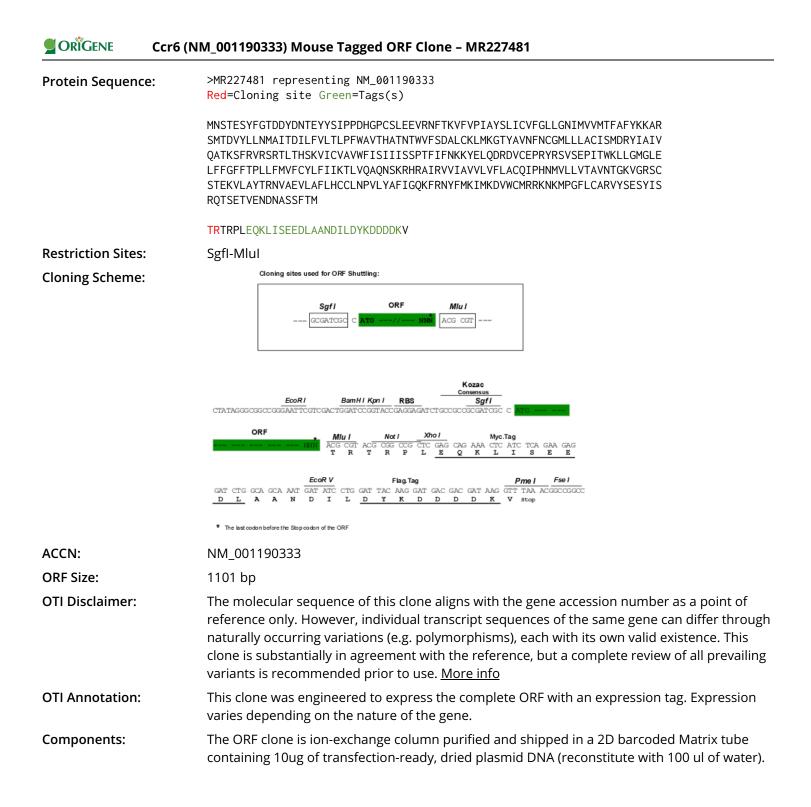
Product Type:	Expression Plasmids	
Product Name:	Ccr6 (NM_001190333) Mouse Tagged ORF Clone	
Tag:	Myc-DDK	
Symbol:	Ccr6	
Synonyms:	CC-CKR-6; CCR-6; Cmkbr6; KY411	
Mammalian Cell Selection:	Neomycin	
Vector:	pCMV6-Entry (PS100001)	
E. coli Selection:	Kanamycin (25 ug/mL)	
ORF Nucleotide Sequence:	<pre>>MR227481 representing NM_001190333 Red=Cloning site Blue=ORF Green=Tags(s)</pre>	
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C	

ATGAATTCCACAGAGTCCTACTTTGGAACGGATGATTATGACAACACAGAGTATTATTCTATTCCTCCAG ACCATGGGCCATGCTCCCTAGAAGAGGTCAGAAACTTCACCAAGGTATTTGTGCCAATTGCCTACTCCTT AATATGTGTCTTTGGCCTCCTGGGCAACATTATGGTGGTGATGACCTTTGCCTTCTACAAGAAAGCCAGA TCCATGACTGACGTCTACCTGTTGAACATGGCCATCACAGACATACTCTTTGTCCTCACCCTACCGTTCT GGGCAGTTACTCATGCCACCAACACTTGGGTTTTCAGCGATGCACTGTGTAAACTGATGAAAGGCACATA TGCGGTCAACTTTAACTGTGGGATGCTGCTCCTGGCCTGTATCAGCATGGACCGGTACATTGCCATCGTC CAGGCAACCAAATCTTTCCGGGTACGCTCCAGAACACTGACGCACAGTAAGGTCATCTGTGTGGCAGTGT GGTTCATCTCCATCATCATCTCAAGCCCTACATTTATCTTCAACAAGAAATACGAGCTGCAGGATCGTGA TGTCTGTGAGCCACGGTACAGGTCTGTCTCAGAGCCCATCACGTGGAAGCTGCTGGGGTATGGGACTGGAG CTGTTCTTTGGGTTCTTCACCCCTTTGCTGTTTATGGTGTTCTGCTATCTGTTCATTATCAAGACCTTGG TGCAGGCCCAGAACTCCAAGAGGCACAGAGCAATCCGAGTCGTGATCGCTGTGGTTCTCGTGTTCCTGGC TTGTCAGATCCCTCACAACATGGTCCTCCTCGTGACTGCGGTCAACACGGGCAAAGTGGGCCGGAGCTGC AGCACCGAGAAAGTCCTCGCCTACACCAGGAACGTGGCCGAGGTCCTGGCTTTCCTGCATTGCTGCCTCA ACCCCGTGTTGTATGCGTTTATTGGACAGAAATTCAGAAACTACTTCATGAAGATCATGAAGGATGTGTG GTGTATGAGAAGGAAGAATAAGATGCCTGGCTTCCTCTGTGCCCGGGTTTACTCGGAAAGCTACATCTCC AGGCAGACCAGTGAGACCGTCGAAAATGATAATGCATCGTCCTTTACCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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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:	<u>NM 001190333.1</u> , <u>NP 001177262.1</u>
RefSeq Size:	1567 bp
RefSeq ORF:	1104 bp
Locus ID:	12458
UniProt ID:	<u>054689</u>
Cytogenetics:	17 A1
MW:	42.1 kDa

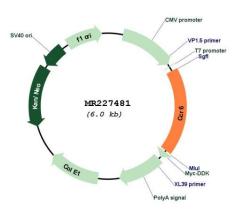
Gene Summary:

Receptor for the C-C type chemokine CCL20. Binds to CCL20 and subsequently transduces a signal by increasing the intracellular calcium ion levels (PubMed:20068036). Although CCL20 is its major ligand it can also act as a receptor for non-chemokine ligands such as betadefensins (PubMed:25122636). Binds to defensin DEFB1 leading to increase in intracellular calcium ions and cAMP levels. Its binding to DEFB1 is essential for the function of DEFB1 in regulating sperm motility and bactericidal activity (By similarity). Binds to defensins DEFB4 and DEFB4A/B and mediates their chemotactic effects (PubMed:20068036). The ligandreceptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and various autoimmune diseases. CCR6-mediated signals are essential for immune responses to microbes in the intestinal mucosa and in the modulation of inflammatory responses initiated by tissue insult and trauma (PubMed:21376174). CCR6 is essential for the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation (PubMed:19050256). Required for the normal migration of Th17 cells in Peyers patches and other related tissue sites of the intestine and plays a role in regulating effector T-cell balance and distribution in inflamed intestine (PubMed:19129757). Plays an important role in the coordination of early thymocyte precursor migration events important for normal subsequent thymocyte precursor development, but is not required for the formation of normal thymic natural regulatory T-cells (nTregs). Required for optimal differentiation of DN2 and DN3 thymocyte precursors (PubMed:24638065). Essential for B-cell localization in the subepithelial dome of Peyers-patches and for efficient Bcell isotype switching to IgA in the Peyers-patches (PubMed:27174992). Essential for appropriate anatomical distribution of memory B-cells in the spleen and for the secondary recall response of memory B-cells (PubMed:25505290). Positively regulates sperm motility and chemotaxis via its binding to CCL20 (PubMed:23765988).[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR227481

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