

## Product datasheet for SC209980

### Dystrophia myotonica protein kinase (DMPK) (NM\_004409) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** Dystrophia myotonica protein kinase (DMPK) (NM\_004409) Human 3' UTR Clone  
**Symbol:** Dystrophia myotonica protein kinase  
**Synonyms:** DM; DM1; DM1PK; DMK; MDPK; MT-PK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pMirTarget (PS100062)  
**ACCN:** NM\_004409  
**Insert Size:** 801 bp  
**Insert Sequence:** >SC209980 3'UTR clone of NM\_004409  
 The sequence shown below is from the reference sequence of NM\_004409. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CGCCGCCAGGAGCCGCCCGCGCTCCCTGAACCCTAGAACTGTCTTCGACTCCGGGGCCCCGTTGGAAG
ACTGAGTGCCCGGGCACGGCACAGAAGCCGCGCCACCCTGCCAGTTCACAACCGCTCCGAGCGTG
GGTCTCCGCCAGCTCCAGTCTGTGATCCGGGCCGCCCTAGCGGCCGGGAGGGAGGGGCCGGGT
CCGCGGCCGGCGAACGGGCTCGAAGGGTCTTGTAGCCGGGAATGCTGCTGCTGCTGCTGCTGCT
GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGGGGGATCACAGACCATTCTTTCTTTTCGCC
AGGCTGAGGCCCTGACGTGGATGGGCAAATGCAGGCCTGGGAAGGCAGCAAGCCGGGCCGTCCGTGTT
CCATCCTCCACGCACCCCCACCTATCGTTGGTTCGAAAGTGCAAAGCTTTCTTGTGCATGACGCCCTG
CTCTGGGGAGCGTCTGGCGGATCTCTGCCTGCTTACTCGGAAATTTGCTTTTGCCAAACCCGCTTTT
TCGGGGATCCCGCGCCCCCTCCTCACTTGCCTGCTCTCGGAGCCCCAGCCGGCTCCGCCCGCTTCGG
CGGTTTGGATATTTATTGACCTCGTCTCCGACTCGTGACAGGCTACAGGACCCCCAACACCCCAAT
CCACGTTTTGGATGCACTGAGACCCCGACATTCCTCGGTATTTATTGTCTGTCCCCACCTAGGACCC
ACCCCGACCCCTCGCGAATAAAAGGCCCTCCATCTGCCAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<u><a href="#">NM_004409.5</a></u>
<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>Locus ID:</b>	1760
<b>MW:</b>	27.9