

Product datasheet for **MG209069**

Rars2 (NM_181406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rars2 (NM_181406) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rars2
Synonyms:	1500002I10Rik; PRO1992; Rarsl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209069 representing NM_181406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGTGGCTTTCGTAGGTCGATCGCTGTACAGTTCCAGAGTATTGGCTCTCCACCAGAAAGCT
 TGATCAAGTCAATATCTGCTGTTCCAGTTTCAAAAAAAGAAGAGGTGGCAGATTTTCAGCTTTCGGTGGA
 TTCCTTACTAGAAGACAACAATCACAAGTCACAGGTAGACACTCAAGACCAAGCCAGGAGATTGGCAGAG
 AAGCTTAAGTGTGATACAGTGGTGACAGCCATCAGTGTGGCCCAAGGACTCTAAATTTCAAATAAACA
 GAGAATTATAACAAAGGCAGTATTGCAACAAGTTACTGAAGATGGCTGTAATATGGGTAAAAAGTGA
 ACTTTTCTCAGATCTTCCAAGAAGAGGATTGTGGTTGAATTAGTTCACCTAATATTGCCAAAAAATTT
 CATGTTGGACATTTGCGCTCCACCATCATAGGAAATTTATAGCAAACTAAAAGAAGCTTTAGGACATC
 AAGTAACAAGAATAAATTACATTGGAGATTGGGCATGCAATTTGGTCTGCTGGGAACTGGTTCCAGCT
 GTTTGGCTATGAAGAGAACTCCAGACCAACCCTTACAGCATCTTTTGATGTTTATGTACAAGTTAAT
 AAAGAAGCAACAGATGATAAAAAATGAACAAAATTTGGCACACGAGTTCTCCACCGACTAGAAATGGGTG
 ACACGCAGGCACTGTCACTGTGGCAGAGATTCCGGGACTTGAGCATTGAAGAGTACACCCAGATTTACAA
 GCGTCTTGGAAATATACTTTGATGAATATTCAGGAGAATCATTTTATCGTGAAAAATCTCAAGATGTCTTA
 AAGTTGCTTGACAGCAAAGGACTTCTGCAGAAAACAGCGGAGGGAAATGTTGTAGTAGATCTCTCTGGGA
 CTGGTGGCCTCTCTTCTGTCTGCACTGTGATGCGAAGTGTGGGACCTCTCTATGCCACCAGGGACCT
 TGCAGCTGCTATACATCGCATGGACAAGTACAATTTTACACAATGATTTATGTCGCAGACAAAGGGCAA
 AGAAGGCATTTTCAGCAAGTGTTCAAAATGCTGAAGATCATGGCTACGACTGGCCGAAAGGTGCCAGC
 ATGTCCCCTTCGGGATAGTAAAGGGGATGAAGACTCGAAGAGGAGGGGTCACTTTTCTGGAAGATGCTT
 AAATGAGGTTCAATCAAGGATGCTACAGAACATGGCTTCCATTAAGACCACGAAACAATTGGAGAATCCT
 CAGGAGACGCGCAGAGAGAGTGGGCTTGTCTGTCTCATCATCCAGGACTTCAGAGGCACTCTCTTATCCG
 ACTATCAGTTCAGTTGGGATCGTGTTCAGAGCCGTGGGGACACTGGAGTCTTCTGTCAGTACACCCA
 TGCCCGCCTCTGTAGTTTGAAGAGACTTTTGGATGTGGGTATCTCAATGACTCCAATGTTGCTTGTTTA
 CAAGAGCCGAGTCTGTTTCAATCTCCAGCATCTTCTCAGGTTTCGATGAGGTACTTTACCTGTCATCTC
 AGGACCTACAGCCGAAGCACATTGTTAGCTACCTCCTAACTCTAAGTACCTTGCAGCTGTGGCACATAA
 AACACTCAAGGTGAAAGACAGTCTCTGATGTGGCTGGGGCCAGACTTACCTTTTCAAAGCTGTCCGT
 TCTGTCTTAGCCAATGGAATGAACTTCTTGAATTACACCTGTATGTAGAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209069 representing NM_181406
 Red=Cloning site Green=Tags(s)

MACGFRRSIACQLSRVLALPPESLIKSISAVPVSKEEVADFQLSVDSLLEDNNHKSQVDTQDQARRLAE
 KLKCDTVVTAISAGPRTLNFKINRELLTKAVLQQVTEGCKYGLKSELFSDLPKKRIVVEFSSPNIKKF
 HVGHLRSTIIIGNFIANLKEALGHQVTRINYGDMQFLLGTGFQLFYEEKLQTNPLQHLFDVYVQVN
 KEATDDKNVTKLAHEFFHRLMGTQALSLWQFRDL SIEEYTIYKRLGIYFDEYSGESFYREKSQDVL
 KLLDSKGLLQKTAEGNVVVDLSGTGGLSSVCTVMRSDGTSLYATRDLAAAIHRMDKYNFDTMIYVADKQ
 RRHFQQVFQMLKIMGYDWAERCQHVPFGIVKGMKTRRGVTFLEDVLENEVQSRMLQNMASIKTTKQLENP
 QETAERVGLAAVVIQDFRGTLLSDYQFSWDRVFSRGTGVFLQYTHARLCSLETFGCGYLNDNSNVA
 QEPQSVSILQHLLRFDEVLYLSSQDLQPKHIVSYLLTLSHLAAVAHKTLKVKDSPDPVAGARLHLFKAVR
 SVLANGMKLLGITPVCRM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_181406.2 , NP_852071.1
RefSeq Size:	1874 bp
RefSeq ORF:	1737 bp
Locus ID:	109093
UniProt ID:	Q3U186
Cytogenetics:	4 A5