

Product datasheet for PH302218

Mitofusin 2 (MFN2) (NM_014874) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MFN2 MS Standard C13 and N15-labeled recombinant protein (NP_055689)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202218
Predicted MW:	86.4 kDa
Protein Sequence:	>RC202218 protein sequence Red=Cloning site Green=Tags(s)

MSLLFSRCNSIVTVKKNKRHMAEVNASPLKHFVTAKKKINGIFEQLGAYIQESATFLEDTYRNAELDPVT
TEEQVLDVKGYLKVRGISEVLARRHMKVAFVGRSTNGKSTVINAMLWDKVLPSGIGHTTNCFLRVEGTD
GHEAFLLTEGSEEKRSKTVNQLAHALHQDKQLHAGSLVSMWPNKCPLLKDDLVLMDSPGIDVTTELD
SWIDKFCLDADVFVLANSESTLMQTEKHFFHKVSRPNIIFILNNRWDASASEPEYMEEVRRQHMERS
CTSFLVDELGVVDRSQAGDRIFVSAKEVLNARIQKAQGMPEGGGALAEQFQVRMFEFQNFERRFEECIS
QSAVKTKFEQHTVRAKQIAEAVRLIMDSLHMAAREQQVYCEEMREERQDRLKFDKQLELLAQDYKLRIK
QITEEVERQVSTAMAEERIRRLSVLVDDYQMDVHPSPVVLKVVYKNELEHRRHIEEGLGRNMSDRCSAITNSL
QTMQQDMIDGLKPLLPVSVRSQIDMLVPRQCFSLNYDLNCDKLCADFQEDIEFHFSLGTMLVNRFLGPK
NSRRALMGYNDQVQRPIPLTPANPSMPPLPQGSQTQEEFMVSMVTGLASLTSRTSMGILVVGGVVWKA
VGRWRLIALSFGLYGLLYVYERLTWTTKAKERAFKRQFVEHASEKLLQLVISYTGSNCSHQVQQLSGTFAHLC
QQVDVTRENLEQEIAMNKKIEVLDLSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_055689



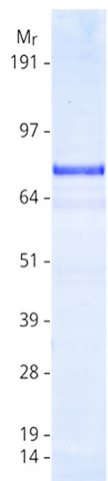
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RefSeq Size:	4685
RefSeq ORF:	2271
Synonyms:	CMT2A; CMT2A2; CMT2A2A; CMT2A2B; CPRP1; HMSN6A; HSG; MARF
Locus ID:	9927
UniProt ID:	O95140
Cytogenetics:	1p36.22

Summary: This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified MFN2 protein (Cat# [TP302218]). The protein was produced from HEK293T cells transfected with MFN2 cDNA clone (Cat# [RC202218]) using MegaTran 2.0 (Cat# [TT210002]).