

## Product datasheet for **RC234855**

### **QARS1 (NM\_001272073) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | QARS1 (NM_001272073) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                     |
| Symbol:                   | QARS1                                       |
| Synonyms:                 | GLNRS; MSCCA; PRO2195; QARS                 |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-Entry (PS100001)                      |
| E. coli Selection:        | Kanamycin (25 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>RC234855 representing NM\_001272073  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

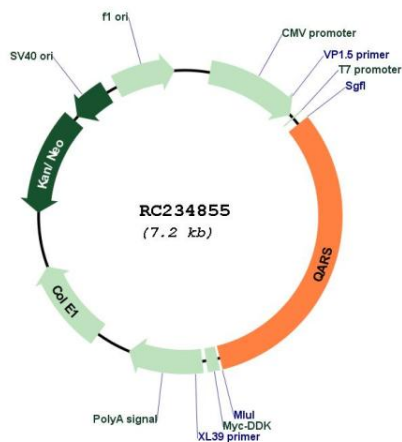
ATGGCGGCTCTAGACTCCCTGTGCTCTTCACTAGCCTCGGCCTGAGCGAGCAGAAGGCCCGCAGACGC  
 TCAAGAACTCGGCTCTGAGCGCGCAGCTGCGCGAGGCCGCTACTCAGGCTCAGCAGACCCTGGGTTCCAC  
 CATTGACAAAGCTACCGGATCCTGTTATATGGCTTGGCCTCCCGACTCAGGGATACCCGGCGTCTCTCC  
 TTCCTTGAAGCTACATAGCCTGCCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTG  
 TGGACTTCGAGCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGC  
 TGCTATTAACAGGCACCGGCCCAGCTCCTGGTGAACGTTACCATTTCAACATGGGGCTGCTGATGGGA  
 GAGGCTCGGGCTGTGCTGAAGTGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGCTCTCC  
 ACCTTCTGGGCCCAAGTTGGAGGCTGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGA  
 AACAGACCGGAGGACGGCAAGGATGTGGTGGAGAATGGCGAGACTGCTGACCAGACCCTGTCTCTGATG  
 GAGCAGCTCCGGGGGAGGCCCTTAAGTTCCACAAGCCTGGTGAAGTACAAGACCCAGGCTATGTGG  
 TCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGAGATTACTGGTGGGCAGGTACGTACCCGGTT  
 CCCGCCAGAACCAATGGAATCCTGCATATTGGACATGCCAAAGCCATCAATTTCAACTTTGGCTATGCC  
 AAGGCCAACATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGAGAAGGAGGAAGCAAAGTTCT  
 TCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCACATATGCGTCTGACTA  
 TTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGAGGGGTCTGGCTTATGTGTGCCACCAGCGA  
 GGAGAGGAGCTCAAAGGCCATAATACTCTGCCTCACCCCTGGAGAGACCCTCCATGGAGGAGTCACTGC  
 TGCTCTTTGAGGCAATGCGCAAGGGCAAGTTTTTCAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGT  
 GGAGGATGGCAAGATGGACCCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAA  
 TGGTGCATCTATCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCAC  
 TCTGCACCAAGGAATCCAGGCCGACGCTCTTCTACTTCTGGCTTTGCAATGCACTGGACGTCTATTG  
 CCCTGTGAGTGGGAGTATGGCCGCTCAACCTGCACTATGCTGTTGTCTTAAGAGGAAGATCCTCCAG  
 CTTGTAGCAACTGGTGTGTGCGGGACTGGGATGACCCACGGCTCTTTACACTCACGGCCCTGCGACGGC  
 GGGGCTTCCACCTGAGGCCATCAACAACCTTCTGTGCCCGGGTGGGAGTGACTGTGGCACAACCACAAT  
 GGAGCCACATCTCTAGAAGCCTGTGTGCGTGATGTGCTGAATGACACAGCCCCACGAGCCATGGCTGTG  
 CTGGAGTCACTACGGGTATCATCACCAACTTTCTGCTGCCAAGTCTTGGACATCCAGGTGCCCAACT  
 TCCCAGCTGATGAGACCAAGGCTTCCATCAGGTTCCCTTTGCACCCATTGTCTTCATTGAGAGGACTGA  
 CTTCAAGGAGGAGCCAGAGCCAGGATTTAAGCGCCTGGCTTGGGGCCAGCCTGTGGGCCTGAGGCATACA  
 GGCTACGTCATTGAGCTGCAGCATGTTGTCAAGGGCCCCAGTGGTGTGTAGAGAGTCTGGAGGTGACCT  
 GCAGACGGGCAGATGCTGGAGAGAAGCCAAAGGCTTTATTCACTGGGTGTACAGCCTTTGATGTGTGA  
 GGTTCCGCTCTATGAGCGACTATTCCAGCACAAGAACCCTGAAGATCCTACTGAGGTGCCTGGTGGATTT  
 TTAAGTGACCTGAACCTGGCATCACTACACGTGGTGGATGCAGCATTAGTGGACTGCTCTGTGGCCCTGG  
 CAAAACCTTCGACAAGTCCAGTTTGAGCGTCTTGGATATTTCTCCGTGGATCCAGACAGCCATCAGGG  
 AAAGCTTGTCTTTAACCGAACTGCACACTGAAGGAAGACCCAGGAAAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



|                               |  |
|-------------------------------|--|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001272073.2</a>   |
| <b>RefSeq Size:</b>           | 2810 bp  |
| <b>RefSeq ORF:</b>            | 2295 bp  |
| <b>Locus ID:</b>              | 5859   |
| <b>UniProt ID:</b>            | <a href="#">P47897</a>   |
| <b>Cytogenetics:</b>          | 3p21.31  |
| <b>Protein Families:</b>      | Druggable Genome   |
| <b>Protein Pathways:</b>      | Aminoacyl-tRNA biosynthesis, Metabolic pathways  |
| <b>MW:</b>                    | 87 kDa   |
| <b>Gene Summary:</b>          | <p>Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. In metazoans, 9 aminoacyl-tRNA synthetases specific for glutamine (gln), glutamic acid (glu), and 7 other amino acids are associated within a multienzyme complex. Although present in eukaryotes, glutaminyl-tRNA synthetase (QARS) is absent from many prokaryotes, mitochondria, and chloroplasts, in which Gln-tRNA(Gln) is formed by transamidation of the misacylated Glu-tRNA(Gln). Glutaminyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]</p> |

Product images:



Circular map for RC234855