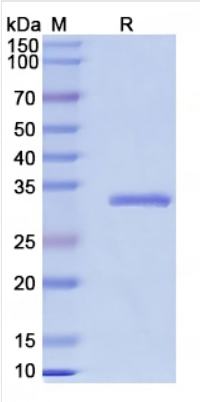
TOMM22 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TOMM22, Recombinant Protein
Full Product Name	Recombinant Human TOMM22 Protein, N-GST & C-His
Product Gene Name	TOMM22 recombinant protein
Product Synonym Names	1C9-2; TOM22; Translocase of outer membrane 22 kDa subunit homolog; hTom22; Mitochondrial import receptor subunit TOM22 homolog; TOMM22
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	142
Sequence Positions	Glu42-Ala84
OMIM	607046
3D Structure	ModBase 3D Structure for Q9NS69
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for TOMM22 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TOMM22 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for TOMM22 recombinant protein	MBS1578094 is a recombinant protein targeting TOMM22. Also known as Recombinant Human TOMM22 Protein, N-GST & C-His. Host: E coli.
Product References and Citations for TOMM22 recombinant protein	In mammalian skeletal muscle, phosphorylation of TOMM22 by protein kinase CSNK2/CK2 controls mitophagy. PMID: 29165030 A mitophagy-related gene signature associated with prognosis and immune microenvironment in colorectal cancer. PMID: 36333388 The prognostic value and clinical significance of mitophagy-related genes in hepatocellular carcinoma. PMID: 35991574 Mitochondrial accumulation of amyloid ? (A?) peptides requires TOMM22 as a main A? receptor in yeast. PMID: 29925587 Knockdown of TMEM160 leads to an increase in reactive oxygen species generation and the induction of the mitochondrial unfolded protein response. PMID: 36217717
Other Notes	Small volumes of TOMM22 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.



SDS-Page of TOMM22 recombinant protein
SDS PAGE for Recombinant Human TOMM22 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TOMM22. It may not necessarily be applicable to this product.

NCBI GI #	24212074
NCBI GeneID	56993
NCBI Accession #	Q9NS69.3
UniProt Primary Accession #	Q9NS69
UniProt Related Accession #	Q9NS69
NCBI Official Full Name	Mitochondrial import receptor subunit TOM22 homolog
NCBI Official Synonym Full Names	translocase of outer mitochondrial membrane 22 homolog (yeast)
NCBI Official Symbol	TOMM22
NCBI Official Synonym Symbols	1C9-2; TOM22; MST065; MSTP065
UniProt Protein Name	Mitochondrial import receptor subunit TOM22 homolog
UniProt Synonym Protein Names	1C9-2; Translocase of outer membrane 22 kDa subunit homolog
UniProt Gene Name	TOMM22
UniProt Synonym Gene Names	TOM22; hTom22
UniProt Entry Name	TOM22_HUMAN
NCBI Protein Information	mitochondrial import receptor subunit TOM22 homolog; mitochondrial import receptor Tom22; translocase of outer membrane 22 kDa subunit homolog
NCBI Summary for TOMM22	The protein encoded by this gene is an integral membrane protein of the mitochondrial outer membrane. The encoded protein interacts with TOMM20 and TOMM40, and forms a complex with several other proteins to import cytosolic preproteins into the mitochondrion. [provided by RefSeq, Jul 2008]

UniProt Comments for TOMM22	TOMM22: Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore. Belongs to the Tom22 family. Protein type: Mitochondrial; Membrane protein, integral Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: mitochondrion; membrane; mitochondrial outer membrane translocase complex; mitochondrial inner membrane; integral to membrane Molecular Function: protein binding; protein transmembrane transporter activity Biological Process: cellular protein metabolic process; protein targeting to mitochondrion; protein import into mitochondrial outer membrane
Research Articles on TOMM22	**1.** Blockade of mitochondrial protein import triggers the recruitment of PARK2, by PINK1, to the TOMM machinery.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/tomm22/1578094