

## Product datasheet for **RN210593**

### Rars (NM\_001105777) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rars (NM_001105777) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rars
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN210593 representing NM\_001105777  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGGTCTGGTGGCTCAGTGTCCGCGGGTGTGCAGCAGAAAAGGAGATTAATCTCTGACTG  
 CTGAGATCGACCGCTGAAGAACTGTAGTTACTTAGAAGCTTCTCCAAGTTTGGAAACAGTTACGAGAAGA  
 AAATTTAAATGAAGTATAGGCTGAATATTCTTGAAGGAGTCTTCAGGCAGAAAAGGAAAGGCCGACT  
 AAGAACATGATCAACATCAACAGTGCCTGCAGGAGCTTTCGGCTGTGCCATTAAGGCTGCGTATCCAG  
 ACTTGGAGAACCCTCCCCTGGTGTAAACCAAGTCAGCAGCCCAAGTTTGGAGACTATCAATGTAATAG  
 CGCCATGGGTATTTCTCAGATGCTCAAGGCAAAGGAGCAGAAGGTTAGTCTAGAGAAATGCCGAAAAC  
 ATTACCAAACACCTGCCAAACAACGAGTACATCGACAGGGTTGAAATTGCGGGTCCCGTTTCATCAATG  
 TGCACCTGAGAAAGGACTTTGTGTGAGAACAGTTAACCAATCTCCTAGTGAATGGAGTTCACCTACCTGT  
 GCTTGGAGAAAATGAAAAGGTGATAGTTGACTTCTCCTCTCCCAACATAGCTAAGGAGATGCACGTTGGC  
 CACCTCAGGTCAACCATCATAGGAGAAAGTATGAGCCGCCTTTTGAGTTTGCAGGATACAACGTGCTAA  
 GGTTAAACCACGTAGGAGACTGGGGACCCAGTTTGGCATGCTCATCGCTCACCTGCAGGATAAGTTTCC  
 AGATTATCTGACAGTTTACCTCCTATTGGGGATCTTCAGGCCTTTTATAAGGAATCTAAGAAGAGGTTT  
 GATACCGAGGAGGAGTTAAGAAGCGAGCCTATGAGTGTGTTGTTTTGCTGCAGAGTAAAAACCCAGATA  
 TCATGAAAGCCTGGAATCTCATCTGTGTGTCCAGGGAAGAGTTTAAATAAATCTATGATGCACTGGA  
 CATCACTTTGATAGAAAGAGGAGAATCCTTCTATCAAGATAGGATGAAGGATATTGTAAGGAATTTGAA  
 GATAAAGGGTTTGTGCAGGTGGATGATGGCAGGAAAATGTGTTGCTGCCTGGGTGTTCTGTACCATTA  
 CAATAGTGAATCAGATGGGGCTACACTTACGACACCTCTGACCTGGCTGCCATCAAACAGAGGCTATT  
 TGAAGAAAAGCAAATAAGATTATTTATGTGGTGACAATGGACAAGCTACACACTCCAGACAGTATTT  
 GCTGCTGCTCAAATGATTGGTTGGTATGACCCTAAAGTTACTCGAGTGGCCACGTTGGATTGGTGTGG  
 TCCTAGGAGAAGACAAGAAGAAATTTAAAACACGTTTCAAGTGAAGTGTGCGCCTCATGGACCTGCTGGA  
 AGAAGGACTGAGACGGTCCATGGACAAGCTGAAGGAGAAAAGAGAGACAAGGTCTTAACTGAAGAGGAG  
 TTGAAGGCAGCTCAGACATCCGTTGCATATGGCTGCATCAAATACGCCGACCTTTCTCATAATCGCTGA  
 ATGACTACGTCTTCTCTTTGATAAGATGCTGGACGACAGAGGAAACACAGCTGCCTACCTACTGTACGC  
 CTTACCAGAATCAGGTCCATTGACGCCTGGCCAATATCGATGAGGAAATGCTGCAGAGAGCAGCTCGG  
 GAAACCAAGATCATTTTGGACCAGGAGAGGAGTGGAACTGGGACGGTGCATTTACGGTTCCCGGAAA  
 TCCTACAGAAGATCTTAGATGACCTGTTTCTCCCACTCTGTGTGATTACATTTATGAGCTAGCAACCAC  
 TTTACAGAGTTCTATGACAGCTGCTACTGTGTGGAGAAAAGATCGGCAGACTGGGAAAGTGTGAAGGTG  
 AACATGTGGCGGATGCTCCTGTGTGAAGCCGTAGCTGCTGTCATGGCCAAAGGCTTCGATATACTGGAA  
 TAAAGCCCGTCCAGAGGAT**GTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001105777

**Insert Size:** 1983 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001105777.2](#), [NP\\_001099247.2](#)

**RefSeq Size:** 2122 bp

**RefSeq ORF:** 1983 bp

**Locus ID:** 287191

**UniProt ID:** [P40329](#)

**Cytogenetics:** 10q12

**Gene Summary:** Forms part of a macromolecular complex that catalyzes the attachment of specific amino acids to cognate tRNAs during protein synthesis. Modulates the secretion of AIMP1 and may be involved in generation of the inflammatory cytokine EMAP2 from AIMP1.[UniProtKB/Swiss-Prot Function]