

Product datasheet for TP510494

Mfn2 (NM_133201) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitofusin 2 (Mfn2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210494 protein sequence Red=Cloning site Green=Tags(s)

MSLLFSRCNSIVTVKKDKRHEMAEVNASPLKHFVTAKKKINGIFEQLGAYIQESASFLEDTHRNTELDPVT
TEEQVLDVKGYSKVRGISEVLARRHMKVAFFGRTSNGKSTVINAMLWDKVLLSGIGHTTNCFLRVGGTD
GHEAFLLTEGSEEKSVKTVNQLAHLHQDEQLHAGSMVSMWPNKCPLLKDDLVLMDSPGIDVTELD
SWIDKFCLDADVFLVANSESTLMQTEKQFFHKVSRPNIIFILNRRWDASASEPEYMEEVRRQHMER
CTSFLVDELGVVDRAQAGDRIFVSAKEVLSARVQKAQGMPEGGALAEGFQVRMFEFQNFERQFEECIS
QSAVKTKFEQHTVRAKQIAEAVRLIMDSLHIAAQEQRVYCLEMREERQDRLRFIDKQLELLAQDYKLRIK
QITEEVERQVSTAMAEIIRLSVLVDEYQMDFHPSVVLKVKNELHRHIEEGLGRNLSDRCSTAIASSL
QTMQQDMIDGLKPLPVSMRNQIDMLVPRQCFSLSYDLNCDKLCADFQEDIEFHSLGWTMLVNRFLGPK
NSRRALLGYSDQVQRPLPLTPANPSMPPLQSSLTQEELMVSMVTGLASLTSRTSMGILVGGVWKA
VGRWRLIALSFGLYGLLYVYERLTWTTKAKERAFKRQFVEYASEKLQLIISYTGSNCSHQVQQLSEGTFAHLC
QQVDITRDNLEQEIAAMNKKVEALDSLQSRAKLLRNKAGWLDSELNMFTHQYLQPSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

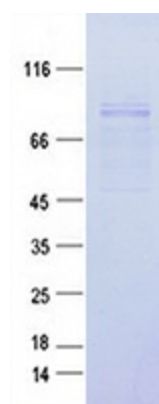
Tag:	C-MYC/DDK
Predicted MW:	86.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_573464
Locus ID:	170731
UniProt ID:	Q80U63
RefSeq Size:	4476
Cytogenetics:	4 E1
RefSeq ORF:	2274
Synonyms:	D630023P19Rik; Fzo
Summary:	Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed:12527753, PubMed:23921378, PubMed:23620051). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events. Overexpression induces the formation of mitochondrial networks. Membrane clustering requires GTPase activity and may involve a major rearrangement of the coiled coil domains (By similarity). Plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Plays an important role in the regulation of vascular smooth muscle cell proliferation (By similarity). Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PRKN recruitment to dysfunctional mitochondria (PubMed:23620051). Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress (PubMed:23921556). Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions (PubMed:23921556).[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Mfn2 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.