

Product datasheet for **SC100656**

SEPSECS (NM_153825) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPSECS (NM_153825) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPSECS
Synonyms:	LP; MGC161491; Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase; SLA; SLA/LP; soluble liver antigen/liver pancreas antigen
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC100656 sequence for NM_153825 edited (data generated by NextGen Sequencing)

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ATGAACCGCGAGAGCTTCGCGCGGGAGAGCGGCTGNNTCGCCGGCTTACGTGCGGCAG
GGCTGTGAGGCCCGCCGCTCGCATGAGCACCTCATACGGCTGCTTCTGGAGAAGGGCAAG
TGTCAGAGAATGGCTGGGATGAAAGTACACTTGAACCTTTTTACATGAACTTGAACATC
ATGGACAGCAACAATTTCTAGGCAATTGGTGTGGGAGAAAGGAAGGAGAGATGGCA
TCCGCACTGGTTGCTCGTCGTCATTACAGGTTTCATTCATGGCATTGGACGATCCGGTGAT
ATTTCTGCTGTGCAACCAAAAGCTGCAGGCTCTAGCCTTTTTGAACAAAATTACCAATTCT
TTGGTCTGACATTATAAAGCTGGCTGGTGTCCATACAGTAGCCAACCTGCTTTGTAGTT
CCTATGGCAACTGGTATGAGTCTAACTCTGTGTTTCTAACATTACGACACAAAAGACCA
AAGGCAAAGTATATTATATGGCCACGAATAGACCAGAAGTCTGCTTTAAATCCATGATC
ACTGCAGGTTTTGAGCCTGTGGTATAGAAAATGTTTTGGAAGGTGACGAGCTGCGTACA
GACCTGAAAGCAGTGGAGGCTAAAGTCCAGGAACCTGGGCCTGATTGCATTCTGTGATT
CATTCTACTACATCCTGTTTTGCTCCAAGGGTGCCTGATAGATTAGAAGAACTGGCTGTG
ATTTGTGTAATTATGACATTCCACATATAGTTAATAATGCTTATGGAGTGCAGTCTTCA
AAGTGTATGCATCTCATTACAGCAGGGGGCTCGAGTTGGTAGAATAGATGCTTTTGTTCAG
AGCTTGGACAAAAATTTATGGTTCCAGTAGGTGGTGTATAATTGCTGGCTTAAATGAT
TCATTCATTACAGGAAATCAGCAAGATGTATCCAGGAAGAGCTTACGCTTACCTTCTTTA
GATGTCCTTATTACTTTATTGTCACCTGGATCAAATGGCTATAAGAAGCTACTAAAAGAA
AGAAAGGAAATGTTTTCATATTTGTCCAACCAATAAAGAAGTTGTCAGAAGCCTACAAT
GAAAGACTGTTGCATACACCTCACAAATCCCATATCTTTAGCTATGACACTTAAACACTA
GATGAACACCGTGACAAAGCTGTCACTCAGCTTGGCTCGATGCTTTTTACCAGACAGGTT
TCTGGAGCCAGGTTGTGCCTCTTGGGTCATGCAAACTGTGAGTGGCTATACTTTTCAGA
GGCTTTATGTACATACAAATAATTACCCTTGTGCTTACCTCAATGCTGCATCAGCCATC
GGAATGAAGATGCAGGATGTGGACCTGTTCAAAAGAGACTTGACAGGTGTTAAAGGCA
GTAAGAAAAGAACGAAGTAAAGAGAGTGTGACAATTATGACAAAAGTGAAGATGTGGAT
ATTGAAGAAATGGCTTTAAACTAGATAATGTACTTCTTGACACATACCAGGATGCTTCT
TCATGA
    
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Clone variation with respect to NM_153825.2
 38 t=>n;39 g=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153825 unedited

