

## Product datasheet for **RG203211**

### SEPSECS (NM\_016955) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPSECS (NM_016955) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPSECS
Synonyms:	LP; PCH2D; SLA; SLA/LP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203211 representing NM_016955 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCACCTCATACGGCTGCTTCTGGAGAAGGTTCAATCATGGCATTGGACGATCCGGTGATATTTCTG  
CTGTGCAACAAAAGCTGCAGGCTCTAGCCTTTTGAACAAAATTACCAATTCCTTTGGTCTGGACATTAT  
AAAGCTGGCTGGTGTCCATACAGTAGCCAAGTCTTTGTAGTTCCATGGCAACTGGTATGAGTCTAACT  
CTGTGTTTCTTAACATTACGACACAAAAGACAAAAGGCAAAGTATATTATATGGCCACGAATAGACCAGA  
AGTCTGCTTTAAATCCATGATCACTGCAGGTTTTGAGCCTGTGGTGATAGAAAATGTTTTGGAAGGTGA  
CGAGCTGCGTACAGACCTGAAAGCAGTGGAGGCTAAAGTCCAGGAACCTGGGCCTGATTGCATTCTGTGT  
ATTCATCTACTACATCCTGTTTTGCTCCAAGGGTGCCTGATAGATTAGAAGAACTGGCTGTGATTTGTG  
CTAATTATGACATTCCACATATAGTTAATAATGCTTATGGAGTGCAGTCTTCAAAGTGTATGCATCTCAT  
TCAGCAGGGGGCTCGAGTTGGTGAATAGATGCTTTTGTTCAGAGCTTGGACAAAATTTTATGTTTCCA  
GTAGGTGGTGTATAATTGCTGGCTTAAATGATTCATTCATTGAGGAAATCAGCAAGATGTATCCAGGAA  
GAGCTTCAGCTTACCTTCTTTAGATGTCCTTATTACTTTATTGTCACTTGGATCAAATGGCTATAAGAA  
GCTACTAAAAGAAAGAAAGGAAATGTTTTCATATTTGTCCAACAAAATAAAGAAGTTGTCAGAAGCCTAC  
AATGAAAGACTGTTGCATACACCTCACAAATCCCATATCTTTAGCTATGACACTTAAAACACTAGATGAAC  
ACCGTGACAAAGCTGCACTCAGCTTGGCTCGATGCTTTTTACCAGACAGGTTTCTGGAGCCAGGGTTGT  
GCCTCTTGGGTCCATGCAAACTGTGAGTGGCTATACTTTCAGAGGCTTTATGTCACATACAAATAATTAC  
CCTTGTGCTTACCTCAATGCTGCATCAGCCATCGGAATGAAGATGCAGGATGTGGACCTGTTATAAAGA  
GACTTGACAGGTGTTAAAGGCAGTAAGAAAAGAACGAAGTAAAGAGAGTGATGACAATTATGACAAAAC  
TGAAGATGTGGATATTGAAGAAATGGCTTTAAACTAGATAATGTACTTCTTGACACATACCAGGATGCT  
TCTTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

**Protein Sequence:** >RG203211 representing NM\_016955  
Red=Cloning site Green=Tags(s)

MSTSYGCFWRRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLDIIKLAGVHTVANCFVVPMTGMSLT  
 LCFLTLRHKRPKAKYIIWPRIDQKSCFKSMITAGFEPVVIENVEGDELRTDLKAVEAKVQELGPDCLC  
 IHSTTSCFAPRVPDRLEELAVICANYDIPHIVNNAYGVQSSKCMHLIQQGARVGRIDAFVQSLDKNFMVP  
 VGGAIAGFNDSF IQEISKMYPRGRASAPSLDVLITLLSLGSNGYKLLKERKEMF SYLSNQIKKLESEAY  
 NERLLHTPHNPI SLAMTLKTLDEHRDKAVTQLGSMLFTRQVSGARVVPLGSMQTVSGYTFRGMSTNNY  
 PCAYLNAASAIGMKMQVDLFIKRLDRCLKAVRKERSKESDDNYDKTEDVDIEEMALKLDNVLDDTYQDA  
 SS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016955

**ORF Size:** 1269 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.

**RefSeq:** [NM\\_016955.2](#), [NP\\_058651.2](#)

**RefSeq Size:** 1269 bp

**RefSeq ORF:** 1506 bp

**Locus ID:** 51091

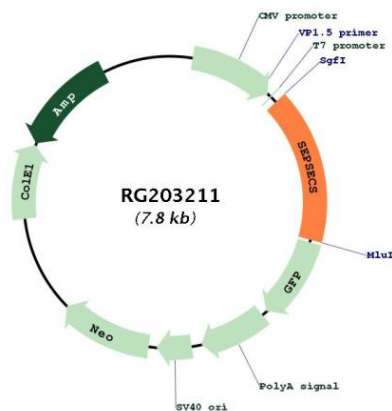
**UniProt ID:** [Q9HD40](#)

**Cytogenetics:** 4p15.2

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

**Gene Summary:** The amino acid selenocysteine is the only amino acid that does not have its own tRNA synthetase. Instead, this amino acid is synthesized on its cognate tRNA in a three step process. The protein encoded by this gene catalyzes the third step in the process, the conversion of O-phosphoseryl-tRNA(Sec) to selenocysteinyl-tRNA(Sec).[provided by RefSeq, Mar 2011]

### Product images:



Circular map for RG203211