

Product datasheet for **MG204265**

Cd38 (NM_007646) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd38 (NM_007646) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd38
Synonyms:	ADPRC 1; Cd38-r; Cd38-rs1; I-19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204265 representing NM_007646 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAACTATGAATTTAGCCAGGTGTCTGGGGACAGACCTGGCTGCCGCCTCTCTAGGAAAGCCAGA
TCGGTCTCGGAGTGGGTCTCTGGTCTGATCGCCTTGGTAGTAGGGATCGTGGTCATACTTCTGAGGCC
GCGTCACTCCTGGTGTGGACTGGAGAGCCTACCACGAAGCACTTTTCTGACATCTTCTGGGACGCTGC
CTCATCTA CACTCAGATCCTCCGGCCGGAGATGAGAGATCAGAACTGCCAGGAGATACTGAGTACATTCA
AAGGAGCATTGTTTCCAAGAACCCTTGAACATCACAAGAGAAGACTACGCCCCACTTGTTAAATTGGT
CACTCAAACCATACCATGTAACAAGACTCTCTTTGGAGCAAATCAAACACCTGGCCCATCAATATACT
TGGATCCAGGAAAGATGTTACCCCTGGAGGACACCCTGCTGGGCTACATTGCTGATGATCTCAGGTGGT
GTGGAGACCCTAGTACTTCTGATATGAACTATGTCTTTGCCACATTGGAGTGA AAACTGTCCCAACAA
CCCTATTACTGTGTTCTGGAAAGTGATTTCCAAAAGTTTGCAGAAGATGCCTGTGGTGTGGTCCAAGTG
ATGCTCAATGGTCCCTCCGTGAGCCATTTACAAAAACAGCACCTTTGGAAGTGTGGAAGTCTTTAGTT
TGGACCAAATAAGGTTCAAACTACAGGCCTGGGTGATGCACGACATCGAAGGAGCTTCCAGTAACGC
ATGTTCAAGCTCCTCCTTAAATGAGCTGAAGATGATTGTGCAGAAAAGGAATATGATATTTGCCTGCGTG
GATAACTACAGGCCTGCCAGGTTTCTTCAGTGTGTGAAGAACCCTGAGCACCCATCGTGTAGACTTAATA
CG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204265 representing NM_007646
 Red=Cloning site Green=Tags(s)

MANYEFSQVSGDRPGCLSRKAQIGLVGLLVLIALVVGIVVILLRPRSLLVWTGEPPTKHFSDIFLGRC
 LIYTQILRPEMRDQNCQEILSTFKGAFVSKNPCNITREDYAPLVKLVQTIPCNKTLFWSKSKHLAHQYT
 WIQGMFTLEDTLGYIADDLRWCGDPSTSDMNYVSCPHWSENCNPNPITVFWKVISQKFAEDACGVVQV
 MLNGSLREPFYKNSTFGSVEVFLSDPNKVHKLQAWVMHDIEGASSNACSSSSLNELKMIVQKRNMIFACV
 DNYRPARFLQCVKNPEHPSCRLNT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007646

ORF Size: 912 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_007646.5](#)

RefSeq Size: 2972 bp

RefSeq ORF: 915 bp

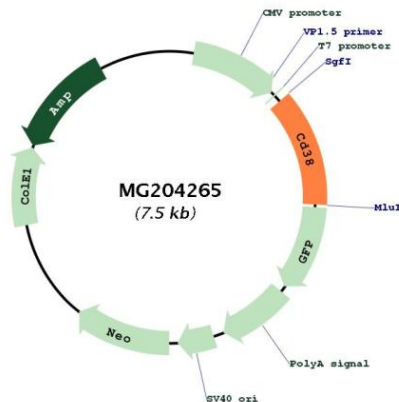
Locus ID: 12494

UniProt ID: [P56528](#)

Cytogenetics: 5 23.85 cM

Gene Summary: 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]

Product images:



Circular map for MG204265