

Recombinant Full Length Francisella Tularensis Subsp. Tularensis Lipid A Export Atp-Binding/Permease Protein Msba(Msba) Protein, His-Tagged

Cat. No. RFL22178FF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Francisella tularensis subsp. tularensis Lipid A export ATP-binding/permease protein MsbA(msbA) Protein (Q5NIG3) (1-609aa), fused to N-terminal His tag, was expressed in E. coli.
Species	Francisella tularensis
Source	E.coli
ProteinLength	Full Length (1-609)
Form	Lyophilized powder
AA Sequence	MANMIDKIDLKSQGSSNLSGEMTNHQKVGTLTKRLLQVKHLWHFLLLAAGSIFFS AD ASMIYLINPILNYGFGPGGGITKQSATILMLMGVMVGLLALRSVGSFVSQYFIGS LGQK VVYKFRKDIYKRLMDLPASFFDKHSTGQIISRLLYNVDQVIEATSTAITVVQDG TFVIG LIVVMFVSSWQLSLFLIVVGPFLGLFISIINKKFRNLSRNTQSSMGNVTHTAEE TIRNYK EIRIFGAQQKQKQKFFKNLDYTYSQQIRTIALDALTSPIVIQIIASLVAFSLFTI AIFGT NEGDGSSWLTAGSFASFFAAAAAILKPIKNLTKVNVVIQKAVAATEDIFYILDY PAEKET GSKELAKVDGNVTIKDLSFAFGEHKVLSGVSVDIKAGQTVAFVGKSGSGK TTLTSIISRF YTQHEGEILLDGVDTRELTLENLRSHLSIVSQNVHLFDDTVYNNIAFGL SREVSEEEVID ALKRANAYEFVQELSDGINTNIGNNGSKLGGQRQRISARALLKNA PVLIFDEATSALD NESERVVQQALES�TKSCTTIVIAHRLSTVENADKIVVMDGGRV

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	ESGKHQELLEQGGLY TRLYQSGLQ
Purity	Greater than 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Storage Buffer	Tris/PBS-based buffer, 6% Trehalose, pH 8.0
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
GENE INFORMATION	
Gene Name	msbA
Synonyms	msbA; valA; FTT_0109; ATP-dependent lipid A-core flippase; Lipid A export ATP-binding/permease protein MsbA
UniProt ID	Q5NIG3