

Product datasheet for TP525663

Opa1 (NM_133752) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse OPA1, mitochondrial dynamin like GTPase (Opa1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR225663 protein sequence
Red=Cloning site **Green**=Tags(s)

MWRAGRAAVACEVCQSLVKHSSGIQRNVPLQKLHLVSRSIYRSHHPALKLQRPQLRTPFQQFSSLTHLSL
HKLKLSPIKYGYPRRNFWPARLAARLLKLRVIILGSAVGGGYAKKTFDEWKDMIPDLSDYKWIVPDFI
WEIDEYIDLEKIRKALPSSDLASLAPDLDKITESLSLLKDFFTAGSPGETAFRATDHGSESDKHVRKVS
DKEKIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDDKGIHHRKLLKSLIDMYSEVLDVLSYDA
SYNTQDHLPRVVVGDQSAGKTSVLEMIAQARIFPRGSGEMMTRSPVKVTLSEGP HHVALFKDSSREFDL
TKEEDLAALRHEIELMRKNVKEGCTVSPETISLNVKGPGLQRMVLDLPGVINTVTSGMAPDTKETIFS
ISKAYMQNPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRRTIFVLTKVDLAEKNVASPSRIQQIIEGKL
FPMKALGYFAVVTGKGNSSIESIAIREYEEFFQNSKLLKTSMLKAHQVTRNLSLAVSDCFWKMVRESV
EQQADSFKATRFNLETWKNNNYPRLRELDRELFEKAKNEILDEVISLSQVTPKHWEIILQQSLWERVST
HVIENIYLPAAQTMNSGTFNTTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKL
KEAVKEESIKRHKWINDFAEDSLRVIQHNALEDRSISDKQQWDAIYFMEEALQGRKLDTENAIENMIGPD
WKKRWMYWKNRQTQEQCVHNETKNELEKMLKVNDHPAYLASDEITTVRKNLESRGVEVDP SLIKD TWHQV
YRRHFLKTALNHCNLCRRGFYYYQRHFIDSELECNVWVLFWRIRMLAITANTLRQQLTNTTEVRRLEKNV
KEVLEDAEDGEEKVKLLTGKRVQLAEDLKKVREIQEKLDAFIEALHQEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 111.3 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



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| 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. |
| 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_598513 |
| Locus ID: | 74143 |
| UniProt ID: | P58281 |
| RefSeq Size: | 5948 |
| Cytogenetics: | 16 20.65 cM |
| RefSeq ORF: | 2883 |
| Synonyms: | 1200011N24Rik; AI225888; AI847218; lilr3; mKIAA0567 |
| Summary: | Dynamin-related GTPase that is essential for normal mitochondrial morphology by regulating the equilibrium between mitochondrial fusion and mitochondrial fission (PubMed:11847212, PubMed:24616225, PubMed:26785494, PubMed:28746876). Coexpression of isoform 1 with shorter alternative products is required for optimal activity in promoting mitochondrial fusion (By similarity). Binds lipid membranes enriched in negatively charged phospholipids, such as cardiolipin, and promotes membrane tubulation. The intrinsic GTPase activity is low, and is strongly increased by interaction with lipid membranes (By similarity). Plays a role in remodeling cristae and the release of cytochrome c during apoptosis (PubMed:16839884, PubMed:16839885). Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space (PubMed:16839884, PubMed:16839885). Plays a role in mitochondrial genome maintenance (By similarity).[UniProtKB/Swiss-Prot Function] |