

Product datasheet for **MC208001**

Cd38 (NM_007646) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd38 (NM_007646) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd38
Synonyms:	ADPRC 1; Cd38-r; Cd38-rs1; I-19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208001 representing NM_007646 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAACTATGAATTTAGCCAGGTGTCTGGGGACAGACCTGGCTGCCGCCTCTCTAGGAAAGCCAGA
TCGGTCTCGGAGTGGGTCTCCTGGTCTGATCGCCTTGGTAGTAGGGATCGTGGTCATACTTCTGAGGCC
GCGCTCACTCCTGGTGTGGACTGGAGAGCCTACCACGAAGCACTTTCTGACATCTTCTGGGACGCTGC
CTCATCTACACTCAGATCCTCCGGCCGGAGATGAGAGATCAGAAGTCCAGGAGATACTGAGTACATTCA
AAGGAGCATTGTTTCCAAGAACCCTTGAACATCACAAGAGAAGACTACGCCCCACTTGTTAAATTGGT
CACTCAAACCATACCATGTAACAAGACTCTTTTTGGAGCAAATCAAACACCTGGCCCATCAATATACT
TGGATCCAGGAAAGATGTTACCCCTGGAGGACACCCTGCTGGGTACATTGCTGATGATCTCAGGTGGT
GTGGAGACCCTAGTACTTCTGATATGAACTATGTCTTTGCCACATTGGAGTGAAGTGTCCCAACAA
CCCTATTACTGTGTTCTGGAAAGTGATTTCCAAAAGTTTGCAGAAGATGCCTGTGGTGTGGTCCAAGTG
ATGCTCAATGGTCCCTCCGTGAGCCATTTACAAAACAGCACCTTTGGAAGTGTGAAGTCTTTAGTT
TGGACCAAATAAGGTTCAAACTACAGGCCTGGGTGATGCACGACATCGAAGGAGCTTCCAGTAAACGC
ATGTTCAAGCTCCTCCTTAAATGAGCTGAAGATGATTGTGCAGAAAAGGAATATGATATTTGCCTGCGTG
GATAACTACAGGCCTGCCAGGTTTCTTCAGTGTGTGAAGAACCCTGAGCACCCATCGTGTAGACTTAATA
CGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_007646



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Insert Size:	915 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none">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:	BC046312 , AAH46312
RefSeq Size:	2797 bp
RefSeq ORF:	915 bp
Locus ID:	12494
UniProt ID:	P56528
Cytogenetics:	5 23.85 cM
Gene Summary:	<p>This gene encodes a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Knockout mice deficient for this gene display altered humoral immune responses. In addition, knockout mice exhibit higher locomotor activity and defects in nurturing and social behaviors. [provided by RefSeq, Sep 2015]</p>