

Product datasheet for **RN211743**

Qrs11 (NM_001014034) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qrs11 (NM_001014034) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Qrs11
Synonyms:	MGC105526
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211743 representing NM_001014034
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGCCGGACTCTCCGAGAAGTTTCTTCAGCCCTGAAGCAGGGCCACATTACACCAACAGAGCTCT
 GCAAGAAATGTCTCTCCCTCATCAAGAAAACCAAGTACCTAAATGCTTACATTACCGTTTCAGAAGAGGT
 GGCTTTAAAGCAAGCTGAAGAATCGGAGAAAAGGTACAAGCAAGGTCAGTCTCTTGGAGATTGGATGGA
 ATCCCTGTTGCTGTAAGAGACAATTTCAGCACGTCGCGCATTGAGACAACATGTGCATCAAATATGTAA
 AAGGTTATTTACCGCTTACAATGCCACAGTCGTTAGAGGCTGTTGGATCAGGGAGCGCTGCTCATGGG
 GAAACAAATCTGGATGAGTTTGCCATGGGATCTGGAAGCACAGATGGCGTGTGGACCAAGTAAAAAC
 CCCTGGACGATTCAAAGCAGTACAGAGAAAGAAGCCGGCAGGATGCACAGGAGGATTCACTGGCTGA
 TAACTGGAGGAAGCTCGGGCGGCAGCGCAGCGGCTGTGGCTGCGTTCACGTGCTTTGCGGCTCTGGGTC
 AGACACTGGCGGATCCACCAGGAACCTGCTGCCATTGCGGGACCGTTGTTTCAAACCAAGCTATGGC
 TTAGTTTCCCGACACGGCCTTATCCCTGGTGAATTCATGGACGTGCCAGGAATCTTTACCAGATGTG
 TGGACGATACGGCGATTGTGCTAGGTGTGCTGGCTGGACATGACCCAAAGATCCACCACAGTAAACGA
 CCCTGTTAAGCCAACCACGCTTCCAGCGTGCCGGATGTGAGCGGACTGTGATTGGAATCCGAAGGAA
 TATCTAGTACCAGAATTGTCAAGTGAGATACGGTCTCTCTGGTCCCAAGCTGCTGACCTCTTTGAGGCTG
 AAGGAGCCAGAGTGATTGAGGTGTGTCTGCCACACCTGCTACTCCATCGTCTGCTACCACGACTGTG
 CACATCAGAAGTAGCATCAAATATGGCGAGATTGACGGGCTACAGTACGGTCACAGGCTGCTGTTGAT
 ATGTCGCTACTGAAGCCCTGTATGCGGCTACCAGACAGGAAGGGTTCAATGACGTGGTGAAAGGAAGAA
 TTCTCTCGGAAACTTTTTCTTATTAAGAAAATTATGAGAATTATTTGTCAAGGCACAGAAAGTGAG
 CGGTCTCATTGTGAATGATTTCTGTAATGTTTTGGCTCTGGGGTGGATGCTCTGCTGACACCCACCACC
 CTGACTCAGGCAGTGCCGTACTTGGAGTTCATCAAAGAAGACAACAGGACACGCAGTGCCAGGATGACA
 TTTTCACGCGAGGCTGTGAACATGGCAGGCTGCCAGCAGTGAATGTCCCTGTGGCCCTCTCAAGCCAAGG
 GCTGCCAATAGGACTGCAGCTAATTGGACGGGCATTCTGTGACCAGCAGCTTCTGACAGTTGCCAAGTGG
 TTTGAAAAACAAGTACAGTTTCTGTTATTCACTGCAGGACCTCATGGACGATGGCTCCTTGGTTCCTG
 AGAATGGAAAGTTAATTCTGGTCTCTAACCCAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001014034

Insert Size: 1578 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_001014034.1](#), [NP_001014056.1](#)

RefSeq Size: 1965 bp

RefSeq ORF: 1578 bp

Locus ID: 309911

UniProt ID: [Q5FWT5](#)

Cytogenetics: 20q13

Gene Summary: Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).[UniProtKB/Swiss-Prot Function]