

Product datasheet for **MR208114**

Sepsecs (NM_172490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sepsecs (NM_172490) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sepsecs
Synonyms:	AA986712; D5Ertd135e; SecS; SLA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208114 representing NM_172490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCCGGAGAGCTTCGCGGGCGGCGAGCGCGGGTGTCTCCGGCTTACGTGAGCGAGGGCTGCGAGG
 CTCGGCGCGCCACGAGCACCTCATCCGGCTGCTTCTAGAGCAGGGCAAGTGCCAGAGGATGGCTGGGA
 TGAAAGTACCCTCGAACTCTTTCTGCATGAGCTTGCAGTCATGGATAGCAACAATTTCTGGGTAATTGT
 GGTGTGGGAGAAAGGGAAGGGAGAGTGGCCTCTGCTTTGGTTGCTCGACGACATTACAGGTTTATCCACG
 GAATTGGACGATCCGGTGATATTTCTGTGTGCAACCAAAAGCTGCAGGCTCTAGCCTCTTGAACAAAAT
 TACTAATCTTTGGTGTAAATGTCATAAAGCTTGTGGTGTTCATTAGTGGCCAGTTGCTTTGTAGTT
 CCTATGGCAACTGGGATGAGTCTAACCTTGTGTTTCTGACACTACGACACAAAAGACCAAAAGGCCAAGT
 ATATCATATGGCCACGGATAGACCAGAAGTCTGCTTTAAGTCCATGGTCACTGCAGGTTTTGAACCCGT
 GGTAATAGAAAACGTATTGGAAGGTGATGAGCTGCGCACAGACCTGAAAGCCGTGGAGGCTAAAATCCAG
 GAGCTCGGGCCGAGCACATCCTGTGCCTTCATTTACCACAGCCTGCTTTGCTCCAAGGGTGCCCGATA
 GATTAGAAGAAGTGGCTGTGATTTGTGCTAATTATGACATTCCACATGTAGTCAACAACGCTTATGGATT
 ACAGTCTTCAAAGTGCATGCATCTCATTAGCAGGGGGCTCGGGTTGGTAGAATTGATGCTTTGCTTCAG
 AGCTTGGACAAAAATTTATGGTCCAGTAGGTGGTGTATAATTGCTGGCTTTAATGAGCCCTTCATTC
 AGGACATCAGCAAGATGTATCCAGGAAGAGCCTCAGCCTCGCCGCTCTTAGAGCTCTCATCACCTTGCT
 GTCAGTGGGCTGCAGTGGCTACAGGAAGCTGTTGAAGGAGAGAAAGGAAATGTTGTCTATTTATCCACC
 CAACTAAAGAAGTTGGCAGAGGCCACAATGAAAGACTACTACAGACACCTCACAAACCTATATCCTTAG
 CTATGACACTTAAGACGATAGATGGACACCATGACAAAGCTGTCACTCAGCTTGGCTCAATGCTTTTTAC
 CAGACAAGTGTCTGGAGCCAGGGCTGTGCCTCTTGGGAACGTGCAAACTGTGAGTGGCCATACTTTTCGA
 GGCTTCATGTCCCATGCAGATAATTACCCTGTGCTTACCTCAATGCGGCAGCAGCCATCGGGATGAAGA
 TGCAGGATGTGGACCTGTTATAAAGAGACTTGACAAGTCTTAAACATAGTAAGGAAAGAACAGACTAG
 AGCAAGTGTGTCTGGAGCTGACCGCAACAAAGCTGAAGATGCGGACATTGAGGAAATGGCTTTGAAA
 CTGGATGACGTGCTTGGGGATGTGGGCCAGGGCCCTGCTCTA

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208114 representing NM_172490
 Red=Cloning site Green=Tags(s)

MNPESFAAGERRVSPAYVRQCEARRAHEHLIRLLLEQKCPEDGWDESTLELFLHELAVMDSNNFLGNC
 GVGEREGRVASALVARRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLNVIKLAGVHSVASCFFV
 PMATGMSLTLCFLTLRHKRPKAKYIIWPRIDQKSCFKSMVTAGFEPVVIENVLEGEDELRTDLKAVEAKIQ
 ELGPEHILCLHSTTACFAPRVPDRLEELAVICANYDIPHVNNAYGLQSSKCMHLIQQGARVGRIDAFVQ
 SLDKNFMVPVGGAIAGFNEPFIQDISKMYPRASASPSLDVLTLLSLGCSGYRKLKERKEMFVYLST
 QLKKLAEAHNERLLQTPHNPISLAMTLKIDGHHDKAVTQLGSMFLTRQVSGARAVPLGNVQTVSGHTFR
 GFMSHADNYPAYLNAAAAIGMKMQDVLFIKRLDKCLNIVRKEQTRASVVSADRNKAEDADIEEMALK
 LDDVLDVGGQGPAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9081_b06.zip

Restriction Sites:

Sgfl-Mlul

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

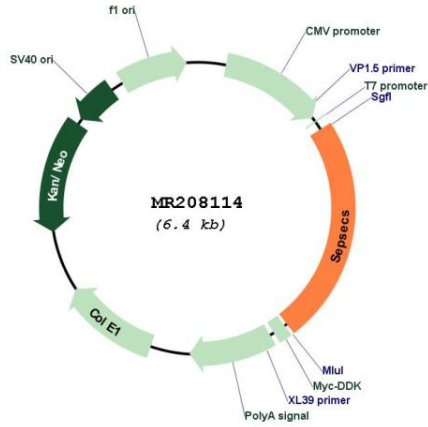
UniProt ID: [Q6P6M7](#)

Cytogenetics: 5 28.44 cM

MW: 55.3 kDa

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

Product images:



Circular map for MR208114