

Product datasheet for **SC113600**

QRSL1 (NM_018292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QRSL1 (NM_018292) Human Untagged Clone
Tag:	Tag Free
Symbol:	QRSL1
Synonyms:	COXPD40; GatA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113600 sequence for NM_018292 edited (data generated by NextGen Sequencing)

```
ATGCTGGGCCGGAGCCTCCGAGAAGTTTCTGCGGCACTGAAACAAGGCCAAATTACACCA
ACAGAGCTCTGTCAAAAATGTCTCTCTTATCAAGAAGACCAAGTTTCTAAATGCCTAC
ATTACTGTGTGAGAAGAGGTGGCCTTAAACAAGCTGAAGAATCAGAAAAGAGATATAAG
AATGGACAGTCACTTGGGGATTTAGATGGAATTCCTATTGCAGTAAAAGACAATTCAGC
ACTTCTGGCATTGAGACAACATGTCATCAAATATGCTGAAAGGTTATATACCACCTTAT
AATGCTACAGTAGTTTCAGAAAGTTGTTGGATCAGGGAGCTCTACTAATGGGAAAAACAAAT
TTAGATGAGTTTGCTATGGGATCTGGGAGCACAGATGGTGTATTTGGACAGTTAAAAAC
CCCTGGAGTTATTCAAAACAATATAGAGAAAAGAGGAAGCAGAATCCCCACAGCGAGAAT
GAAGATTCAGACTGGCTGATAACTGGAGGAAGCTCAGGTGGGAGTGCAGCTGCTGTATCG
GCGTTCACATGCTACGCGGCTTTAGGATCAGATACAGGAGGATCGACCAGAAATCCTGCT
GCCCACTGTGGGCTTGTGGTTTCAAACCAAGCTATGGCTTAGTTCCCGTCATGGTCTC
ATTCCCCTGGTGAATTCGATGGATGTGCCAGGAATCTTAACCAGATGTGTGGATGATGCA
GCAATTGTGTTGGGTGCACTGGCCGGACCTGACCCAGGGACTCTACCACAGTACATGAA
CCTATTAATAAACCAATTATGCTTCCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGA
ATTCCAAGGAATATCTTGTACCGAATTATCAAGTGAAGTACAGTCTCTTTGGTCCAAA
GCTGCTGACCTCTTTGAGTCTGAGGGGGCCAAAGTAATTGAAGTATCCCTTCCTCACACC
AGTTATTCAATTGTCTGTACCATGTATTGTGCACATCAGAAGTGGCATCGAATATGGCA
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TATGCTGCAACCAGACGAGAAGGGTTTAAATGATGGTGAGAGGAAGAATTCTCTCAGGA
AACTTTTTCTTATTAAGAAAACTATGAAAATTATTTTGTCAAAGCACAGAAAGTGAGA
CGCCTCATTGCTAATGACTTTGTAATGCTTTTAACTCTGGAGTAGATGTCTTGCTAAT
CCCACCCTTGAGTGAGGCAGTACCATACTTGAGAGTTCATCAAAGAGGACAACAGAAC
CGAAGTGCCAGGATGATATTTTACACAAGCTGTAAATATGGCAGGATTGCCAGCAGTG
AGTATCCCTGTTGCACTCTCAAACCAAGGGTTGCCAATAGGACTACAGTTTATTGGACGT
GCGTTTTGTGACCAGCAGCTTCTTACAGTAGCCAAATGGTTTGAAAAACAAGTACAGTTT
CCTGTTATTCAACTTCAAGAACTCATGGATGATTGTTTCAGCAGTCCTTGAAAATGAAAAG
TTAGCCTCTGTCTCTCTAAAACAGTAA
```

