

Product datasheet for **RC200111**

QRSL1 (NM_018292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QRSL1 (NM_018292) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	QRSL1
Synonyms:	COXPD40; GatA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC200111 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGCCGGAGCCTCCGAGAAGTTTCTGCGCACTGAAACAAGGCCAAATTACACCAACAGAGCTCT
 GTCAAAAATGTCTCTCTTATCAAGAAGACCAAGTTTCTAAATGCCTACATTACTGTGTGAGAAGAGGT
 GGCCTTAAACAAGCTGAAGAATCAGAAAAGAGATATAAGAATGGACAGTCACTTGGGGATTAGATGGA
 ATTCTATTGCAGTAAAAGACAATTTGAGCACTTCTGGCATTGAGACAACATGTGCATCAAATATGCTGA
 AAGTTTATATACCACTTATAATGCTACAGTAGTTCAGAAGTTGTTGGATCAGGGAGCTCTACTAATGGG
 AAAACAAATTTAGATGAGTTTGTATGGGATCTGGGAGCACAGATGGTGTATTTGGACCAGTTAAAAAC
 CCCTGGAGTTATTCAAAACAATATAGAGAAAAGAGGAAGCAGAATCCCCACAGCGAGAATGAAGATTCAG
 ACTGGCTGATAACTGGAGGAAGCTCAGGTGGGAGTGCAGCTGCTGTATCGGCGTTACATGCTACGCGGC
 TTTAGGATCAGATACAGGAGGATCGACCAGAAATCCTGCTGCCCACTGTGGGCTTGTGGTTTCAAACCA
 AGCTATGGCTTAGTTCCCGTCATGGTCTCATTCCCCTGGTGAATTCGATGGATGTGCCAGGAATCTTAA
 CCAGATGTGTGGATGATGCAGCAATTGTGTTGGGTGCACTGGCCGGACCTGACCCAGGGACTCTACCAC
 AGTACATGAACCTATTAATAAACCATTCATGCTTCCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGA
 ATTCCAAGGAATATCTTGTACCGGAATTATCAAGTGAAGTACAGTCTCTTTGGTCCAAAGCTGCTGACC
 TCTTTGAGTCTGAGGGGGCCAAAGTAATTGAAGTATCCCTTCTCACACCAAGTATTCAATTGTCTGCTA
 CCATGTATTGTGCACATCAGAAGTGGCATCGAATATGGCAAGATTGATGGGCTACAATATGGTCACAGA
 TGTGACATTGATGTGCTCACTGAAGCCATGTATGCTGCAACCAGACGAGAAGGGTTAATGATGTGGTGA
 GAGGAAGAATCTCTCAGGAACTTTTTCTTATTTAAAGAAAACATGAAAATTATTTGTCAAAGCACA
 GAAAGTGAGACGCCTCATTGCTAATGACTTTGTAATGCTTTTAACTCTGGAGTAGATGTCTTGCTAACT
 CCCACCACCTTGAGTGAGGCAGTACCATACTTGGAGTTTCAAAAGAGGACAACGAACCCGAAGTGCCC
 AGGATGATATTTTACACAAGCTGTAAATATGGCAGGATTGCCAGCAGTGAGTATCCCTGTTGCACTCTC
 AAACCAAGGGTTGCCAATAGGACTGCAGTTTATTGGACGTGCGTTTTGTGACCAGCAGCTTCTTACAGTA
 GCCAAATGGTTTGAACCAAGTACAGTTTCTGTTATTCAACTCAAGAACTCATGGATGATTGTTTCAG
 CAGTCCTGAAAATGAAAAGTTAGCCTCTGCTCTCTCTAAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200111 protein sequence
 Red=Cloning site Green=Tags(s)

MLGRSLREVSAAALKQGQITPTCLCQKLSLIKTKFLNAYITVSEEVALKQAESEKRYKNGQSLGDLDG
 IPIAVKDNFSTSGIETTCASNMLKGYIPPNATVVQKLLDQGALLMGKTNLDEFAMGSGSTDGVFGPVKN
 PWSYSKQYREKRKQNPHESEDSDLITGGSSGGSAAAVSAFTCYAALGSDTGGSTRNPAHCHGLVGFKP
 SYGLVSRHGLIPLVNSMDVPGILTRCVDDAAIVLGALAGPDRDSTTVHEPINKPFMLPSLADVSKLCIG
 IPKEYLVPELSSEVQSLWSKAADLFESEGAKEVIEVSLPHTSYSIVCYHVLCTSEVASNMARFDGLQYGHR
 CDIDVSTEAMYAATRREGFNDVVRGRILSGNFFLLKENYENYFVKAQKVRRLIANDFVNAFNSGVDVLLT
 PTTLSEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPVSIIPVALSNQGLPIGLQFIGRAFCQQLLTV
 AKWFEKQVQFPVIQLQELMDDCSAVLENEKLASVSLKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6729_c05.zip

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.

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

RefSeq: [NM_018292.5](#)

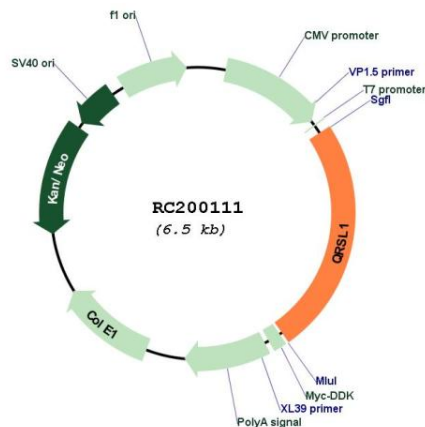
RefSeq Size: 4118 bp

RefSeq ORF: 1587 bp

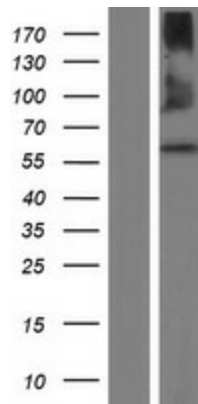
Locus ID: 55278

UniProt ID:	<u>Q9H0R6</u>
Cytogenetics:	6q21
Domains:	Amidase
MW:	57.5 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 RC200111



Western blot validation of overexpression lysate (Cat# [LY413140]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200111 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).