

## Product datasheet for **SC330604**

### BCS1L (NM\_001257342) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BCS1L (NM\_001257342) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BCS1L  
**Synonyms:** BCS; BCS1; BJS; FLNMS; GRACILE; h-BCS; h-BCS1; Hs.6719; MC3DN1; PTD  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330604 representing NM\_001257342.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

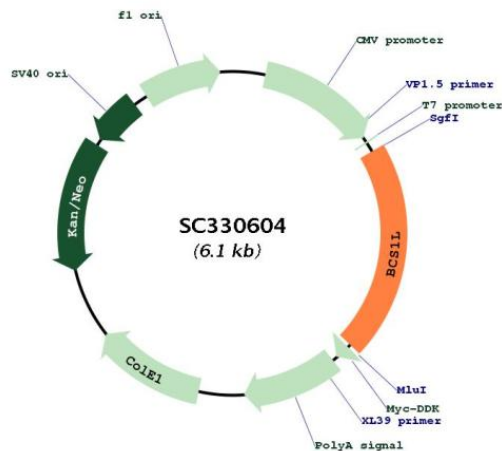
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ATGCCACTTTCAGACTTTATTCTGGCTCTGAAGGACAATCCCTACTTTGGGGCTGGATTTGGGCTGGTG
GGTGTGGGCACAGCCCTGGCCCTGGCCCGGAAGGGTGTCCAAGTGGGCCTGGTGGCATTCCGGCGCCAT
TACATGATCACACTGGAAGTCCCTGCTCGAGACAGGAGCTATGCCTGGTTGCTTAGCTGGCTCACCCGC
CACAGTACCCGACTCAGCACCTCAGTGTGAGACTTCGTACCTCAGCATGAGAGTGGCCGATTTCC
ACTAAGTTTGAATTTGTCCCGAGCCCTGGAAACCATTTTATCTGGTATCGGGGAAATGGATTGGGTA
GAACGAAGTCGAGAGATGCAGATGATAGACTTGCAGACGGGACTCCTTGGGAATCTGTACCTTCAGC
GCCCTGGGCACTGACCGAAAGGTTTTCTCAACATCCTGGAGGAAGCTCGAGAGCTAGCCTTGCAGCAG
GAGGAAGGGAAGACCGTATGTACACAGCTGTGGGCTCTGAATGGCGTCCCTTTGGCTATCCACGCCGC
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TTCATCGATAACCCCAAGTGGTACACTGACAGAGGCATTCCTTACAGACGTGGCTACCTGCTTTATGGG
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AGCCTGGTACTCCTGGAGGATGTGGATGCTGCTTTCTCAGTCGAGACTTGGCTGTGGAGAACCAGTA
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GAGGCCCGCATCGTGTTTCATGACCACCAACCAGTTGACAGGCTGGACCCCTGCCCTGATACGCCCGGG
CGAGTGGACCTGAAGGAGTACGTGGGCTACTGCTCACACTGGCAGCTGACCCAGATGTTCCAGAGGTTT
TATCCAGGGCAGGCACCTTCTTAGCTGAGAACTTGCAGAACATGCTCTTCGAGCTACAAACCAGATC
AGTCTGCCAGGTGCAGGGCTACTTCATGCTGTATAAAAATGACCCTGTAGGGGCAATTCACAATGCT
GAGTCTCTGAGGAGGTGA
  
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001257342

**Insert Size:** 1260 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\\_001257342.1](#)

**RefSeq Size:** 1584 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 617

UniProt ID: [Q9Y276](#)

Cytogenetics: 2q35

Protein Families: Druggable Genome

MW: 47.5 kDa

**Gene Summary:** This gene encodes a homolog of the *S. cerevisiae* 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]  
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, 4, 5, and 7 all encode the same isoform (a).