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Datasheet for ABIN7562398  
**CCR6 Protein (AA 1-367) (His tag)**

## Overview

Quantity:	1 mg
Target:	CCR6
Protein Characteristics:	AA 1-367
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCR6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Ccr6 Protein expressed in mammalien cells.
Sequence:	<p>MNSTESYFGT DDYDNTEYYS IPPDHGPCSL EEVRNFTKVF VPIAYSLICV FLLGNIMVV MTFAFYKKAR SMTDVYLLNM AITDILFVLT LPFWAVTHAT NTWVFS DALC KLMKGT YAVN FNCGM LLLAC ISMDRYIAIV QATKSFVRVS RTLTHSKVIC VAVWFISIII SSPTFIFNKK YELQDRDVCE PRYRSVSEPI TWKLLGMGLE LFFGFFTPLL FMVFCYLFII KTLVQAQNSK RHRAIRVVIA WLVFLACQI PHNMVLLVTA VNTGKVGRSC STEKVLAYTR NVAEVLAF LH CCLNPVLYAF IGQKFRNYFM KIMKDVWCMR RKNKMPGFLC ARVYSESYIS RQTSETVEND NASSFTM <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

Characteristics:	Key Benefits:
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## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	CCR6
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Alternative Name:	Ccr6 ( <a href="#">CCR6 Products</a> )
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Background:	C-C chemokine receptor type 6 (C-C CKR-6) (CC-CKR-6) (CCR-6) (KY411) (CD antigen CD196),FUNCTION: 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 beta-defensins (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 ligand-receptor 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
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## Target Details

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recruitment of both the pro-inflammatory 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 B-cell 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). {ECO:0000250|UniProtKB:P51684, ECO:0000269|PubMed:19050256, ECO:0000269|PubMed:19129757, ECO:0000269|PubMed:20068036, ECO:0000269|PubMed:23765988, ECO:0000269|PubMed:24638065, ECO:0000269|PubMed:25122636, ECO:0000269|PubMed:25505290, ECO:0000269|PubMed:27174992, ECO:0000303|PubMed:21376174}.

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Molecular Weight: 42.1 kDa

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UniProt: [O54689](#)

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Pathways: [cAMP Metabolic Process](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months