

Product datasheet for **MR209748**

Ralbp1 (NM_009067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ralbp1 (NM_009067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ralbp1
Synonyms:	Rip1; RLIP76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209748 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACTGAGTGCTTCCTGCCCCGAGCAGCAGCCCTAGTGAACACCCGAGGGCCGAGCATGGCAGCGGGC
TGACCCGACCCCGAGCTCTGAGGAGATCAGTCCTACAAAGTTCCTGGATTGTACCGGACGGGCGAGCC
CTCGCCTCCCATGACGTCTCCATGAGCCTCCTGATACAGTGTGATGACGACAAAGACCATGGAAAG
AAAAAAGGAAATTTAAGAAAAAGGAGAAAAGGACTGAAGGCTACGCTGCCTTCCAGGAAGACAGCTCTG
GAGATGAAGCTGAAAGTCTTCAAGGTGAAGAGGTCCAAGGGAATCCATGTGTTCAAAAAGCCAGTTT
CTCTAAAAAGAAGGAAAAAGATTTTAAATCAAAGAAAAACCAAAGAAGAAAAGCATAAAGAAGAAAAG
CACAAAGAGGAAAAGCATAAAGAAAAGAAATCGAAAGACTTGACAGCAGCTGATGTTGTTAAACAGTGGA
AGGAAAAGAAGAAAAGAAAAGCCAATTCAGGAGCCAGAGGTGCCTCAGATGGACGCACCGAGTGTCAA
GCCATTTTTGGGGTTCCTTGGTTGACGCAGTAGAGAGGACCATGATGTACGACGGCGTCCGGCTGCCA
GCTGTCTTCCGGGAGTGTGTGGACTACATGGAGAAGCACGGCATGAAGTGTGAAGGCGTCTACCGGTGT
CAGGAATCAAATCAAAGGTAGATGAGCTAAAAGCAGCCTATGACCGAGAGGAGTCTCAAACCTAGAAAG
ATATGAGCCTAACACTGTAGCCAGCTTGCTGAAGCAGTATTTGCGAGACCTTCCAGAGAATTTGCTTACC
AAAGAGCTTATGCCCGATTTGAAGAGGCTTGTGGGAAGACCACAGAGATGGAGAAAAGTGCAGGAATTC
AGCGCTTGCTCCGGGAAGTCCGGAGTGAATCATCTTCTGCTTTCCTGGCTCATTGTGCACCTGGACCA
CGTCATTGCGAAGGAGCTGGAACGAAGATGAACATCCAGAATCTCTATAGTGTGAGCCCCACCGTG
CAGATCAGCAATCGGGTCTGTACGTGCTTTTACACATGTGCAAGAGCTCTTGGCACCGTGGTCTCTGA
AGCAAGTAACAAGACCTCTGCGTGGTCCAACATGGCCACGATGCCACACTGCCAGAGACCCAAGCAGG
CATCAAGGAGGAGATCAGGAGACAGGAGTTCCTTTTGAATTGTTTACATCGAGATCTGCAGGGCGGGATA
AAGGACTTATCTAAAGAAGAAAGATTATGGGAAGTACAGAGGATTCTGACTGCCCTCAAAGAGAAAGCTGA
GGGAAGCTAAAAGACAAGAGTGTGAAACCAAGATTGCACAGGAGATAGCTAGTCTTTCGAAAGAGGATGT
TTCAAAGAAGAAATGAATGAAAACGAAGAAGTTATAAATATCCTTCTTGGCCAGGAGAATGAAATCCTG
ACAGAACAGGAGGAGCTCCTGGCCATGGAGCAGTTCTGCGTCTGATGAGTGCCTCAGAGAAAGAAGAGA
TCGACCGCTCCGAGCTGAAATTCGGGAGATCCAGAGCCGTGAGCAGCATGGCCGAGTGCAGCGGAGGA
GTACTCGTCCGACAGCGAGAGTGCAGGAGGAGGAGGAGGAGTGCAGCTCATCCTGGAGGACCTGCAG
CGGCAGAACGAGGAGTTAGAAATAAAGAACAATCACTTGAACCAAGCAGTCCATGAGGAGCGGGAGGCCA
TCATCGAGCTCCGAGTGCAGCTCCGGCTGCTCCAGATGCAGCGAGCCAAGTCTGAGCAGCAGCCGAGGA
GGAGGAGGAGCCGAGAGGCGAGGGGGCACAGGCCACCGCCCTGTGACGGTGTCTCGAGGTGCGGGTA
GCCAAGGAGCAGGCGAAGGCCTCGCCAGCAAAGACCGGAAGGAGACGCCCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209748 protein sequence
Red=Cloning site Green=Tags(s)

