# L-Seryl-Trna (Sec) Selenium Transferase (selA) Geobacter Metallireducens Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | L-seryl-tRNA (Sec) selenium transferase (selA), Recombinant Protein |
| **Full Product Name** | Recombinant Geobacter metallireducens L-seryl-tRNA (Sec) selenium transferase (selA) |
| **Product Gene Name** | selA recombinant protein |
| **Product Synonym Gene Name** | selA |
| **Sequence** | MTLFARIPKV DKILEWDGTK VLLGIHPRPT VLNAVRSVLD SLRTAARSGF LKEEELLEGA VASRIEREVA RSTAFSLRRV VNGTGVVIHT NLGRSPLSKR VKPLLDEIAF GYSNLEFDLE KGERGSRYSH VERLLCDLTG AEAALVVNNN AAAVLLALSA LAAGKEVVVS RGELVEIGGS FRIPDVMGQG GAILREVGTT NRTHPRDYHQ AVSEQTALLL KVHSSNFAVV GFTAEVSATE LVAIGKEHSV PVMADIGSGC LLDLSPFGIR GEPTVQEFVK AGVDVITFSG DKLLGGPQAG IIVGRREFIA PLTQHPLLRA LRIDKLTLAA LEGTLRLYRD ERLALAEIPT LRMLTASAAE LATRARSFAR RIRRASPPDI RLTLTSGISQ VGGGAYPLLE LPTTLMAMEA DGISPQEMEI RLRGMEVPVT GRIHRGRFLL DVRTLQDDDI PFIAAALSSL AD |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 49,874 Da |
| **Sequence Positions** | 1-462, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q39ZL4 |
| **Species** | Geobacter metallireducens (strain GS-15 / 53774 / DSM 7210) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for selA recombinant protein** | MBS1473660 is a recombinant protein targeting selA. Also known as Recombinant Geobacter metallireducens L-seryl-tRNA (Sec) selenium transferase (selA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of selA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for selA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 490649190 |
| **NCBI Accession #** | WP_004514185.1 |
| **UniProt Primary Accession #** | Q39ZL4 |

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| **GenBank Nucleotide #** | WP_004514185.1 |
| **NCBI Official Full Name** | L-selenocysteinyl-tRNA(Sec) synthase |
| **UniProt Protein Name** | L-seryl-tRNA(Sec) selenium transferase |
| **UniProt Synonym Protein Names** | Selenocysteine synthase |
| **UniProt Gene Name** | selA |
| **UniProt Synonym Gene Names** | Sec synthase |
| **UniProt Comments for selA** | Converts seryl-tRNA(Sec) to selenocysteinyl-tRNA(Sec) required for selenoprotein biosynthesis. |
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