

Product datasheet for **MR209069**

Rars2 (NM_181406) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Rars2 (NM_181406) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rars2 |
| Synonyms: | 1500002I10Rik; PRO1992; Rarsl |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR209069 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTGTGGCTTTCGTAGGTCGATCGCTGTACAGTTCCAGAGTATTGGCTTCCACCAGAAAGCT
 TGATCAAGTCAATATCTGCTGTTCCAGTTTCAAAAAAAGAAGAGGTGGCAGATTTTCAGCTTTCGGTGGA
 TTCCTTACTAGAAGACAACAATCACAAGTCACAGGTAGACACTCAAGACCAAGCCAGGAGATTGGCAGAG
 AAGCTTAAGTGTGATACAGTGGTGACAGCCATCAGTGTGGCCCAAGGACTCTAAATTTCAAAATAAACA
 GAGAATTATTAACAAAGGCAGTATTGCAACAAGTTACTGAAGATGGCTGTAATATGGGTAAAAAGTGA
 ACTTTTCTCAGATCTTCCAAGAAGAGGATTGTGGTTGAATTAGTTCACCTAATATTGCCAAAAAATTT
 CATGTTGGACATTTGCGCTCCACCATCATAGGAAATTTATAGCAAACTAAAAGAAGCTTTAGGACATC
 AAGTAACAAGAATAAATTACATTGGAGATTGGGCATGCAATTTGGTCTGCTGGGAACTGGTTCCAGCT
 GTTTGGCTATGAAGAGAACTCCAGACCAACCCTTACAGCATCTTTTGTGTTTATGTACAAGTTAAT
 AAAGAAGCAACAGATGATAAAAAATGAACAAAATTTGGCACACGAGTTCTCCACCGACTAGAAATGGGTG
 ACACGCAGGCACTGTCACTGTGGCAGAGATTCCGGGACTTGAGCATTGAAGAGTACACCCAGATTTACAA
 GCGTCTTGGAAATATACTTTGATGAATATTCAGGAGAATCATTTTATCGTGAAAAATCTCAAGATGTCTTA
 AAGTTGCTTGACAGCAAAGGACTTCTGCAGAAAACAGCGGAGGGAAATGTTGTAGTAGATCTCTCTGGGA
 CTGGTGGCCTCTCTTCTGTCTGCACTGTGATGCGAAGTGTGGGACCTCTCTATGCCACCAGGGACCT
 TGCAGCTGCTATACATCGCATGGACAAGTACAATTTTACACAATGATTTATGTCGCAGACAAAGGGCAA
 AGAAGGCATTTTCAGCAAGTGTTCAAAATGCTGAAGATCATGGCTACGACTGGGCCGAAAGGTGCCAGC
 ATGTCCCCTTCGGGATAGTAAAGGGGATGAAGACTCGAAGAGAGGGGTCACTTTTCTGGAAGATGCTTT
 AAATGAGGTTCAATCAAGGATGCTACAGAACATGGCTTCCATTAAGACCACGAAACAATTGGAGAATCCT
 CAGGAGACGCGCAGAGAGAGTGGGCTTGTCTGTCTCATCCAGGACTTCAGAGGCACTCTCTTATCCG
 ACTATCAGTTCAGTTGGGATCGTGTTCAGAGCCGTGGGGCACTGGAGTCTTCTGCAGTACACCCA
 TGCCCCCTCTGTAGTTTGAAGAGACTTTTGGATGTGGGTATCTCAATGACTCCAATGTTGCTTGTTTA
 CAAGAGCCGAGTCTGTTTCAATCTCCAGCATCTTCTCAGGTTTCGATGAGGTACTTTACCTGTCATCTC
 AGGACCTACAGCCGAAGCACATTGTTAGCTACCTCCTAACTCTAAGTACCTTGCAGCTGTGGCACATAA
 AACACTCAAGGTGAAAGACAGTCTCTGATGTGGCTGGGGCCAGACTTACCTTTTCAAAGCTGTCGT
 TCTGTCTTAGCCAATGGAATGAACTTCTTGAATTACACCTGTATGTAGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209069 protein sequence
 Red=Cloning site Green=Tags(s)

MACGFRRSIACQLSRVLALPPESLIKSIASVPVSKKEEVADFQLSVDSLLEDNNHKSQVDTQDQARRLAE
 KLKCDTVVTAISAGPRTLNFKINRELLTKAVLQQVTEGCKYGLKSELFSDLPKKRIVVEFSSPNIAKKF
 HVGHLRSTIIGNFIANLKEALGHQVTRINYIGDWGMQFLLGTGFQLFGYEEKLQTNPLQHLFDVYVQVN
 KEATDDKNVTKLAHEFFHRLMGGDTQALSLWQFRDL SIEEYTIYKRLGIYFDEYSGESFYREKSQDVL
 KLLDSKGLLQKTAEGNVVVDL SGTGGLSSVCTVMRSDGTSLYATRDAAAHRMDKYNFDTMIYVADKGG
 RRHFQQVFQMLKIMGYDWAERCQHVPFQIVKGMKTRRGVTFLEDVLENEVQSRMLQNMASIKTTKQLENP
 QETAERVGLAAVLIQDFRGTLLSDYQFSWDRVFQSRGDTGVFLQYTHARLCSLEETFQCGYLNDNSNVA
 CLQEPQSVSILQHLLRFDEVLYLSSQDLQPKHIVSYLLTLSHLAAVAHKTLKVKDSDPPDVAGARLHLFKAVR
 SVLANGMKLLGITPVCRM

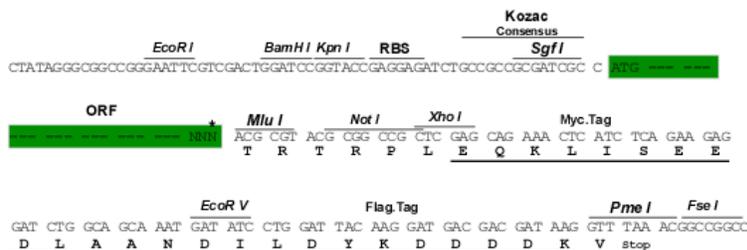
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_181406

ORF Size: 1737 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_181406.3](#)
RefSeq Size: 1880 bp

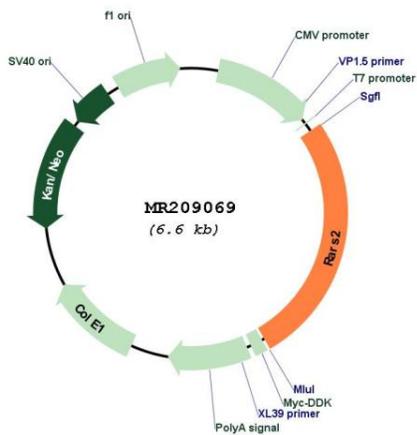
RefSeq ORF: 1737 bp

Locus ID: 109093

UniProt ID: [Q3U186](#)
Cytogenetics: 4 A5

MW: 65.3 kDa

Product images:



Circular map for MR209069