

Recombinant Full Length Human DMPK Protein, GST-tagged

Cat. No. DMPK-4028HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DMPK full-length ORF (AAH62553, 1 a.a. - 629 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	629 amino acids
Description	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]
Molecular Mass	94.93 kDa
AA Sequence	MSAEVRLRRLQQVLDPGFLGLEPLDLLLGVHQELGASELAQDKYVADFLQWAEPI VVRLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEV

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SCFREERDVLVNGDRRWITQLHFAFQDENYLYLVMEYYVGGDLLTLLSKFGERIPAE
MARFYLAIEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLADGTVRS
LVAVGTPDYLSPAILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADST
AETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFF
GLDWDGLRDSVPPFTPDEFEGATDTCNFDLVEDGLTAMVSGGGETLSDIREGAPLGV
HLPFVGYSYSCMALRDSEVPGPTPMELEAEQLLEPHVQAPSLEPSVSPQDETAEVA
VPAAVPAAEAEAEVTLRELQEALEEEVLTRQSLSREMEAIRTDNQNFAQLREAEAR
NRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQCPLV
GPGPMHRRHLLLPARVPRPGLSEALSLLFAVVLSSRAAALGCIGLVAHAGQLTAVWR
RPGAARAP

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DMPK dystrophia myotonica-protein kinase [Homo sapiens]

Official Symbol

DMPK

Synonyms

DMPK; dystrophia myotonica-protein kinase; myotonin-protein kinase; DM; DM protein kinase; DM1; DM1PK; DMK; dystrophia myotonica 1; MDPK; MT PK; myotonic dystrophy associated protein kinase; myotonin protein kinase A;

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thymopoietin homolog; DM-kinase; DM1 protein kinase; myotonic dystrophy protein kinase; MT-PK;

Gene ID 1760

mRNA Refseq NM_001081563

Protein Refseq NP_001075032

MIM 605377

UniProt ID Q09013

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