

Product datasheet for **RG232689**

BCS1L (NM_001257344) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCS1L (NM_001257344) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BCS1L
Synonyms: BCS; BCS1; BJS; FLNMS; GRACILE; h-BCS; h-BCS1; Hs.6719; MC3DN1; PTD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232689 representing NM_001257344
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACTTTCAGACTTTATTCTGGCTCTGAAGGACAATCCCTACTTTGGGGCTGGATTTGGGCTGGTGG
GTGTGGGCACAGCCCTGGCCCTGGCCCGGAAGGGTGTCCAACCTGGGCTGGTGGCATTCCGGCGCCATTA
CATGATCACACTGGAAGTCCCTGCTCGAGACAGGAGCTATGCCTGGTTGCTTAGCTGGCTACCCGCCAC
AGTACCCGTAAGTACTCAGCACCTCAGTGTGAGACTTCGTACCTTCAGCATGAGAGTGGCCGCATTTCCACTA
AGTTTGAATTTGTCGCCAGCCCTGGAAACCATTTTATCTGGTATCGGGGAAATGGATTCGGGTAGAACG
AAGTCGAGAGATGCAGATGATAGACTTGCAGACGGGACTCCTTGGGAATCTGTCACCTTACGGCCCTG
GGCACTGACCGAAAGGTTTTCTTCAACATCCTGGAGGAAGCTCGAGAGCTAGCCTTGCAGCAGGAGGAAG
GGAAGACCGTGATGTACACAGCTGTGGGCTCTGAATGGCGTCCCTTTGGCTATCCACGCCCGCGGAC
ACTGAATCTGTGGTTCTACAACAGGGTCTGGCTGACCGAATTGTGAGAGACGTCCAGGAATTCATCGAT
AACCCCAAGTGGTACACTGACAGAGGCATTCTTACAGACGTGGCTACCTGCTTTATGGGCCCTGGTT
GCGGAAAGAGCAGTTTTATCACAGCCCTGGCTGGGAACTGGAGCACAGCATCTGCCTGCTGAGCCTCAC
GGACTCCAGCCTCTCTGATGACCGACTCAACCACCTGCTGAGCGTGGCCCGCAGCAGAGCCTGGTACTC
CTGGAGGATGTGGATGCTGCTTTTCTCAGTCGAGACTTGGCTGTGAGAACCAGTAAAGTACCAAGGCC
TAGGTCGCCTCACCTTCACTGGACTGCTCAATGCCTTGGATGGTGTGGCTTCCACCGAGGCCGCATCGT
GTTTCATGACCACCAACCAGTTGACAGGCTGGACCCTGCCTGATACGCCCGGGCGAGTGGACCTGAAG
GAGTACGTGGGCTACTGCTCACACTGGCAGCTGACCCAGATGTTCCAGAGTTCTATCCAGGGCAGGCAC
CTTCCTTAGCTGAGAAGTTTGCAGAATGTCCTTCGAGCTACAAACCAGATCAGTCTGCCAGGTGCA
GGGCTACTTCATGCTGTATAAAATGACCCTGTAGGGCAATTCACAATGCTGAGTCTCTGAGGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232689 representing NM_001257344
 Red=Cloning site Green=Tags(s)

MPLSDFILALKDNPYFGAGFGLVGVGTALALARKGVQLGLVAFRRHYMITLEVPARDRSYAWLLSWLTRH
 STRTQHL SVETS YLQHESGRISTKFEFVSPGNHF IWYRGKWIRVERSREMOMIDLQTGTPWESVTFTAL
 GTDRKVVFNILEEARELALQEEGKTVMYTAVGSEWRPFYPRRRRPLNSVVLQQGLADRIVRDVQEFID
 NPKWYTD RGI PYRRGYLLYGPPGCGKSSFITALAGELEHSICLLSLT DSSL SDDR LNHLLSVAPQQLVL
 LEDVDA AFLSRDLAVENPVKYQGLGRLTF SGLLNALDGVASTEARIVFMTTNHVDRLDPALIRPGRVDLK
 EYVGYC SHWQLTQMFQRFYPGQAPSLAENFAEHLRATNQI SPAQVQGYFMLYKNDPVGAIHNAESLRR

TRTRPLE - GFP Tag - V

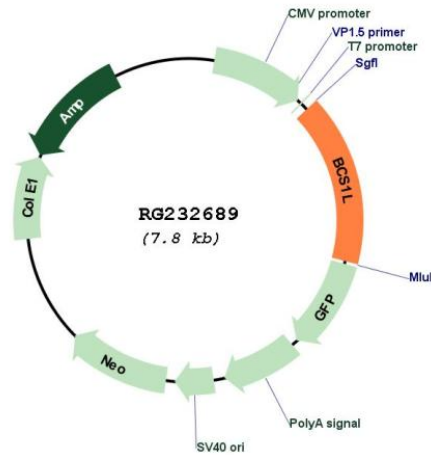
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001257344

| | |
|-------------------------------|---|
| ORF Size: | 1257 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: | <ol style="list-style-type: none">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_001257344.2 |
| RefSeq Size: | 1511 bp |
| RefSeq ORF: | 1260 bp |
| Locus ID: | 617 |
| UniProt ID: | Q9Y276 |
| Cytogenetics: | 2q35 |
| Protein Families: | Druggable Genome |
| Gene Summary: | This gene encodes a homolog of the <i>S. cerevisiae</i> bcs1 protein which is involved in the assembly of complex III of the mitochondrial respiratory chain. The encoded protein does not contain a mitochondrial targeting sequence but experimental studies confirm that it is imported into mitochondria. Mutations in this gene are associated with mitochondrial complex III deficiency and the GRACILE syndrome. Several alternatively spliced transcripts encoding two different isoforms have been described. [provided by RefSeq, Jan 2016] |