Clone variation with respect to NM_018292.4
1425 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018292 unedited

```
TAATACGACTTACTATAGGGCGGCCGAATTCGGCACGAGGCTCCTGTGGTGGCAGGCT
GGGCACGAGGACCATGCTGGGCCGGAGCCTCCGAGAAGTTTCTGCGGCACTGAAACAAGG
CCAAATTACACCAACAGAGCTCTGTCAAAAATGTCTCTCTTATCAAGAAGACCAAGTT
TCTAAATGCCTACATTACTGTGTCAGAAGAGGTGGCCTTAAACAAGCTGAAGAATCAGA
AAAGAGATATAAGAATGGACAGTCACTTGGGGATTTAGATGGAATTCCTATTGCAGTAAA
AGACAATTTAGCACTTCTGGCATTGAGACAACATGTGCATCAAATATGCTGAAAGGTTA
TATACCACCTTATAATGTACAGTAGTTCAGAAGTTGTTGGATCAGGGAGCTCTACTAAT
GGGAAAAACAAATTTAGATGAGTTTGCTATGGGATCTGGGAGCACAGATGGTGTATTTGG
ACCAAGTAAAAACCCCTGGAGTTATTCAAACAATATAGAGAAAAGAGGAAGCAGAATCC
CCACAGCGAGAATGAAGATTCAGACTGGCTGATAACTGGAGGAAGCTCAGGTGGGAGTGC
AGCTGCTGTATCGGCGTTCACATGCTACGCGGCTNTAGGATCAGATACAGGAGGATCGAC
CAGAAATCCTGCTGCCCACTGTGGGCTTGTGGTTTCAAACCAAGCTATGGCTTTAGTTT
CCCGTCATGGTCTCATTCCCCTGGTGAATTCGATGGATGTGCCANGAAATCTAACCAGAT
GTGTGGATGATGCAGCAATTGTGTTGGGTGCACTGGCCGGACCTGACCCAGGGACTCTA
CCCAGTACATGAACCTATTATAAACCATGCCTNCCAGTTGGCAGATGTGACCAACTT
GTTTAGGAT
```

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018292 unedited

```
CTTGGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTATTTATTTATTTATTTATTTTGAACACAGTCTTGCT
TTGTCACCCAGGCTGGAGTGCAGTGCAGGGGCATGATCTCGGCTCACTGGAACCTCCACC
TCCAGGGGTCAAGGGATTTTCTGCCTCAACCTCCTGAGTAGCTGGGACTACAATGCC
GCCACTAAGCCTGGCTAATTTTTGTATTTTAAAGAAAAACGGGGTTTACCATGTTGACC
AGGCTGTTCTAAATCTTTTGACCTCATGATCCGCTCGCCTTGCCTCCAAAGGGCTGGG
ATTACAGGGGGAGCCACTGGACCCAGCCTAAAAGTTATTTAATTTGAAAAATATGTTT
ACTGTTTAAAAAACAAGAGGCTAACTTTTTATTTTCAAGGACTGGTGAACAATCATCCA
TGAGTTCTTGAAGTTGAATAACAGGAACTGGACTTGTTTTCAAACCATTTGGCTACTG
TAAAAAACTGCTGGCCACAAAACCCCCGTCCAATAAAGTGTAGTCCTATTGGCAACCTT
GGTTTGAAACGCGCACAGGGATACTACTGCTGGCACTTCCGCCATATTTACAGCCCGGG
CAAAAATATCATCCGGGCCCTCCCGTTCTGGTGCCCTTTTTGATGAACTTCAACAC
GGCCCCGGTTCCTCCAGGGGGCGGACCATACGCATCTCCCTCAAAGCTAAAAGCTTTA
TCAACGCCCTTCCCAAGAGCGCCTCACTCTCGCCCCCCCCCAAAATTCATAATCC
CTTACAAAAAAATTTTCAAAAAATTTCCCTCCCACTTAACCCCTCGTGGGGACAC
CCGGCCCCCTTGACCCCTTTTTCCCCCGTACTTTCCCCCCCCCCTCCAC
```

Restriction Sites:

Notl-Notl

ACCN:

NM 018292

Insert Size:

2100 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 018292.2, NP 060762.2

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]