

## Product datasheet for TP323643L

### Dystrophia myotonica protein kinase (DMPK) (NM\_001081562) Human Recombinant Protein

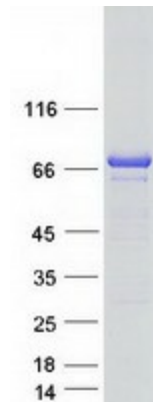
#### Product data:

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| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Recombinant protein of human dystrophia myotonica-protein kinase (DMPK), transcript variant 4, 1 mg   |
| <b>Species:</b>                              | Human   |
| <b>Expression Host:</b>                      | HEK293T   |
| <b>Expression cDNA Clone or AA Sequence:</b> | >RC223643 representing NM_001081562<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|  | MSAEVRLRRLQQLVLDPGFLGLEPLDLLLVHQLGASELAQDKYVADFLQWAEPIVWRLKEVRLQRDD<br>FEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMKLRGEVSCFREERDVLVNGDRRWITQLHFAFQD<br>ENLYLVMEYYVGGDLLTLLSKFGERIPAEMARFYLAEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIR<br>LADFGSCLKLRADGTVRSLVAVGTPDYLSPEILQAVGGPGTGSYGPCECDWWALGVFAYEMFYGQTPFYA<br>DSTAETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLCPEPTRLGRGGAGDFRTHPFFFGLDWDGLRDS<br>VPPFTPDFEGATDTCNFDLVEDGLTAMETLSDIREGAPLGVHLPFVGYSYSCMALRDSEVPGPTPMELEA<br>EQLLEPHVQAPSLEPSVSPQDETAEVAVPAAPAAEAEVTLRELQEALIEEVLTRQSLSREMEAIRTD<br>NQNFASQLREAEARNRDLEAHRQLQERMELQAEGATAVTGVPSPRATDPPSHMAPRPWLWASARWWGQ<br>APCTAATCCSLPGSLGLAYRRRFPCCSPLFCLVPPPWAALGWWPTPANSPOSGAAQEPALPEP<br><br><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b> |
| <b>Tag:</b>                                  | C-Myc/DDK   |
| <b>Predicted MW:</b>                         | 69.4 kDa  |
| <b>Concentration:</b>                        | >0.05 µg/µL as determined by microplate BCA method  |
| <b>Purity:</b>                               | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Buffer:</b>                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  |
| <b>Preparation:</b>                          | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  |
| <b>Note:</b>                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  |
| <b>Storage:</b>                              | Store at -80°C.   |



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| <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>           | <a href="#">NP_001075031</a>  |
| <b>Locus ID:</b>         | 1760  |
| <b>UniProt ID:</b>       | <a href="#">Q09013</a> , <a href="#">E5KR05</a>   |
| <b>RefSeq Size:</b>      | 2873  |
| <b>Cytogenetics:</b>     | 19q13.32  |
| <b>RefSeq ORF:</b>       | 1875  |
| <b>Synonyms:</b>         | DM; DM1; DM1PK; DMK; MDPK; MT-PK  |
| <b>Summary:</b>          | The protein encoded by this gene is a serine-threonine kinase that is closely related to other kinases that interact with members of the Rho family of small GTPases. Substrates for this enzyme include myogenin, the beta-subunit of the L-type calcium channels, and phospholemman. The 3' untranslated region of this gene contains 5-38 copies of a CTG trinucleotide repeat. Expansion of this unstable motif to 50-5,000 copies causes myotonic dystrophy type I, which increases in severity with increasing repeat element copy number. Repeat expansion is associated with condensation of local chromatin structure that disrupts the expression of genes in this region. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2016] |
| <b>Protein Families:</b> | Druggable Genome, Protein Kinase  |

**Product images:**

Coomassie blue staining of purified DMPK protein (Cat# [TP323643]). The protein was produced from HEK293T cells transfected with DMPK cDNA clone (Cat# [RC223643]) using MegaTran 2.0 (Cat# [TT210002]).