

Product datasheet for **MG217364**

Qrs11 (NM_001081054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qrs11 (NM_001081054) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Qrs11
Synonyms:	2700038P16Rik; C80053; GatA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217364 representing NM_001081054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCTGGCCGACTCTCCGAGAAGTTCTGCGGCACTGAAGCAGGGCCAGGTTACACCAACAGAGCTCT
 GCAAGAACTGTCTCTCCCTCATCAAGAAAACCAAGTATCTAAATGCTTACATTACTGTATCAGAAGAGGT
 CGCTTTAAAGCAAGCTGAAGAATCAGAGAAAAGATACAAGCAAGGTCAGTCTCTTGAGATTTAGATGGA
 ATTCTGTTGCTGTGAAAGACAACCTTTAGCACAACTGGCATTGAGACAACATGTGCATCAAATATGTTAA
 AAGGTTACGTACCACCTTACAATGCTACAGTAGTTCAGAAGCTGTTGGATCAGGGTGCCCTACTCATGGG
 GAAAACAAATTTAGATGAGTTTGCTATGGGGTCTGGAAGCACAGATGGTGTGTTGGGCCAGTTAGAAAC
 CCCTGGACTTACTCGAAGCAGTACAGAGAGAGAAGCCGGCAGGATGCAGGTGATGATTCCCACTGGCTGA
 TCACTGGCGGAAGCTCGGGCGGCAGCGCAGCAGCCGTGGCCGCGTTCACCTGCTTTGCGGCTCTCGGATC
 GGACACTGGTGGGTCCACCAGGAACCTGCTGCCCACTGTGGGATTGTTGGTTTCAAACCAAGCTATGGC
 TTGGTTTTCACGGCACGGCCTTATCCCCTGGTGAATTCAATGGACGTGCCAGGAATCCTCACCAGATGTG
 TGGACGACACAGCAATTGTGTTAGGTACTGCTGGACATGACCCCAAAGATTCACCACAGTGAGAAA
 CCCTGCTCAGCCGGCCTCGGTTCCCGCGGGATGGATGTGAGCAGGCTGTGTATAGGAATCCCAAAGGAA
 TATCTAGTACCAGAATTGTCAAGTGAAGTACGGTCTCTCTGGTCCCAAGCTGCTGACCTCTTTGAGTCTG
 AAGGAGCCAAAGTGATTGAGGTGTCTCTGCCACACACCTGTTACTCAATTGTCTGCTACCATGCTCTGTG
 CACATCAGAAGTAGCATCGAATATGGCAAGATTGATGGGCTCCAGTATGGTCATAGGTCTGGTGTGAT
 GTGTCCACTGAAGCCATGTACGCCGCAACCAGACAGGAAGGCTTCAATGATGTGGTGAGAGGAAGAATTC
 TCTCAGGAACTTTTTCTTATTTAAAGAAAATTATGAGAATTATTCGTCAGGCACAGAAAGTAGGGCG
 CCTCATTGTGAAGGATTTGTGGATGTTTTGAGTCTGGGGTGGATGTCCTGCTAACCCCCACCACCCTG
 ACTGAGGCAGTGCCGTACCTGGAGTTCATCAAAGAAGACAACAGGACACGCAGCGCCAGGATGATATT
 TCACTCAAGCTGTCAATATGGCAGGCTTGCCAGCAGTGAAGTGTCCCTGTGGCCCTCTCAAACCAAGGCT
 GCCAATAGGACTGCAGTTAATTGGACGTGCATTTTGTGACCAGCAACTTCTGACAGTTGCCAAGTGGTTT
 GAAAAACAAGTACAGTTTCTGTTATTCAACTGCAGGGCCTCATGGATGATGGCTCGTTGGTTCTTGAAA
 ATGGAAAGTTAACGTCTTCTCTGACCCAGAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217364 representing NM_001081054
 Red=Cloning site Green=Tags(s)

MLGRTLREVSAAALKQGQVTPTELCKNCLSLIKKTKYLNAYITVSEEVALKQAESEKRYKQGQSLGDLDG
 IPVAVKDNFSTTGIETTCASNMLKGYVPPYNATVVQKLLDQGALLMGKTNLDEFAMGSGSTDGVFGPVRN
 PWTYSKYRERSRQDAGDDSHWLITGGSSGGSAAVAATCFALGSDTGGSTRNPAAHCGIVGFKPSYG
 LVSRHGLIPLVNSMDVPILTRCVDDTAIVLGTLAGHDPKSTTVRNPAQPASVPGMDVSRLCIGIPKE
 YLVPELSSEVRSLSQAADLFESEGAKEVSLPHTCYSIVCYHVLCTSEVASNMARFDGLQYGHRSVD
 VSTEAMYAATRQEGFNDVVRGRILSGNFFLLKENYENYFVKAQKVRRLIVKDFVDVFESGVDVLLTPTTL
 TEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPAVSVPAVALSNQGLPIGLQLIGRAFCDQQLLTVAKWF
 EKQVQFPVIQLQLMDDGSLVLENGKLTSSSLTQR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001081054

ORF Size: 1575 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_001081054.2](#), [NP_001074523.1](#)

RefSeq Size: 1970 bp

RefSeq ORF: 1578 bp

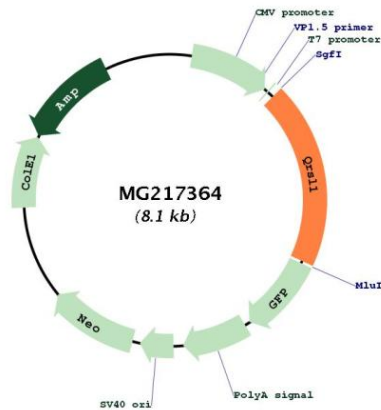
Locus ID: 76563

UniProt ID: [Q9CZN8](#)

Cytogenetics: 10 B2

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]

Product images:



Circular map for MG217364