

Product Information

MemDX™ Membrane Protein Human TAP2 (Transporter 2, ATP binding cassette subfamily B member) Full Length

Cat. No.: **MPC1626K**

This product is for research use only and is not intended for diagnostic use.

This product is a 75.6 kDa Human TAP2 membrane protein expressed in *Komagataella pastoris*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

TAP2

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

75.6 kDa

TMD

9

Sequence

MRLPDLRPWTSLLLVDALLWLLQGPLGTLLPQGLPGLWLEGTLRLGGLW
GLLKLRLGLLGFVGTLLPLCLATPLTVSLRALVAGASRAPPARVASAPWS
WLLVGYGAAGLSWSLWAVLSPPGAQEKEQDQVNNKVLMMWRLLKLSRPDLP
LLVAFFFLVLAVLGETLIPHYSGRVIDILGGDFDPHAFASAIFFMCLFS
FGSSLSAGCRGGCFTYTMSRINLRIREQLFSSLLRQDLGFFQETKTGELN
SRLSSDTTLMNWLPLNANVLLRSLVKVVGGLYGFMLSISPRLTLLSLLHM
PFTIAAEKVYNTRHQEVLREIQDAVARAGQVREAVGGLQTVRSFGAEEH
EVCRYKEALEQCRQLYWRRDLERALYLLVRRVLHLGVQMLMLSCGLQQMQ
DGELTQGSLLSFMIIQESVGSYVQTLVYIYGDMLSNVGAAEKVFSYMDRQ
PNLPSPGTLAPTTLQGVVKFQDVSFAYPNRPDRPVLKGLTFTLRPGEVTA
LVGPNGSGKSTVAALLQNLQPTGGQVLLDEKPISQYEHCYLHSQVSVSG
QEPVLFSGSVRNNIAYGLQSCEDDKVMAAAQAAHADDFIQEMEHGIYTDV
GEKGSQLAAGQKQRLAIARALVRDPRVLILDEATSALDVQCEQALQDWNS
RGDRTVLVIAHRLQTVQRAHQILVLQEGKLQKLAQL

Product Description

Expression Systems

Komagataella pastoris

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

TAP2

Full Name

Transporter 2, ATP binding cassette subfamily B member

Introduction

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. This gene is located 7 kb telomeric to gene family member ABCB2. The protein encoded by this gene is involved in antigen presentation. This protein forms a heterodimer with ABCB2 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Alternative splicing of this gene produces products which differ in peptide selectivity and level of restoration of surface expression of MHC class I molecules.

Alternative Names

TAP2; APT2; PSF2; ABC18; ABCB3; PSF-2; RING11; D6S217E; antigen peptide transporter 2; ABC transporter, MHC 2; ATP-binding cassette, sub-family B (MDR/TAP), member 3; peptide supply factor 2; peptide transporter PSF2; peptide transporter involved in antigen processing 2; really interesting new gene 11 protein; transporter 2, ABC (ATP binding cassette); transporter 2, ATP-binding cassette, sub-family B (MDR/TAP); Transporter 2, ATP binding cassette subfamily B member

Gene ID

[6891](#)

UniProt ID

[Q03519](#)