

Recombinant Human DMPK Protein, GST-tagged

Cat. No. DMPK-2708H **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	Wheat Germ
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	MSAEVRLRRLQQLVLDPGFLGLEPLDLLLGVHQELGASELAQDKYVADFLQWAEPI VVRLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMMLKRGEV SCFREERDVLVNGDRRWITQLHFAFQDENYLYLVMEYYVGGDLLTLLSKFGERIPAE

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MARFYLAIEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLRADGTVRS
 LVAVGTPDYLSPEILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADST
 AETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFF
 GLDWDGLRDSVPPFTPDEFEGATDTCNFDLVEDGLTAMVSGGGETLSDIREGAPLGV
 HLPFVGYSYSCMALRDSEVPGPTPMELEAEQLLEPHVQAPSLEPSVSPQDETAEVA
 VPAAVPAAEAEAEVTLRELQEALEEEVLTRQSLSREMEAIRTDNQNFASQLREAEAR
 NRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQCPLV
 GPGPMHRRHLLLPARVPRPGLSEALSLLLFAVVLSSRAAALGCIGLVAHAGQLTAVWR
 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; thymopoietin homolog; DM-kinase; DM1 protein kinase; myotonic dystrophy protein

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kinase; MT-PK;

Gene ID 1760

mRNA Refseq NM_001081563

Protein Refseq NP_001075032

MIM 605377

UniProt ID Q09013

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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