

## Product datasheet for **RG201195**

### BCS1L (NM\_004328) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BCS1L (NM_004328) 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:	>RG201195 representing NM_004328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACTTTCAGACTTTATTCTGGCTCTGAAGGACAATCCCTACTTTGGGGCTGGATTTGGGCTGGTGG  
GTGTGGGCACAGCCCTGGCCCTGGCCCGGAAGGGTGTCCAACCTGGGCTGGTGGCATTCCGGCGCCATTA  
CATGATCACACTGGAAGTCCCTGCTCGAGACAGGAGCTATGCCTGGTTGCTTAGCTGGCTACCCGCCAC  
AGTACCCGTA CTAGCACCTCAGTGTGAGACTTCGTACCTTCAGCATGAGAGTGGCCGATTTCCACTA  
AGTTTGAATTTGTCGCCAGCCCTGGAAACCATTTATCTGGTATCGGGGAAATGGATTCGGGTAGAACG  
AAGTCGAGAGATGCAGATGATAGACTTGCAGACGGGACTCCTTGGGAATCTGTCACCTTACGGCCCTG  
GGCACTGACCGAAAGTTTTCTTCAACATCCTGGAGGAAGCTCGAGAGCTAGCCTTGCAGCAGGAGGAAG  
GGAAGACCGTGATGTACACAGCTGTGGGCTCTGAATGGCGTCCCTTTGGCTATCCACGCCCGCGGACC  
ACTGAATCTGTGGTTCTACAACAGGGTCTGGCTGACCGAATTGTGAGAGACGTCCAGGAATTCATCGAT  
AACCCCAAGTGGTACACTGACAGAGGCATTCTTACAGACGTGGCTACCTGCTTTATGGGCCCTGGTT  
GCGGAAAGAGCAGTTTTATCACAGCCCTGGCTGGGAACTGGAGCACAGCATCTGCCTGCTGAGCCTCAC  
GGACTCCAGCCTCTCTGATGACCGACTCAACCACCTGCTGAGCGTGGCCCCGAGCAGAGCCTGGTACTC  
CTGGAGGATGTGGATGCTGCTTTTCTCAGTCGAGACTTGGCTGTGGAGAACCAGTAAGTACCAAGGCC  
TAGGTCGCCTCACCTTCACTGGACTGCTCAATGCCTTGGATGGTGTGGCTTCCACCGAGGCCGCATCGT  
GTTTCATGACCACCAACCAGTTGACAGGCTGGACCCTGCCTGATACGCCGGGGCGAGTGGACCTGAAG  
GAGTACGTGGGCTACTGCTCACACTGGCAGCTGACCCAGATGTTCCAGAGTTCTATCCAGGGCAGGCAC  
CTTCTTAGCTGAGAAGTTTGCAGAATGTCCTTCGAGCTACAAACCAGATCAGTCTGCCAGGTGCA  
GGGCTACTTCATGCTGTATAAAATGACCCTGTAGGGCAATTCACAATGCTGAGTCTCTGAGGAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201195 representing NM\_004328  
Red=Cloning site Green=Tags(s)

MPLSDFILALKDNPYFGAGFGLVGVGTALALARKGVQLGLVAFRRHYMITLEVPARDRSYAWLLSWLTRH  
 STRTQHL SVETS YLQHESGRISTKFEFVSPGNHFIWYRGKWIRVERSREMOMIDLQTGTPWESVTFTAL  
 GTDRKVF FNILEEARELALQEEGKTVMYTAVGSEWRPFYPRRRRPLNSVVLQQGLADRIVRDVQEFID  
 NPKWYTD RGI PYRRGYLLY GPPGCGKSSFITALAGELEHSICLLSLTDSSLSDRLNHL LSVAPQQSLVL  
 LEDVDA AFLSRDLAVENPVKYQGLGRLTF SGLLNALDGVASTEARIVFMTTNHVDRLDPALIRPGRVDLK  
 EYVGYS HWQLTQMFQRFYPGQAPSLAENFAEHLVRATNQI SPAQVQGYFMLYKNDPVGAIHNAESLRR

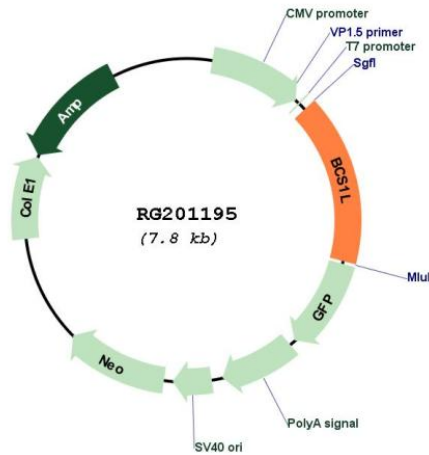
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_004328

<b>ORF Size:</b>	1257 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004328.5</a>
<b>RefSeq Size:</b>	1663 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	617
<b>UniProt ID:</b>	<a href="#">Q9Y276</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	AAA
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]