

Product datasheet for **RN212669**

Qars (NM_001007624) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qars (NM_001007624) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Qars
Synonyms:	GlnRS; RGD1562301
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212669 representing NM_001007624
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACTCCGATTTCGCTGGCGCTGTTCACCGCCTTGGCCTTAGCGAAAACAAGCCCGCAGACTC
 TCAAGAACCGCGCTTTGAGCACTCAGCTGCGCAGGCGGCCGACCCAGGCACAGCAGACTCTAGGGTCTAC
 CATCGACAAGGCTACTGGACCCCTGCTATATGGCTTGGCCTCCCGACTCAGGGATACTCGCGCTTTTCT
 TTCCTTGTGGGCTATATAGCCAATAAGAAGATCCACACTGAGCTCCAGCTGAGCGCTGCTTTGAATATG
 TTCGGAGTCATCCCTGGATCCCATTGATACCAAGGACTTCGAGCAGGAATGTGGTGTGGTGGTGGT
 GACACCAGAGCAGATTGAGGAAGCTGTGGAGGCCACCATAAATAGGCATCGTCCACAGCTTTAGTGAA
 CGGTACCGGTTCCAGCATGGGCTGTTAATGGGAGAGGCTCGGGCTGCGCTCAGATGGGCAGATGGCAAAA
 TGATCAAGAACGAAGTGATATGCAGGCTCCACCTGCTGGGGCCAAAATGGAAGCTGATCTGGAGAA
 GAAGCCAAAGGTGGCAAAGGCACGGCTGGAAGAAACAGACAGGAAGACAGCAAAAGATGTGGTGGAGAAC
 GGTGAAGTGGCTGGCCAGACCCTGCTCTAATGGAGCAGCTCCGGGGAGAGGCCCTGAAGTTTCATAAAC
 CAGGTGAGAACTATAAGACGCCAGGCTATGTGACCACGCCACATACCATGGATCTGCTAAAGCAGCACCT
 GGAGATCACTGGGGGACAGGTACGAACCCGGTTTCCCCAGAGCCCAATGGAATCCTGCATATTGGACAT
 GCCAAAGCCATCAATTTCAACTTTGGTTATGCCAAGGCCAACACGGTATTTGTTTTCTGCGTTTTGATG
 ACACCAACCCTGAGAAGGAAGAAGCGAAATTTCTTACTGCTATTTATGACATGGTGACCTGGCTGGGTTA
 CACACCTTACAAAGTAACATACGCTTCTGACTATTTTGACCAGTTGTATGCCTGGGCTGTGGAACGATC
 CGTAGGGGTCAAGCTTATGTTTGTATCAGAGAGGGGAAGAGCTCAAAGGCCATAACCCCTTACCTTAC
 CATGGAGAGACCCGCCTATTGAGGAATCCTTGTCTCTTTGAGGCAATGCGAAAGGGCAAATTTGCAGA
 GGGTGAGGCCACGCTTCGAATGAAGTTGGTGATGGAAGATGGAAGATGGACCCTGTGGCCTATCGAGTC
 AAGTATACGCCACACCATCGCACAGGGGATAAATGGTGCATCTACCCACCTACGACTACACACTGTCT
 TCTGTGATTCCATCGAGCACATCACCCACTCACTGTGTACCAAGGAATTCAGGCTCGACGGTCTTCCCTA
 CTTTTGGTTGTGAATGCACTGGATGTCTACTGCCCTGTCCAGTGGGAATATGGCCGCTCAATCTGCAC
 TATGCTGTTGTCTCAAAGCGGAAGATTCTCCAGCTTGTGGCAGCTGGTGTCTTCCGGACTGGGATGACC
 CACGGCTCTTCACTTACTGCCCTACGACGACGGGTTTTCCACCTGAGGCCATCAACAACCTTCTGTGC
 TCGGGTGGGGTACAGTGGCACAGACCACAATGGAACCTCATCTTCTGGAAGCCTGTGTGCGTGACGTG
 CTGAATGACACAGCCCCGCTGCCATGGCTGTGCTAGAGCCACTACAAGTTGTCATCACTAACTTTCCTG
 CTCCTCAAGCCCTTGACATCCGAGTGCCAAACTTCCAGCTGATGAGACCAAGGGCTTCCACCAGGTTCC
 TTTTGCTTCCACTGTCTTATTGAGAGAACGGACTTTAAGGAGGAGTCAGAACCAGGCTATAAGCGCCTA
 GCCTGGGGCCAGCCTGTGGGCTGAGACACACTGGTTACGTCAATTGAACTGCAGCATGTTGTGAGGGCT
 CCAGTGGCTGTGTGAATGCTTGGAGGTGACCTGTAGACGAGCTGATGCTGGAGAGAAGCCCAAGGCCTT
 TATCACTGGGTGTACAGCCTCTGGTGTGTGAGATTGCGCTCTATGAGCGACTATTCCAGCACAAGAAC
 CCTGAAGACCCTGTGAAGTGCCTGGTGGATTCCCTAAGTACTTGAACCCGGCATCACTACAAGTGATTA
 AAGGAGCGTTGGTGGACTGCTCTGTGGCTTTGGCAAAGCCCTTTGACAAGTTCCAGTTTGGAGCCCTTGG
 GTACTTCTGTGGATCCGGATAGCCATCAAGGACAGGTTGTCTTCAACCGAACAGTCACACTCAAAGAA
 GACCCAGGCAAAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001007624
Insert Size: 2328 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:	<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_001007624.1 , NP_001007625.1
RefSeq Size:	2794 bp
RefSeq ORF:	2328 bp
Locus ID:	290868
UniProt ID:	Q66H61
Cytogenetics:	8q32
Gene Summary:	Glutamine--tRNA ligase. Plays a critical role in brain development.[UniProtKB/Swiss-Prot Function]