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GCAAAATTTGTATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGGTCCAGGCGG
CGAGTTGCATTCTGGTTCCGTCGTGTCTGGCGTGTGGAGCTAGTGCTCCCGCTTATTC
GCCACTGTCGCCACCGCTGTGATGAACCGGAGAGCTTCGCGCGGGAGAGCGGCTGGTG
TCGCCGGCTTACGTGCGGCAGGCTGTGAGGCCCGCCGCTCGCATGAGCACCTCATACGG
CTGCTTCTGGAGAAGGGCAAGTGTCCAGAGAATGGCTGGGATGAAAGTACACTTGAACCTC
TTTTTACATGAACTTGAATCATGGACAGCAACAATTTCTTAGGCAATTGTGGTGTGGGA
GAAAGGGAAGGGAGAGTGGCATCCGCACTGGTTGCTCGTCGTCATTACAGGTTTATTTCAT
GGCATTGGACGATCCGGTGATATTTCTGCTGTGCAACCAAAAGCTGCAGGCTCTAGCCTT
TTGAACAAAATTACCAATTTTGGTCTGGACATTATAAAGCTGGCTGGTGTCCATACA
GTAGCCAACTGCTTTGTAGTTTCTATGGCAACTGGTATGAGTCTAACTCTGTGTTTCTTA
ACATTACGACACAAAAGACCAAAAGGCAAGTATATTATATGGCCACGAATAGACCAGAAG
TCCTGCTTTANATCCATGATCACTGCAGGTTTTGAGCCTGTGGTATAGAAAATGTTNTG
GGAGGTGACGAGCTGCGTACAGACCTGAAAGCAGTGGAGGCTTAAAGTCAGGAACCTGGG
CCTGNATGCATTCTGTGATTCTACTACATNCTGGTTTGTCCAGGGGTGCTGATA
GATANAAGAACTGGCTGGGATTGTGCTAATATGACTTCCCATATAGTATATGCTTAGGGA
GGCAGCTTCAAGGATGCTCTCATCANCNGGGCCTCAGTGTAC
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_153825 unedited CTTGGACGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGACTCTAGAGTTG CAACTCTTCAGCTTTATTGGTTCAGCAATTTAGTCCCAAATTCATGAAAAATTTACAC TTTTAAATCCAGCATTTATCCCTTGAAATGAGTTACTACACCTATGAAATTTTTTTAA TGTTTGAACCCCAAAGATAAAAATAAATACATTTTAAATAACCTTCATGATATTCATAGT TAAATACTTCATCTCAAAATAGTCATTGACTTCCAAGGTGGTCAAGCCAGTGGCCATAGG CGTCTACCTTACACATGTCTGACCTCATGTTTACAAACAGTCTGGGACAATGTACAACGT CACCAAAATACCAGAAAATCCCTTTCTCATACATAGGTTACAATCCAAATCAATAAGAA AAATGCAGCCCAGAAGGCAACACAGCATTCTCTACCATAGTGTTTTTAAAGTATGTTCA ATGGGCTGTTAACAAATATTTCACTTTAAAAAATGAGTTTCTCTTTGGATAAGGATATA TTTAAACTGGGTTATTTAGTGAAGGAATCTTAGAGCCTTCAATATGCCAACAGGCAGGT TTGCAAAGGCAGCTCCCAAAATATTTGTCTGTAACATTTTCTCCCATGAGCATCTTT TAGGAACATGATCCAGAGCTGCGTTTGAGAAACATAGCTTTGGCATGGTGGCATGTT AGAAGCTTCAGTAAATCTTCNAGCTATGACATCTCTATTTCTTAAATAGTCTTAAGTAAG TCTATTTCTTAATTAACAACAAAATTATTGTAAGCCAGTAAGTCTGGAATTTAGACTCA GAAAATGAGCACTGGGCAAGTAGAGGGATTACACCTGTTATATACTTGTGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_153825
Insert Size:	3840 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:	<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:	<u>NM_153825.1</u> , <u>NP_722547.1</u>
RefSeq Size:	5648 bp
RefSeq ORF:	1326 bp
Locus ID:	51091
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]

Transcript Variant: This variant (1) represents the most predominant transcript, and encodes the longest isoform (1).