

Product datasheet for **MG208114**

Sepsecs (NM_172490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sepsecs (NM_172490) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sepsecs
Synonyms:	AA986712; D5Ertd135e; SecS; SLA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208114 representing NM_172490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCCGGAGAGCTTCGCGGCGGGCAGCGCGGGTGTCTCCGGCTTACGTGAGGCAGGGCTGCGAGG
 CTGCGCGCGCCCACGAGCACCTCATCCGGCTGCTTCTAGAGCAGGCAAGTGCCAGAGGATGGCTGGGA
 TGAAAGTACCCTCGAACTCTTTCTGCATGAGCTTGCAGTCATGGATAGCAACAATTTCTGGGTAATTGT
 GGTGTGGGAGAAAGGGAAGGGAGAGTGGCCTCTGCTTTGGTTGCTCGACGACATTACAGGTTTATCCACG
 GAATTGGACGATCCGGTGATATTTCTGCTGTGCAACCAAAAGCTGCAGGCTCTAGCCTCTTGAACAAAAT
 TACTAATCTTTGGTGCTTAATGTCATAAAGCTTGTGCTGTTTCTGACACTACGACACAAAAGCAAAAGGCCAAGT
 CCTATGGCAACTGGGATGAGTCTAACCTTGTGTTTCTGACACTACGACACAAAAGCAAAAGGCCAAGT
 ATATCATATGGCCACGGATAGACCAGAAGTCTGCTTTAAGTCCATGGTCACTGCAGGTTTTGAACCCGT
 GGTAATAGAAAACGTATTGGAAGGTGATGAGCTGCGCACAGACCTGAAAGCCGTGGAGGCTAAAATCCAG
 GAGCTCGGGCCGAGCACATCCTGTGCCTTCATTTACCACAGCCTGCTTTGCTCCAAGGGTGCCCGATA
 GATTAGAAGAAGTGGCTGTGATTTGTGCTAATTATGACATTCCACATGTAGTCAACAACGCTTATGGATT
 ACAGTCTTCAAAGTGCATGCATCTCATTAGCAGGGGGCTCGGGTTGGTAGAATTGATGCTTTGCTTCAG
 AGCTTGGACAAAAATTTATGGTCCAGTAGGTGGTGTATAATTGCTGGCTTTAATGAGCCCTTCAATC
 AGGACATCAGCAAGATGTATCCAGGAAGAGCCTCAGCCTCGCCGCTCCTTAGAGCTCTCATCACCTTGCT
 GTCAGTGGGCTGCAGTGGCTACAGGAAGCTGTTGAAGGAGAGAAAGGAAATGTTTGTCTATTTATCCACC
 CAACTAAAGAAGTTGGCAGAGGCCACAATGAAAGACTACTACAGACACCTCACAAACCTATATCCTTAC
 CTATGACACTTAAGACGATAGATGGACACCATGACAAAGCTGTCACTCAGCTTGGCTCAATGCTTTTTCGA
 CAGACAAGTGTCTGGAGCCAGGGCTGTGCCTCTTGGGAACGTGCAAACTGTGAGTGGCCATACTTTTCGA
 GGCTTCATGTCCCATGCAGATAATTACCCTGTGCTTACCTCAATGCGGCAGCAGCCATCGGGATGAAGA
 TGCAGGATGTGGACCTGTTATAAAGAGACTTGACAAGTGTAAACATAGTAAGGAAAGAACAGACTAG
 AGCAAGTGTGTCTGGAGCTGACCGCAACAAAGCTGAAGATGCGGACATTGAGGAAATGGCTTTGAAA
 CTGGATGACGTGCTTGGGGATGTGGGCCAGGGCCCTGCTCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208114 representing NM_172490
 Red=Cloning site Green=Tags(s)

MNPESFAAGERRVSPAYVRQGCEARRAHEHLIRLLLEQKCPEDGWDESTLELFLHELAVMDSNNFLGNC
 GVGEREGRVASALVARRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLNVIKLAGVHVSASFV
 PMATGMSLTLCFLTLRHKRPKAKYIIWPRIDQKSCFKSMVTAGFEPVVIENVLEGDELRTDLKAVEAKIQ
 ELGPEHILCLHSTTACFAPRVPDRLEELAVICANYDIPHVNNAYGLQSSKCMHLIQQGARVGRIDAFVQ
 SLDKNFMVPVGGAIAGFNEPFIQDISKMYPRASASPSLDVLTLLSLGCSGYRKLKERKEMFVYLST
 QLKLAEAHNERLLQTPHNPISLAMTLKIDGHHDKAVTQLGSMLFTRQVSGARAVPLGNVQTVSGHTFR
 GFMSHADNYPAYLNAAAAIGMKMQDVDLFIKRLDKCLNIVRKEQTRASVVSADRNKAEDADIEEMALK
 LDDVLDVGVGQGPAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_172490

ORF Size: 1512 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_172490.4](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1515 bp

Locus ID: 211006

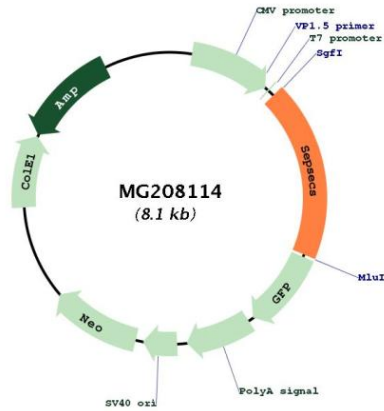
UniProt ID: [Q6P6M7](#)

Cytogenetics: 5 28.44 cM

Gene Summary:

Converts O-phosphoseryl-tRNA(Sec) to selenocysteinyl-tRNA(Sec) required for selenoprotein biosynthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208114