

Product datasheet for **MR209362**

Gdpd5 (NM_201352) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Gdpd5
Synonyms:	BC024955; Gde2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209362 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGAGACACCAGCCCTGCAATACTACGAGCCCCAACTGTGCCTCTCATGCCTCACAGGCATCTATG
 GCTGCCGCTGGAAGCGCTACCAACGCTCGCACGATGACACCACGCCGTGGGAGCGCCTGTGGTTCTGTCT
 CCTGGTCTGCACCTTCAGCCTCACACTCACTGGCTCTACTTTTGGTGGGGTGTCCACAACGACTACGAT
 GAGTTCAACTGGTACCTCTACAACCGCATGGGCTACTGGAGCGACTGGTCCGTGCCCATCCTGGTGACCT
 CGGCTGCTGCTTTACATACATCGCAGGCCTCCTGGTCTGGCACTATGTCACATCGCTGTGGGGCAGCA
 GTTGAACCTGCACCTGGATACACAAGATGGGGCTGGTGGTCATCCTGGCCTCCACGGTGGTGGCCATGTCT
 GCAGTGGCCAGCTCTGGGAGGATGAGTGGGAGGTGCTGCTGATTTCCCTGCAGGGCACGGACCAATTCC
 TGCATATAGGGGCCCTGGTGGCCATCACTGCACCTCTCTGGATCGTCGCTGGACAGTTTGCCCGTGCAGA
 GCGGTCTCTCTCAGCTACCAATTCTTTGTACCTTCTCGCCGTGGTCTTACCTTCTACCTGATCCCT
 CTCACCATCTCCTCTCCCTGCATCATGGAGAAAAAGACCTGGGCCCAACCTGCCCTCATCGGCCACC
 GAGGGGCTCCCATGCTGGCTCCAGAACACACAGTGATGTCTTCCGGAAGGCGCTGGAGCAGAGGCTGTA
 TGGGCTGCAAGCTGACATCACCATCAGCCTGGATGGTGTGCCCTTTCTCATGCATGACACTACCTGAGG
 CGGACCACCAATGTGGAGCACCTGTTCCCGGAGCTTGCCCGCAGGCCTGCTGCCATGCTCAACTGGACTG
 TCTTGACAGAGGCTCAATGCCGGCCAGTGGTTCCTCAAGACCGACCCCTTCTGGACGGCCAGCTCCCTGTC
 ACCCTCCGACCACAGGGAGGTTTCAAGACAGTCCATCTGCAGCCTGGCAGAGCTGCTGGAGCTGGCCAAG
 GGCAATGCCTCGTGTCTCAACCTTCCGGACCCGCCCGTGTACCCCTACCGTGGCAGCTTCTCTCA
 ACGTCACACTGGAGGCGCTGCTGCTTCAAGCTTCCCCAGCACCAGGTATGTGGCTATTTAACAGGCA
 GAGGCCCTTTGGTACGGAAGATGGCTCCTGGCTTCCAGCAAACATCTGGATCCAAAGAAGCCATCGCTAAC
 TTACGGAAGGTCACATCCAGAAGCTGAACCTCCGCTACACTCAGGTGTCCACCGAGAGCTCAGGGACT
 ATGCATCGTGAACCTGAGTGTGAACCTGTACACTGTCAATGCACCGTGGCTCTTCTCCCTGCTGTGGTG
 TGCTGGGGTCCCCCTCCGTCACCTCCGACAACTCCCATACCTTTCTCGGGTGCCTTCTCCACTCTGGATC
 ATGCCCCCAGACGAGTACTGCCTCATGTGGGTCACTGCCGACCTGATCTCCTTCAGCCTCATCATCGGCA
 TCTTCGTGCTCCAGAAGTGGCGCCTGGGTGGTATACGGAGTTACAACCCAGAGCAGATCATGCTGAGCGC
 CGCTGTACGCCGACGACCGGGACGTGAGCATCATGAAAGAAAACTCATCTTCTCAGAGATCAGTGAT
 GGTGTGGAAGTCTCGATGAGCTCTCGTATGTTTACAGCAGCAGTTACGACACCTATGCTAATGCCAACA
 GCACAGCCACCCCGTGGGCCCTCGAAATGCTGGCAGCCGTGCCAAGACCGTCACAGAGCAGAGTGGGCA
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209362 protein sequence
 Red=Cloning site Green=Tags(s)

MVRHQPLQYYEPQLCLSLTGIYGCWKRYQRSHDDTTPWERLWFLLLVCTFSLTLTWLYFWWGVHNDYD
 EFNWLYNRMGYWSDWSVPILVTSAAFTYIAGLLVLALCHIAVGQQLNLHWIHKMGLVVILASTVVAMS
 AVAQLWEDEWEVLLISLQGTAPFLHIGALVAITALSWIVAGQFARAERSSQLTILCTFFAVVFTFYLI
 P LTISSPCIMEKKDLGPKPALIGHRGAPMLAPEHTVMSFRKALEQRLYGLQADITISLDGVPFLMHD TTLR
 RTTNVEHLFPELARRPAAMLNWTVLQRLNAGQWFLKTDPFWTASSLSPSDHREVQNQSICSLAEELLEAK
 GNASLLNLNRDPPRDHPYRGSFLNVTLEAVLRSGFPQHVMWLFNRQRPLVRKMAPGFQQTSGSKEAIA
 LRKGHIQKLNLRYTQVSHQELRDYASWNLVNLVTVPWLFSLWCAGVPSVTSNDSHTLSRVPSPLWI
 MPPDEYCLMWVTADLISFSLIIGIFVLQKWLGGIRSYNPEQIMLSAIVRRTRSDVSIMKEKLI FSEISD
 GVEVSDLSVCSYDSSYDTYANANSTATPVGPRNAGSRAKT VTEQSGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201352

ORF Size: 1821 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.

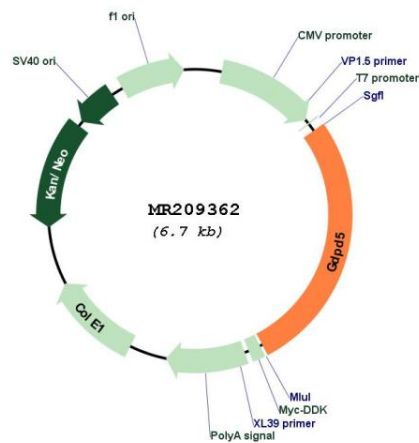
RefSeq: [NM_201352.3](#)

RefSeq Size: 3609 bp

RefSeq ORF: 1824 bp
Locus ID: 233552
UniProt ID: [Q640M6](#)
Cytogenetics: 7 E1
MW: 68.9 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 MR209362