

Product datasheet for **RG200111**

QRSL1 (NM_018292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QRSL1 (NM_018292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	QRSL1
Synonyms:	COXPD40; GatA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200111 representing NM_018292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGCCGGAGCCTCCGAGAAGTTTCTGCGCACTGAAACAAGGCCAAATTACACCAACAGAGCTCT
 GTCAAAAATGTCTCTCTTATCAAGAAGACCAAGTTTCTAAATGCCTACATTACTGTGTGAGAAGAGGT
 GGCTTAAAAACAAGCTGAAGAATCAGAAAAGAGATATAAGAATGGACAGTCACTTGGGGATTAGATGGA
 ATTCTATTGCAGTAAAAGACAATTTAGCACTTCTGGCATTGAGACAACATGTGCATCAAATATGCTGA
 AAGTTTATATACCACTTATAATGCTACAGTAGTTCAGAAGTTGTTGGATCAGGGAGCTCTACTAATGGG
 AAAACAAATTTAGATGAGTTTGTATGGGATCTGGGAGCACAGATGGTGTATTTGGACCAGTTAAAAAC
 CCCTGGAGTTATTCAAAACAATATAGAGAAAAGAGGAAGCAGAATCCCCACAGCGAGAATGAAGATTCAG
 ACTGGCTGATAACTGGAGGAAGCTCAGGTGGGAGTGCAGCTGCTGTATCGGCGTTCACATGCTACGCGGC
 TTTAGGATCAGATACAGGAGGATCGACCAGAAATCCTGCTGCCCACTGTGGGCTTGTGGTTTCAAACCA
 AGCTATGGCTTAGTTCCCGTCATGGTCTCATTCCCCTGGTGAATTCGATGGATGTGCCAGGAATCTTAA
 CCAGATGTGTGGATGATGCAGCAATTGTGTTGGGTGCACTGGCCGGACCTGACCCAGGGACTCTACCAC
 AGTACATGAACCTATTAATAAACCATTCATGCTTCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGA
 ATTCCAAGGAATATCTTGTACCGGAATTATCAAGTGAAGTACAGTCTCTTTGGTCCAAAGCTGCTGACC
 TCTTTGAGTCTGAGGGGGCCAAAGTAATTGAAGTATCCCTTCTCACACCAAGTATTCAATTGTCTGCTA
 CCATGTATTGTGCACATCAGAAGTGGCATCGAATATGGCAAGATTTGATGGGCTACAATATGGTCACAGA
 TGTGACATTGATGTGCCACTGAAGCCATGTATGCTGCAACCAGACGAGAAGGGTTAATGATGTGGTGA
 GAGGAAGAATTTCTCAGGAACTTTTTCTTATTAAGAAAACATGAAAATTATTTGTCAAAGCACA
 GAAAGTGAGACGCCTCATTGCTAATGACTTTGTAATGCTTTTAACTCTGGAGTAGATGTCTTGCTAACT
 CCCACCACCTTGAGTGAGGCAGTACCATACTTGGAGTTTCAAAAGAGGACAACAGAACCAGGAGTCCCC
 AGGATGATATTTTACACAAGCTGTAAATATGGCAGGATTGCCAGCAGTGAATATCCCTGTTGCACTCTC
 AAACCAAGGGTTGCCAATAGGACTGCAGTTTATTGGACGTGCGTTTTGTGACCAGCAGCTTCTTACAGTA
 GCCAAATGGTTTAAAAACAAGTACAGTTTCTGTTATTCAACTCAAGAACTCATGGATGATTGTTTACAG
 CAGTCTTGAAAATGAAAAGTTAGCCTCTGTCTCTCTAAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200111 representing NM_018292
 Red=Cloning site Green=Tags(s)

MLGRSLREVSAALKQGQITPTLCLQKLSLIKTKFLNAYITVSEEVALKQAESEKRYKNGQSLGDLTG
 IPIAVKDNFSTSGIETTCASNMLKGYIPPYNATVVQKLLDQGALLMGKTNLDEFAMGSGSTDGVFGPVKN
 PWSYSKYREKRKQNPHESEDWLTITGGSSGSAAVSAFTCYAALGSDTGGSTRNPAAHCLGVGFKP
 SYGLVSRHGLIPLVNSMDVPGILTRCVDDAAIVLGALAGPDPRDSTTVHEPINKPFMLPSLADVSKLCIG
 IPKEYLVPELSSEVQSLWSKAADLFESEGAKEVIEVSLPHTSYSIVCYHVLCTSEVASNMARFDGLQYGHR
 CDIDVSTEAMYAATRREGFNDVVRGRILSGNFFLLKENYENYFVKAQKVRRLIANDFVNAFNSGVDVLLT
 PTTLSEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPAVSIPVALSNQGLPIGLQFIGRAFCDQQLLTV
 AKWFEKQVQFPVIQLQELMDDCSAVLENEKLASVSLKQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018292

ORF Size: 1584 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.

RefSeq: [NM_018292.5](#)

RefSeq Size: 3244 bp

RefSeq ORF: 1587 bp

Locus ID: 55278

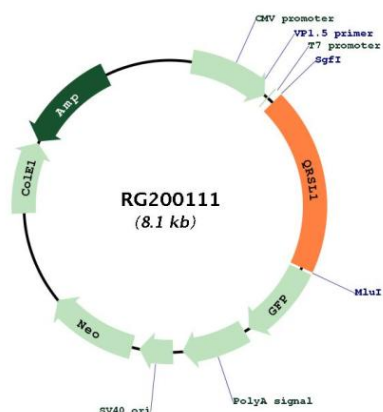
UniProt ID: [Q9H0R6](#)

Cytogenetics: 6q21

Domains: Amidase

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 RG200111