

Product datasheet for **MR217364**

Qrs11 (NM_001081054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qrs11 (NM_001081054) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qrs11
Synonyms:	2700038P16Rik; C80053; GatA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217364 representing NM_001081054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGCCGACTCTCCGAGAAGTTTCTGCGCACTGAAGCAGGGCCAGGTTACACCAACAGAGCTCT
 GCAAGAACTGTCTCTCCCTCATCAAGAAAACCAAGTATCTAAATGCTTACATTACTGTATCAGAAGAGGT
 CGCTTTAAAGCAAGCTGAAGAATCAGAGAAAAGATACAAGCAAGGTCAGTCTCTTGAGATTTAGATGGA
 ATTCTGTTGCTGTGAAAGACAACCTTTAGCACAACTGGCATTGAGACAACATGTGCATCAAATATGTTAA
 AAGGTTACGTACCACCTTACAATGCTACAGTAGTTCAGAAGCTGTTGGATCAGGGTGCCCTACTCATGGG
 GAAAACAAATTTAGATGAGTTTGCTATGGGGTCTGGAAGCACAGATGGTGTGTTGGGCCAGTTAGAAAC
 CCCTGGACTTACTCGAAGCAGTACAGAGAGAGAAGCCGGCAGGATGCAGGTGATGATTCCCACTGGCTGA
 TCACTGGCGGAAGCTCGGGCGGCAGCGCAGCAGCCGTGGCCGCGTTCACCTGCTTTGCGGCTCTCGGATC
 GGACACTGGTGGTCCACCAGGAACCTGCTGCCCACTGTGGGATTGTTGGTTTCAAACCAAGCTATGGC
 TTGGTTTTCACGGCACGGCCTTATCCCCTGGTGAATTCATGGACGTGCCAGGAATCCTCACCAGATGTG
 TGGACGACACAGCAATTGTGTTAGGTACACTGGCTGGACATGACCCCAAAGATCCACCACAGTGAGAAA
 CCCTGCTCAGCCGGCCTCGGTTCCCGCGGGATGGATGTGAGCAGGCTGTGTATAGGAATCCCAAAGGAA
 TATCTAGTACCAGAATTGTCAAGTGAAGTACGGTCTCTCTGGTCCCAAGCTGCTGACCTCTTTGAGTCTG
 AAGGAGCCAAAGTGATTGAGGTGTCTCTGCCACACCTGTTACTCAATTGTCTGCTACCATGCTCTGTG
 CACATCAGAAGTAGCATCGAATATGGCAAGATTGATGGGCTCCAGTATGGTCATAGGTCTGGTGTGAT
 GTGTCCACTGAAGCATGTACGCCGCAACCAGACAGGAAGGCTTCAATGATGTGGTGAGAGGAAGAATTC
 TCTCAGGAACTTTTTCTTATTAAGAAAATTATGAGAATTATTCGTCAGGCACAGAAAGTGAGGCG
 CCTCATTGTGAAGGATTTTGTGGATGTTTTGAGTCTGGGTGGATGTCCTGCTAACCCCCACCACCCTG
 ACTGAGGCAGTGCCGTACCTGGAGTTCATCAAAGAAGACAACAGGACACGACGCGCCAGGATGATATT
 TCACTCAAGCTGTCAATATGGCAGGCTTCCAGCAGTGAAGTGTCCCTGTGGCCCTCTCAAACCAAGGCT
 GCCAATAGGACTGCAGTTAATTGGACGTGCATTTTGTGACCAGCAACTTCTGACAGTTGCCAAGTGGTTT
 GAAAAACAAGTACAGTTTCTGTTATTCAACTGCAGGGCCTCATGGATGATGGCTCGTTGGTTCTTGAAA
 ATGGAAAGTTAACGTCTGCTTCTCTGACCCAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217364 representing NM_001081054
 Red=Cloning site Green=Tags(s)

MLGRTLREVSAAALKQGQVTPTELCNCLSLIKTKYLNAYITVSEEVALKQAESEKRYKQGQSLGDLDG
 IPVAVKDNFSTTGIEETTCASNMLKGYVPPYNATVVQKLLDQGALLMGKTNLDEFAMGSGSTDGVFGPVRN
 PWTYSKQYRERSRQDAGDDSHWLITGGSSGSAVAFAFTCAALGSDTGGSTRNPAAHCGIVGFKPSYG
 LVSRHGLIPLVNSMDVPGILTRCVDDTAIVLGLTAGHDPKDSTTVRNPAQPASVPGMDVSRCLIGIPKE
 YLVPELSSEVRLWSQAADLFESEGAKEVSLPHTCYSIVCYHVLCTSEVASNMARFDGLQYGHRSVD
 VSTEAMYAATRQEGFNDVVRGRLSGNFFLLKENYENYFVKAQKVRRLIVKDFVDVFESGVDVLLTPTTL
 TEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPAVSVPAVALSNQGLPIGLQLIGRAFCQQLLTVAKWF
 EKQVQFPVQLQLMDDGSLVLENGKLTASLTQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

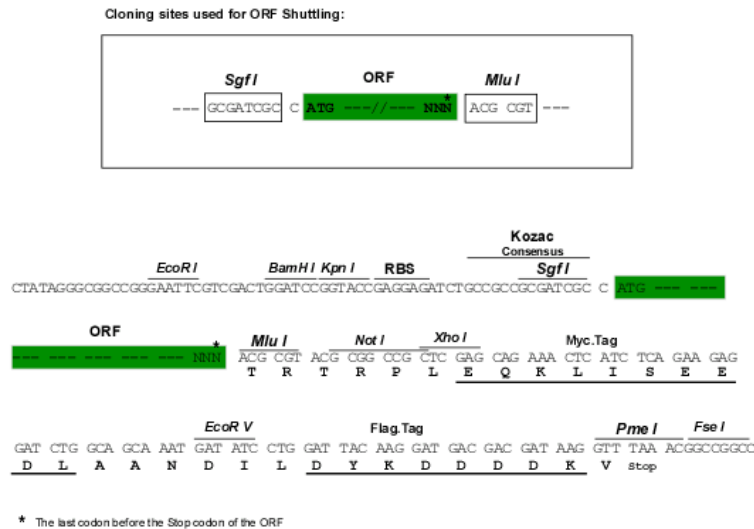
Chromatograms:

https://cdn.origene.com/chromatograms/mm9062_a11.zip

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

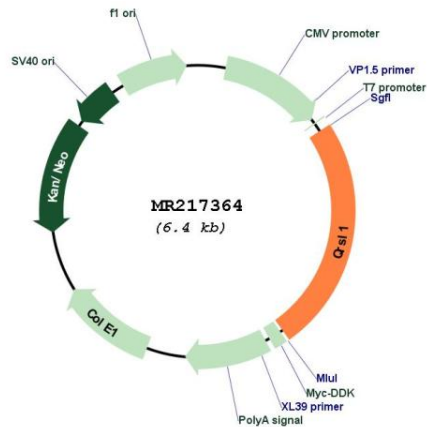
UniProt ID: Q9CZN8

Cytogenetics: 10 B2

MW: 56.8 kDa

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 MR217364