

Product datasheet for RC201564

CXADR (NM_001338) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CXADR (NM_001338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CXADR
Synonyms:	CAR; CAR4/6; HCAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201564 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCCTGTGCTTCGTGCTCCTGTGCGGAGTAGTGGATTTCCGCCAGAAGTTTGAGTATCACTA
CTCCTGAAGAGATGATTGAAAAAGCCAAAGGGGAACTGCCTATCTGCCGTGCAAATTTACGCTTAGTCC
CGAAGACCAGGGACCGCTGGACATCGAGTGGCTGATATCACCAGCTGATAATCAGAAGGTGGATCAAGTG
ATTATTTTATATCTGGAGACAAAATTTATGATGACTACTATCCAGATCTGAAAGGCCGAGTACATTTTA
CGAGTAATGATCTCAAATCTGGTATGCATCAATAAATGTAACGAATTTACAAGTGCAGATATTGGCAC
ATATCAGTGCAAAGTAAAAAGCTCCTGGTGTGCAAATAAGAAGATTCATCTGGTAGTCTTGTGTAAG
CCTTCAGGTGCGAGATGTTACGTTGATGGATCTGAAGAAATGGAAGTGACTTTAAGATAAAATGTGAAC
CAAAGAAGGTTCACTTCCATTACAGTATGAGTGGCAAATTTGCTGACTCACAGAAAATGCCACTTC
ATGGTTAGCAGAAATGACTTCATCTGTTATATCTGTAATAATGCCTCTTCTGAGTACTCTGGGACATAC
AGCTGTACAGTCAGAAACAGAGTGGCTCTGATCAGTGCCTGTTGCGTCTAAACGTTGTCCTCCTTCAA
ATAAAGCTGGACTAATTGCAGGAGCCATTATAGGAACCTTGGCTGCTAGCGCTCATTGGTCTTATCAT
CTTTTGTGTGTAATAAGCGCAGAGAAGAAAAATATGAAAAGGAAGTTCATCACGATATCAGGGAAGAT
GTGCCACCTCCAAGAGCCGACGTCCTGCTGCGCAGAAAGCTACATCGGCAGTAATCATTCCCTGGGGT
CCATGTCTCCTTCAACATGGAAGGATATTCCAAGACTCAGTATAACCAAGTACCAAGTGAAGACTTTGA
ACGCACTCCTCAGAGTCCGACTCTCCACCTGCTAAGGTAGCTGCCCTAATCTAAGTCGAATGGGTGCG
ATTCCTGTGATGATTCCAGCACAGAGCAAGGATGGGTCTATAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201564 protein sequence
Red=Cloning site Green=Tags(s)

MALLLCFVLLCGVVDFARSLSITTPPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLISPADNQKVDQV
 IILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQCKVKKAPGVANKKIHLVVLVK
 PSGARCYVDGSEEIGSDFKIKCEPKESLPLQYEWQKLSDSQKMP TSWLAEMTSSVISVKNASSEYSGTY
 SCTVRRNVGSDQCLLRNLNVPPSNKAGLIAGAIIGTLLALALIGLIIFCCRKKRREEKYEVVHDIRED
 VPPPKSRTSTARSYIGSNHSSLGSMSPSNMEGYSKTQYNQVPSEDFERTPQSPTLPPAKVAAPNLSRMGA
 IPVMIPAQSKDGSIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6215_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001338

ORF Size: 1095 bp

OTI Disclaimer: 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:

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_001338.2](#)

RefSeq Size: 5744 bp

RefSeq ORF: 1098 bp

Locus ID: 1525

UniProt ID: [P78310](#)

Cytogenetics: 21q21.1

Domains: ig, IGv, IGc2, IG

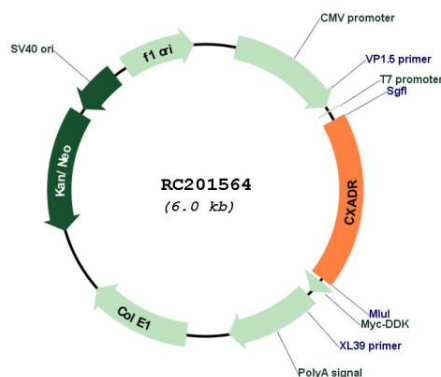
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transmembrane

Protein Pathways: Viral myocarditis

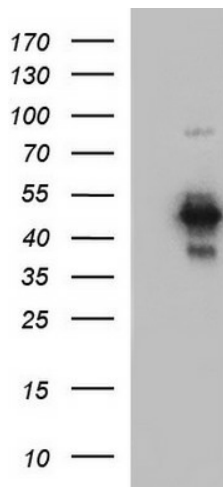
MW: 40 kDa

Gene Summary: The protein encoded by this gene is a type I membrane receptor for group B coxsackieviruses and subgroup C adenoviruses. Several transcript variants encoding different isoforms have been found for this gene. Pseudogenes of this gene are found on chromosomes 15, 18, and 21. [provided by RefSeq, May 2011]

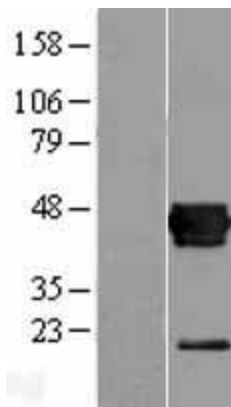
Product images:



Circular map for RC201564



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CXADR (Cat# RC201564, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CXADR antibody (Cat# [TA590736]). Positive lysates [LY419998] (100ug) and [LC419998] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419998]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201564 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).