

Product datasheet for **MR209351**

Qars (NM_001168270) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Qars
Synonyms:	1110018N24Rik; 1200016L19Rik; C80286; GLNRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209351 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGAGGTGCTTCACCTTTGGGGCCCAAGATGGAAGCTGATCTGGTGAAGAAGCCCAAGGTGGCAA
AGGCACGGCTGGAAGAAACAGACCGGAAGACAGCAAAAGATGTGGTGGAGAAAGGTGAAGTGGCTGGCCA
GACCTGTCTCTGATGGAGCAGCTCCGGGGGAGGCACTTAAGTTTCATAAGCCAGGTGAGAACTACAAG
ACGCCAGGCTATGTGATCACTCCATATACCATGGATCTGCTGAAGCAGCACCTGGAGATCACTGGGGGAC
AGGTACGTACGCGGTTCCCTCCAGAGCCCAATGGAATCCTGCATATTGGACACGCCAAAGCCATCAATTT
CAACTTTGGTTATGCCAAGGCCAACAATGGTATCTGTTTCTGCGCTTTGATGACACCAACCTGAGAAA
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CATATGCTTCTGACTATTTGACCAGCTGTATGCCTGGGCCGTGGAACCATCCATGGGGGTCTTGCTTA
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GAATGAAGTTGGTGTGGAAGATGGCAAGATGGACCCCGTGGCCTATCGAGTCAAGTACACGCCACACCA
TCGCACAGGGGACAAATGGTGATCTACCCACCTATGACTACACACATGTCTGTGTGACTCCATTGAG
CACATTACCACTCGTTGTGTACCAAGGAGTTCAGGCTCGACGGTCTTCTACTTTTGGTTATGTAACG
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GCGCAAGATTCTCCAGCTTGTAGCAGCTGGTGTGCTCGGGACTGGGACGATCCACGGCTCTTCACTC
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ATCCGAGTGCCAAATTTCCAGCTGATGAGACCAAGGGTTTTCCACCAGGTTCTTTTGTCTCCACTGTCT
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CGCTTGGAGGTGACCTGTAGACGAGCTGATGCTGGAGAGAAGCCCAAGGCCTTTATTCACTGGGTATCAC
AGCCTTTGGTGTGTGAGATTGCCTCTATGAGTGCCTATTCCAGCACAAGAACCCGAAGACCTGTTGA
AGTGCCTGGTGGATTCTAAGTGACCTGAACCCGGCGTCACTACAAGTGGTGAAGGAGCATTAGTGGAC
TGCTCTGTGGCTTTGGCAAAGCCCTTGACAAGTCCAGTTTGAGCGCCTTGGGTACTTCTCTGTGGATC
CAGACAGCCATCAAGGACAGATTGTCTTCAACCGAACTGTCACACTAAAAGAAGACCCAGGCAAAATA

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ACAAGGATGACGACGATAAGGTTTAA

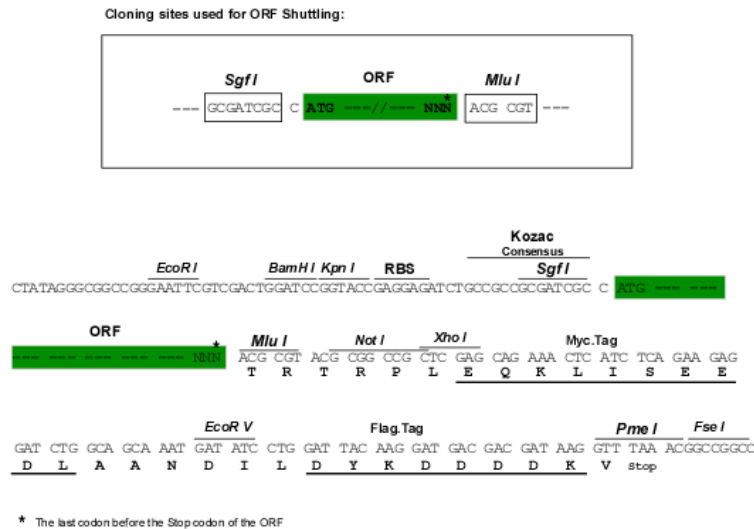
Protein Sequence: >MR209351 protein sequence
Red=Cloning site Green=Tags(s)

MTEVLHLLGPKMEADLVKPKVAKARLEETDRKTAKDVEKGEVAGQTLSEQLRGEALKFHKPGENYK
TPGYVITPYTMDLLKQHLEITGGQVRTRFPPEPNGILHIGHAKAINFNFGYAKANNNGICFLRFDDTNPEK
EEAKFFTAIYDMVTWLGYTPYKVITYASDYFDQLYAWAVELIHGGLAYVCHQORVEELKGHNPLPSPWRDRP
KEESLLLFEAMRKGFAGEATLRMKLVMDGKMDPVAYRVKYTPHHRTGDKWCIYPTYDYTHCLCDSIE
HITHSLCTKEFQARRSSYFWLCNALKVYCPVQWEYGRNLHYAVVSKRKILQLVAAGAVRDWDDPRLFTL
TALRRRGFPPEAINNFCA RVGVTAQTMEPHLLEACVRDLNDAAPRAMAVLEPLQVVITNFPAPKPLD
IRVPNFPADETKGFHQVPFASTVFIERSDFKEESEPQYKRLASGPVGLRHTGYVIELQNIIVRGSSGCV
RLEVTCCRADAGEKPKAFIHWVSQPLVCEIRLYECLFQHKNPEDPVEVPGGFLSDLNPASLQVVEGALVD
CSVALAKPFDKQFERLGYFSVDPDSHQGQIVFNRTVTLKEDPGKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001168270

ORF Size: 1818 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:

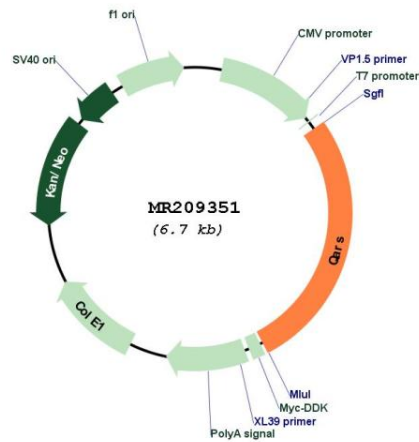
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001168270.1](#), [NP_001161742.1](#)

RefSeq Size:	2155 bp
RefSeq ORF:	1821 bp
Locus ID:	97541
Cytogenetics:	9 F2
MW:	68.8 kDa
Gene Summary:	Glutamine--tRNA ligase. Plays a critical role in brain development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209351