

Product datasheet for **MG205349**

Cxadr (BC016457) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cxadr (BC016457) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cxadr
Synonyms:	CAR, MCAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205349 representing BC016457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCCTACTGTGCTTCGTGCTCTTGTCGGGATCGCGGATTTACCAGTGGTTTGAGCATCACTA
CACCCGAACAGAGGATCGAAAAAGCCAAAGGGGAACTGCGTATCTACCATGCAAGTTTACTCTCAGTCC
CGAAGACCAGGGACCACTGGACATTGAATGGCTGATATCCCCGTCTGATAACCAGATAGTGGATCAAGTG
ATCATTTTGTATTCTGGAGACAAAATTTATGATAACTACTATCCGGATCTGAAAGGACGGGTACATTTTA
CGAGTAACGATGTCAAGTCTGGCGACGCATCTATAAATGTGACCAACCTGCAGCTGTCGGACATTGGCAC
TTACCAGTGCAAAGTGAAGAAAGCCCCTGGGGTTGCAAATAAGAAATTCCTGCTGACCGTCTTGTTAAG
CCTTCAGGTACAAGATGCTTCGTGGATGGATCGGAAGAGATTGGAATGACTTCAAGCTAAAATGTGAAC
CCAAGGAAGGCTCCCTTCCACTACAGTTTGAATGGCAGAACTGTCCGACTCCCAGACAATGCCTACGCC
ATGGCTGGCAGAAATGACGTCACCAGTTATATCTGTGAAGAACGCCAGTTCTGAGTATTCTGGGACATAC
AGCTGCACGGTTCAAACAGAGTGGGCTCTGACCAGTGTATGCTGCGACTAGACGTTGTCCCACCCCTCCA
ACCGAGCCGGAACGATCGCGGGCGCCGTCATAGGGACGCTGCTGGCCCTTGCTCATCGGGCCATCCT
CTTCTGCTGTACAGGAAACGCAGAGAAGAGAAGTACGAGAAGGAAGTTCATCATGATATCAGGGAAGAT
GTGCCCTCCTCAAAGAGTCCGACATCCACTGCCAGGAGCTATTGGCAGCAACCATTCCCTCCCTGGGAT
CCATGTCCCCCTAACATGGAGGGTATTCCAAGACGCAGTATAACCAAGTCCCCAGTGAAGACTTTGA
ACGTGCGCCTCAGAGCCCGACTCTGGCACCCGCTAAGTTCAAGTACGCTTACAAGACCGATGCATTACA
GTGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205349 representing BC016457
Red=Cloning site Green=Tags(s)

MARLLCFVLLCGIADFTSGLSITTPQRIEKAKGETAYLPCKFTLSPEDQGPLDIEWLISPSDNQIVDQV
 IILYSGDKIYDNYYPDLKGRVHFTSNDVKSGDASINVTNLQLSDIGTYQCKVKKAPGVANKKFLTLVLVK
 PSGTRCFVDGSEEIGNDFKLKCEPKESLPLQFEWQKLSDSQTMPTPWLAEMTSPVISVKNASSEYSPTY
 SCTVQNRVGSQMLRLDVPPSNRAGTIAGAVIGTLLALVILGAILFCCHRKRREEKYEVHHDIRE
 VPPPKSRTSTARSYIGSNHSSLGSMSPSNMEGYSKTQYNQVPSEDFERAPQSPTLAPAKFKYAYKTDGIT
 VV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC016457

ORF Size: 1058 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: [BC016457](#), [AAH16457](#)

RefSeq Size: 1696 bp

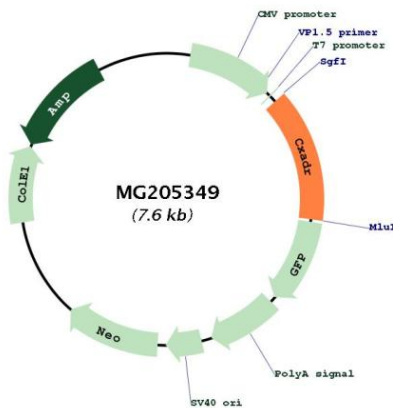
RefSeq ORF: 1058 bp

Locus ID: 13052

Cytogenetics: 16 C3.1

Gene Summary: This gene encodes a protein that is part of the Cortical Thymocyte marker in Xenopus (CTX) subfamily within the immunoglobulin superfamily. Members of this subfamily, predominantly expressed on the surface of endothelial and epithelial cells, help establish cell polarity and provide a barrier function, regulating migration of immune cells. This protein, first identified as the receptor for adenovirus subgroup C and coxsakieviruses group B, is developmentally regulated and plays an important role in cardiac development. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]

Product images:



Circular map for MG205349