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Product datasheet for MR204265

Cd38 (NM_007646) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd38 (NM_007646) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)

ORF Nucleotide Sequence:

>MR204265 representing NM_007646
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTAACTATGAATTTAGCCAGGTGTCTGGGGACAGACCTGGCTGCCGCCTCTCTAGGAAAGCCCAGA
TCGGTCTCGGAGTGGGTCTCCTGGTCCTGATCGCCTTGGTAGTAGGGATCGTGGTCATACTTCTGAGGCC
GCGCTCACTCCTGGTGTGGACTGGAGAGCCTACCACGAAGCACTTTTCTGACATCTTCCTGGGACGCTGC
CTCATCTACACTCAGATCCTCCGGCCGGAGATGAGAGATCAGAACTGCCAGGAGATACTGAGTACATTCA
AAGGAGCATTTGTTTCCAAGAACCCTTGCAACATCACAAGAGAAGACTACGCCCCACTTGTTAAATTGGT
CACTCAAACCATACCATGTAACAAGACTCTCTTTTGGAGCAAATCCAAACACCTGGCCCATCAATATACT
TGGATCCAGGGAAAGATGTTCACCCTGGAGGACACCCTGCTGGGCTACATTGCTGATGATCTCAGGTGGT
GTGGAGACCCTAGTACTTCTGATATGAACTATGTCTCTTGCCCACATTGGAGTGAAAACTGTCCCAACAA
CCCTATTACTGTGTTCTGGAAAGTGATTTCCCAAAAGTTTGCAGAAGATGCCTGTGGTGTGGTCCAAGTG
ATGCTCAATGGGTCCCTCCGTGAGCCATTTTACAAAAACAGCACCTTTGGAAGTGTGGAAGTCTTTAGTT
TGGACCCAAATAAGGTTCATAAACTACAGGCCTGGGTGATGCACGACATCGAAGGAGCTTCCAGTAACGC
ATGTTCAAGCTCCTCCTTAAATGAGCTGAAGATGATTGTGCAGAAAAGGAATATGATATTTGCCTGCGTG
GATAACTACAGGCCTGCCAGGTTTCTTCAGTGTGTGAAGAACCCTGAGCACCCATCGTGTAGACTTAATA
CG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR204265 representing NM_007646
Red=Cloning site Green=Tags(s)

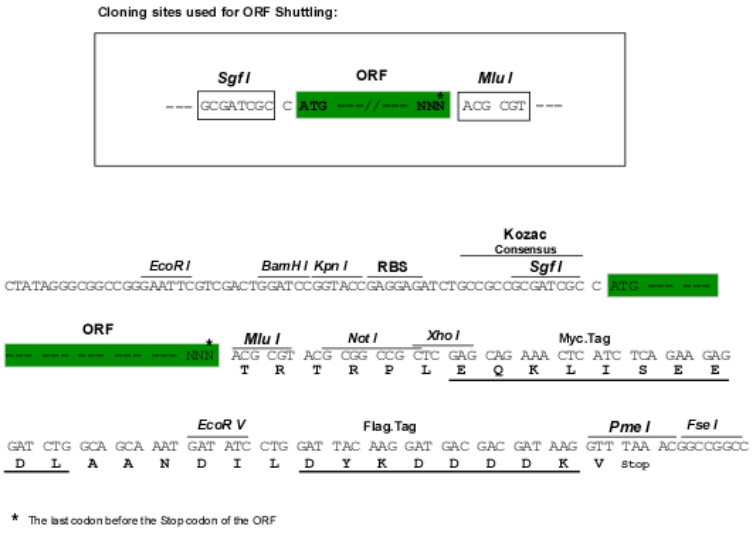
MANYEFSQVSGDRPGCRLSRKAQIGLGVGLLVLIALVVGIVVILLRPRSLLVWTGEPTTKHFSDIFLGRC
LIYTQILRPEMRDQNCQEILSTFKGAFVSKNPCNITREDYAPLVKLVTQTIPCNKTLFWSKSKHLAHQYT
WIQGKMFTLEDTLLGYIADDLRWCGDPSTSDMNYVSCPHWSENCPNNPITVFWKVISQKFAEDACGVVQV
MLNGSLREPFYKNSTFGSVEVFSLDPNKVHKLQAWVMHDIEGASSNACSSSSLNELKMIVQKRNMIFACV
DNYRPARFLQCVKNPEHPSCRLNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_e09.zip

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: 2995 bp

RefSeq ORF: 915 bp

Locus ID: 12494

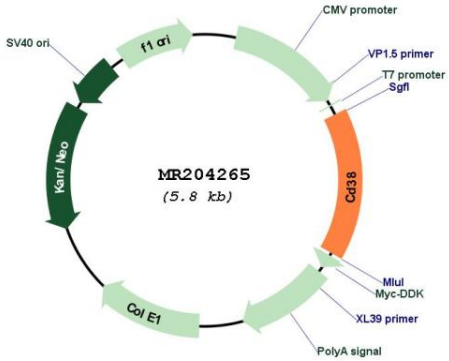
UniProt ID: P56528

Cytogenetics: 5 23.85 cM

MW: 34.9 kDa

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 MR204265