MTECFLLPSSSPSEHRAEHGSLTRTPSSEEISPTKFPGLYRTGEPSPPHDVLHEPPDTSDDDKDHGK
 KKGFKKKEKRTEGYAAFQEDSSGDEAESPskVRSKGIHVFKKPSFKKKEKDFKIKEKPKEEKHKEEK
 HKEEKHKEKSSKDLTAADVVKQWKEKPKKPKPIQEPEVPQMDAPSVKPIFGVPLVDAVERTMMYDGVRLP
 AVFRECVDYMEKHGMKCEGVYRVSGIKSVDELKAAVDREESPNLEEYEPNTVASLLKQYLRDLPENLLT
 KELMPRFEEACGKTTEMEKVQEFQRLRELPECNHLLLSWLIVHLDHVIAKELETMNIQNISIVLSPTV
 QISNRVLYVLFTHVQELFGTVVLKQVTRPLRWSNMATMPTLPETQAGIKEEIRRQEFLLNCLHRDLQGGI
 KDLSKEERLWEVQRILTALKRKLREAKRQECETKIAQEIASLSKEDVSKEEMNENEVINILLAQENEIL
 TEQEELLAMEQLRRLQIASEKKEIDRLRAEIAEIQSRQQHGRSETEEYSSDSESESEDEEELQLILEDLQ
 RQNEELEIKNNHLNQAVHEEAAIEELRVQLRLLQMQRAKSEQQPQEEEEPERGGTGPPPCDGVLEVRV
 AKEQAKASPSKDRKETPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009067

ORF Size: 1947 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_009067.2](#)

RefSeq Size: 4112 bp

RefSeq ORF: 1947 bp

Locus ID: 19765

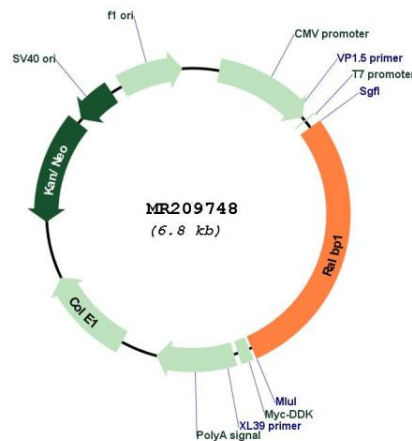
UniProt ID: [Q62172](#)

Cytogenetics: 17 35.26 cM

MW: 75 kDa

Gene Summary: Can activate specifically hydrolysis of GTP bound to RAC1 and CDC42, but not RALA. Mediates ATP-dependent transport of S-(2,4-dinitrophenyl)-glutathione (DNP-SG) and doxorubicin (DOX) and is the major ATP-dependent transporter of glutathione conjugates of electrophiles (GS-E) and DOX in erythrocytes. Can catalyze transport of glutathione conjugates and xenobiotics, and may contribute to the multidrug resistance phenomenon. Serves as a scaffold protein that brings together proteins forming an endocytotic complex during interphase and also with CDK1 to switch off endocytosis, One of its substrates would be EPN1/Epsin (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209748