

Specifications:

Gene:	hCXCR7
Accession:	NP_064707
Insert size:	1101bp
Package size:	10µg at 0.2µg/µL

hCXCR7 cDNA Plasmid

**CXCR7 chemokine (C-X-C motif)
receptor 7 [*Homo sapiens*]**

Also known as: RDC1; CMKOR1;
GPR159

Summary:

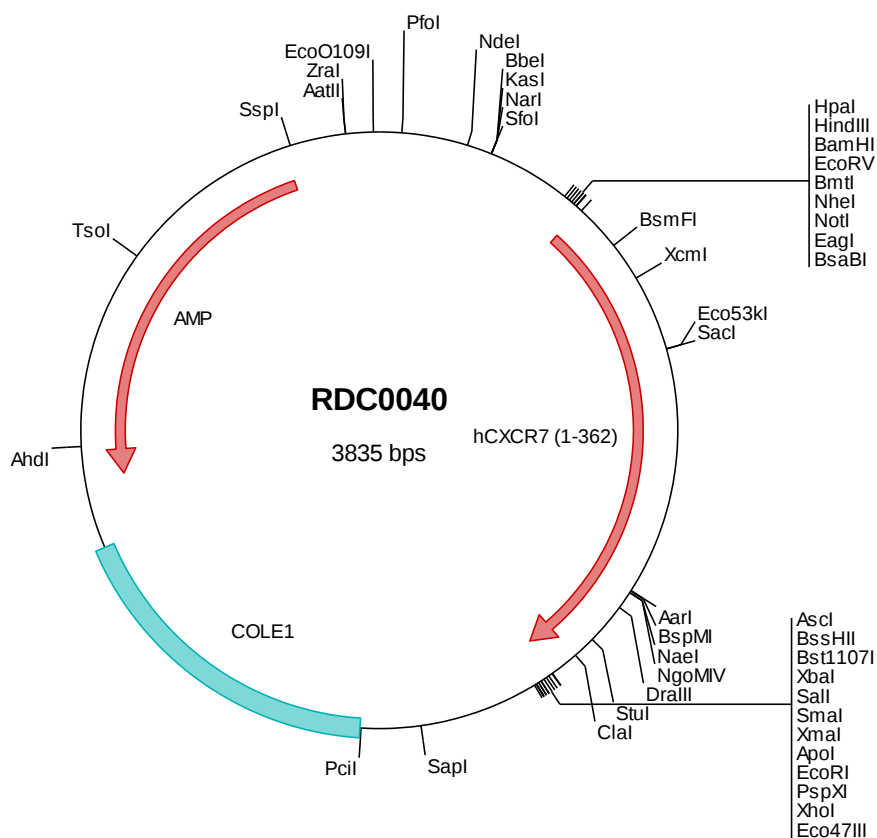
CXCR7 is a G protein-linked seven transmembrane domain spanning chemokine receptor that binds the ligands CXCL11 and CXCL12 (SDF-1a). CXCL12 is involved in essential functions of the immune and nervous systems. CXCR7, which cannot signal directly through G protein-linked pathways, can nevertheless affect cellular signaling networks by forming a heteromeric complex with CXCR4. The CXCR4-CXCR7 heterodimer complex recruits β -arrestin, resulting in preferential activation of β -arrestin-linked signaling pathways over canonical G protein pathways. The protein is also a co-receptor for human immunodeficiency viruses (HIV).

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC0040 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgttaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtgggta acgcccaggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
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> RDC0040 Translated Insert Sequence

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201  pehsikewli gmelvsvvlv favpfsliaf fyfllarais assdkehss rkiifsyvvv flvcwlpvhw avlldifsil hyipftcrle halftalhvt
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