

## Product datasheet for **TP510440**

### Mtmr12 (NM\_172958) Mouse Recombinant Protein

#### Product data:

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description:                          | Purified recombinant protein of Mouse myotubularin related protein 12 (Mtmr12), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Species:                              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Expression Host:                      | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Expression cDNA Clone or AA Sequence: | >MR210440 representing NM_172958<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                       | <p>MLGKGGVGGGGGKAPKPSFVSYSVRPEEIHTEKEVTEKEVTLHLLPGEQLLCEASTVLKYVQEDSCQRG<br/>VYGRVCTDFKISFLGDEDSALDNGGEAQFKNKIIGVNDVPLHCVDQIYGVFDEKKKPLFGQLKKYPEKL<br/>VIHCKDLRVLHFCLRYTKEEVKRIVSGIIHHTQSPKLLKRLFLFSYAAVHGTATDSRNCTVMFDTPKD<br/>WCWELERTKGSVKYRTVSVNEGVRVSDRLPAYFVVPPTLPEDDVRRFQGHGPIWCWSCHNGSALLKMS<br/>A<br/>LPKEQDDGALQVQKSFLDGIYKTIHRPPYEMVKTEDLSSNFLSLQEIQSAYCKFKQLFLIDNSSEFWDTD<br/>IKWFSLESSSWLDIIRCLKKAIEITECLEAQNVNVLLEENASDLCLSSLVQVMMDAHCRTRTGFGQ<br/>SLIQKEWVMGGHSFLDRCNHLHQSDKEEVPIFLFLDCVWQLVHQYPPAFETETYLTVLSDSLYIPIFS<br/>TFFNSPHQKDTNMGRENDAQSKPLTLLTVWDWSVQFEPKAQTLRLNPLYVEKPKLDRGQQKGSRFK<br/>HQ<br/>RQLSLPLTQSKSSPKRGFFREETDHLIKNLLGKRISKLINSSDDLQDSSREFYDSWHSKPTDYHGLLLPH<br/>IEGPEIKVWAQRYLRWIPEAQILGGGRVATMGKLEMMEEVQSLQEKEIARHHRQEAVHAEAPGLLRNSV<br/>RLSSLFPFALLQRHSAKPVLPSTSGWKALGGEDDLAKREDEFVDLGDV</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-MYC/DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Predicted MW:                         | 86 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



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| <b>Storage:</b>      | Store at -80°C after receiving vials.                                                                                                                                                                                                                                                                                                         |
| <b>Stability:</b>    | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                 |
| <b>RefSeq:</b>       | <u><a href="#">NP_766546</a></u>                                                                                                                                                                                                                                                                                                              |
| <b>Locus ID:</b>     | 268783                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID:</b>   | <u><a href="#">Q80TA6</a></u>                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>  | 4518                                                                                                                                                                                                                                                                                                                                          |
| <b>Cytogenetics:</b> | 15 A1                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq ORF:</b>   | 2241                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms:</b>     | 3Pap; 4932703C11; C730015A02Rik; mKIAA1682; Pip3ap                                                                                                                                                                                                                                                                                            |
| <b>Summary:</b>      | Acts as an adapter for the myotubularin-related phosphatases (PubMed:23818870). Regulates phosphatase MTM1 protein stability and possibly its intracellular location (PubMed:23818870). By stabilizing MTM1 protein levels, required for skeletal muscle maintenance but not for myogenesis (PubMed:23818870).[UniProtKB/Swiss-Prot Function] |