

Product datasheet for **MR206071**

Gdpd5 (BC026428) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdpd5 (BC026428) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdpd5
Synonyms:	MGC37148, MGC31332
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206071 representing BC026428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGAAAAAGACCTGGGCCCAAACCTGCCCTCATCGGCCACCGAGGGGCTCCCATGCTGGCTCCAG
AACACACAGTGATGTCCTTCCGGAAGGCGCTGGAGCAGAGGCTGTATGGGCTGCAAGCTGACATCACCAT
CAGCCTGGATGGTGTGCCCTTTCTCATGCATGACACTACCCTGAGGCGGACCAATGTGGAGCACCTG
TTCCCGGAGCTTGCCCGCAGGCTGCTGCCATGCTCAACTGGACTGTCCTGCAGAGGCTCAATGCCGGCC
AGTGGTTCCTCAAGACCGACCCCTTCTGGACGGCCAGCTCCCTGTACCCTCCGACCACAGGGAGGTTCA
GAACCACTCCATCTGCAGCCTGGCAGAGCTGCTGGAGCTGGCCAAGGGCAATGCCTCGCTGCTGCTCAAC
CTTCGGGACCCGCCCCGTGATCACCCCTACCGTGGCAGCTTCTCAACGTCACTGAGGCCGTGCTGC
GTTCAGGCTTCCCCCAGCACCAGGTGATGTGGCTATTTAACAGGCAGAGGCCCTTTGGTACGGAAGATGGC
TCCTGGCTTCCAGCAAACATCTGGGTCCAAAGAAGCCATCGCTAACTTACGGAAGGTACATCCAGAAG
CTGAACCTCCGTACACTCAGGTGTCCCACAGGAGCTCAGGGACTATGCATCGTGAACCTGAGTGTGA
ACCTGTACACTGTCAATGCACCGTGGCTCTTCTCCCTGCTGTGGTGTGCTGGGGTCCCCTCCGTCACTTC
CGAACTCCCATAACCTTTCTCGGGTGCCTTCTCCACTCTGGATCATGCCCCAGACGAGTACTGCCTC
ATGTGGGTCACTGCCGACCTGATCTCCTCAGCCTCATCATCGGCATCTTCGTGCTCCAGAAGTGGCGCC
TGGGTGGTATACGGAGTTAAACCCAGAGCAGATCATGCTGAGCGCCGCGTACGCCGAGCAGCCGGGA
CGTCAGCATCATGAAAGAAAACTCATCTTCTCAGAGATCAGTGATGGTGTGGAAGTCTCCGATGGGCTC
TCCGTATGTTACAGACAGCAGTTACGACACCTATGCTAATGCCAACAGCACAGCCACCCCTGTGGGCCCTC
GAAATGCTGGCAGCCGTGCCAAGACCGTCACAGAGCAGAGTGGGCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206071 representing BC026428
 Red=Cloning site Green=Tags(s)

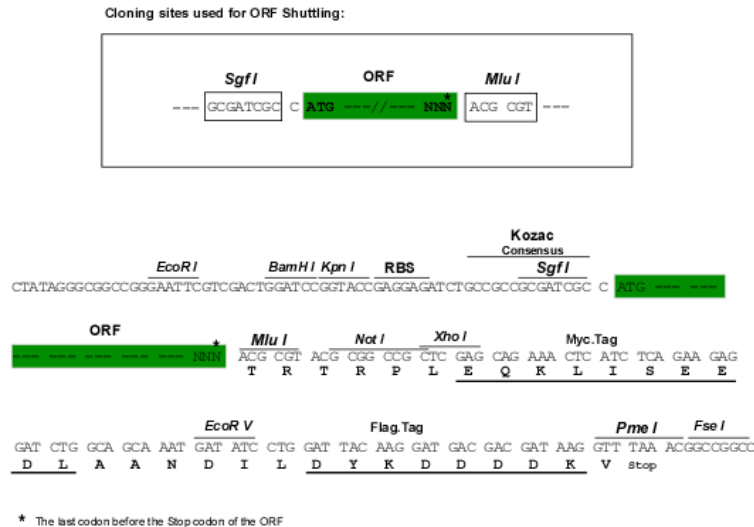
MEKKDLGPKPALIGHRGAPMLAPEHTVMSFRKALEQRLYGLQADITISLDGVPFLMHDTTLRRTTNVEHL
 FPELARRPAAMLNWTVLQRLNAGQWFLKTDPFWTASSLSPSDHREVQNQSI CSLAELLELAGNALLLN
 LRDPPRDHPYRGSFLNVTLEAVLRSGFPQHQMWL FNRQRPLVRKMAPGFQQTSGSKEAIANLRKGHIQK
 LNLRYTQVSHQELRDYASWNL SVNLYTVNAPWLF SLLWCAGVPSVTS DNSHTLSRVPSPLWIMPPDEYCL
 MWVTADLISFSLIIGIFVLQKWRLGGIRSYNPEQIMLSAAVRRTSRDV SIMKEKLIFSEISDGVEVSDGL
 SVCSDSSYDTYANANSTATPVGPRNAGSRAKTVTEQSGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC026428

ORF Size: 1167 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC026428.1](#)

RefSeq Size: 2539 bp

RefSeq ORF: 1169 bp

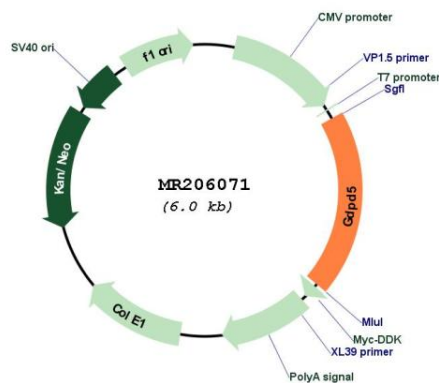
Locus ID: 233552

Cytogenetics: 7 E1

MW: 93.1 kDa

Gene Summary: Glycerophosphodiester phosphodiesterase that promotes neurite formation and drives spinal motor neuron differentiation (PubMed:17275818, PubMed:18667693). Mediates the cleavage of glycosylphosphatidylinositol (GPI) anchor of target proteins: removes the GPI-anchor of RECK, leading to release RECK from the plasma membrane (By similarity). May contribute to the osmotic regulation of cellular glycerophosphocholine (PubMed:18667693). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206071