

Product datasheet for **RC203211**

SEPSECS (NM_016955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPSECS (NM_016955) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPSECS
Synonyms:	LP; PCH2D; SLA; SLA/LP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC203211 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCACCTCATACGGCTGCTTCTGGAGAAGGTTCAATCATGGCATTGGACGATCCGGTGATATTTCTG
CTGTGCAACCAAAAGCTGCAGGCTCTAGCCTTTTGAACAAAATTACCAATTCCTTTGGTCCTGGACATTAT
AAAGCTGGCTGGTGTCCATACAGTAGCCAACTGCTTTGTAGTTCCTATGGCAACTGGTATGAGTCTAACT
CTGTGTTTCTTAACATTACGACACAAAAGACAAAGGCAAAGTATATTATATGGCCACGAATAGACCAGA
AGTCTGCTTTAAATCCATGATCACTGCAGGTTTTGAGCCTGTGGTGATAGAAAAATGTTTTGGAAGGTGA
CGAGCTGCGTACAGACCTGAAAGCAGTGGAGGCTAAAGTCCAGGAACCTGGGCCTGATTGCATTCTGTGT
ATTCATTCTACTACATCTGTTTTGCTCCAAGGGTGCCTGATAGATTAGAAGAACTGGCTGTGATTTGTG
CTAATTATGACATTCCACATATAGTTAATAATGCTTATGGAGTGCAGTCTTCAAAGTGTATGCATCTCAT
TCAGCAGGGGCTCGAGTTGGTAGAATAGATGCTTTTGTTCAGAGCTTGGACAAAATTTTATGGTTCCA
GTAGGTGGTGCTATAATTGCTGGCTTTAATGATTCATTCAATCAGGAAATCAGCAAGATGTATCCAGGAA
GAGCTTCAGCTTACCTTCTTTAGATGTCTTATTACTTTATTGTCACTTGGATCAAATGGCTATAAGAA
GCTACTAAAAGAAAGAAAGGAAATGTTTTCATATTTGTCCAACCAATAAAGAAGTTGTCAGAAGCCTAC
AATGAAAGACTGTTGCATACACCTCACAAATCCCATATCTTTAGCTATGACACTTAAACACTAGATGAAC
ACCGTGACAAAGCTGTCACTCAGCTTGGCTCGATGCTTTTTACCAGACAGGTTTCTGGAGCCAGGGTTGT
GCCTCTGGGTCCATGCAAACTGTGAGTGGCTATACTTTCAGAGGCTTTATGTCACATACAAATAATTAC
CCTTGTGCTTACCTCAATGCTGCATCAGCCATCGGAATGAAGATGCAGGATGTGGACCTGTTATAAAGA
GACTTGACAGGTGTTTAAAGGCAGTAAGAAAAGAACGAAGTAAAGAGAGTGATGACAATTATGACAAAAC
TGAAGATGTGGATATTGAAGAAATGGCTTAAAACCTAGATAATGTACTTCTTGACACATACCAGGATGCT
TCTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203211 protein sequence
Red=Cloning site Green=Tags(s)

MSTSYGCFWRRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLDIIKLAGVHTVANCFVVPMTGMSLT
LCFLTLRHKRPKAKYIIWPRIDQKSCFKSMITAGFEPVVIENVLEGEDELRTDLKAVEAKVQELGPDICILC
IHSTTSCFAPRVPDRLEELAVICANYDIPHIVNNA YGVQSSKCMHLIQQGARVGRIDAFVQSLDKNFMVP
VGGAI IAGFNDSFIQEISKMYPGRASASPSLDVLTLLSLGSNGYKLLKERKEMF SYLSNQIKKLESEAY
NERLLHTPHNPISLAMTLKTLDEHRDKAVTQLGSMLFTRQVSGARVVPLGSMQTVSGYTFRGMSTHNNY
PCAYLNAASAIGMKMQDVDFIKRLDRCLKAVRKERSKESDDNYDKTEDVDIEEMALKLDNVLLDITYQDA
SS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6565_c05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_016955

ORF Size: 1266 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: 5645 bp

RefSeq ORF: 1506 bp

Locus ID: 51091

UniProt ID: [Q9HD40](#)

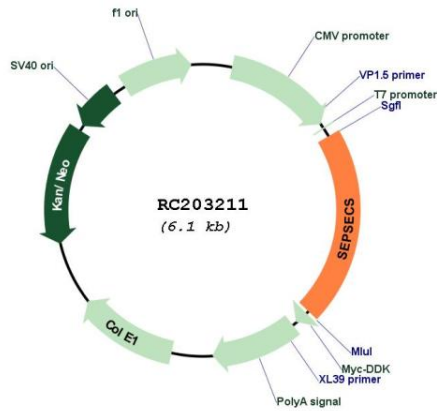
Cytogenetics: 4p15.2

Protein Pathways: Aminoacyl-tRNA biosynthesis

MW: 46.9 kDa

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 RC203211