

Product datasheet for **RR209763**

Cd38 (NM_013127) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd38 (NM_013127) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd38
Synonyms:	ADPRC 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209763 representing NM_013127 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACATGAATTTCCAGGTGTCTGAGGACAGACCTGGCTGCCGCTCACTAGGAAAGCCAGA
TCGGTCTGGAGTGGGTCTCTGCTCCTGGTCGCCTTGGTAGTGGTCGTGGTCATAGTTCTGTGGCCGCG
CTCACCCCTGGTGTGGAAAGGGAAGCCTACCACGAAGCACTTCGCTGACATCATCTTGGGACGCTGCCTG
ATCTATACTCAAATCCTCCGGCCGGAGATGAGAGATCAGGACTGCAAGAAGATACTAAGTACATTCAAAA
GAGGGTTTATTTCCAAGAATCCTTGCAACATCACCAATGAAGACTACGCACCACTGGTTAAATTGGTTAC
TCAAACCATACCATGTAACAAGACTCTCTTTGGAGCAAGTCAAACACCTGGCCCATCAGTATACTTGG
ATCCAGGGGAAAATGTTACCCCTGGAGGACACACTGCTGGGCTATATTGCAGATGATCTCAGGTGGTGTG
GAGACCCCACTACTTCCGATATGAACTATGACTCTTGCCACATTGGAGTGAAAATTGTCCCAACAACCC
TGTTGCTGTGTTCTGGAATGTGATTTCCAAAAGTTTGCAGAAGATGCCTGTGGTGTGGTCCAAGTGATG
CTCAATGGGTCCCTCAGTGAGCCATTTACAGAAACAGCACCTTTGGAAGTGTGGAAGTCTTTAATTTGG
ACCAAATAAGGTTCAAACTACAGGCCTGGGTAATGCATGACATTAAGGAACCTCCAGTAATGCATG
TTCGAGCCCTCCATAAATGAGCTGAAGTCGATTGTGAACAAAAGGAATATGATATTTGCCTGCCAGGAT
AACTACCGACCTGAAGATTTCTCAGTGTGTGAAGAATCCTGAGCATCCATCATGTAGACTTAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209763 representing NM_013127
Red=Cloning site Green=Tags(s)

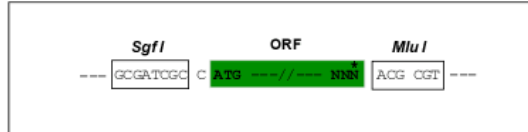
MANYEFSQVSEDRPGCRLTRKAQIGLVGLLLLVALVVVVVIVLWPRSPLVWKGKPTTKHFADIILGRCL
 IYTQILRPEMRDQCKKILSTFKRGFISKNPCNITNEDYAPLVKLVQTIPCNKTLFWSKSKHLAHQYTW
 IQGKMFTLEDLLGYIADDLRWCGBPSTSDMNYDSCPHWSENCNPNPVAVFVWVVISQKFAEDACGVVQVM
 LNGSLSEPFYRNSTFGSVEVFNLDPNKVHKLQAWVMHDIKGTSSNACSSPSINELKSIVKNRMIFACQD
 NYRPVRFLLQCVKNPEHPSCRLNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013127

ORF Size: 909 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_013127.1](#), [NP_037259.1](#)

RefSeq Size: 2248 bp

RefSeq ORF: 912 bp

Locus ID: 25668

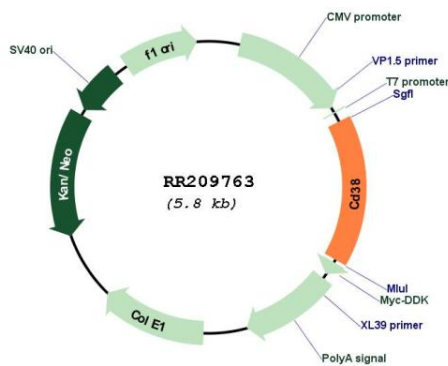
UniProt ID: [Q64244](#)

Cytogenetics: 14q21

MW: 34.4 kDa

Gene Summary: ADP-ribosyl cyclase enzyme involved in regulation of cellular calcium levels [RGD, Feb 2006]

Product images:



Circular map for RR209763