

Product datasheet for **MR208620**

Gdpd2 (NM_023608) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdpd2 (NM_023608) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdpd2
Synonyms:	9130017L10Rik; Gde3; Obdpf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208620 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGATTCCTCCGGCTGCTGCTCCATCTGGGCCCGCTGCCTCCACTGCCTGTACAGCTGCCACTGGA
 GGAAATATCCTAAACAGAAGATGCAAACACGCAAGTGCGACTGTATCTGGTTTGGCCTGCTTTCCTCAC
 TTCCTCCTGTCCCTGGGATGGCTGTACATCGGGCTCATCCTTCTCAATGATCTGCACAACCTCAATGAA
 TTCCTGTTCCGCCATTGGGGACACTGGATGGACTGGTCCCTGATAGTCTGCTGGTCTGCTCTCTCTCTGG
 TCACATATGCATCCTTGCTATTGCTCCTGGCCTGCTCCTGCAACTCTGTGGACAGCCTCTGCATCTTCA
 CAGTCTCCACAAGGTGCTGCTGCTCCTCATTGTACTTCTAGTGGCCGCGGGACTGGTGGGCTGGATATC
 CAATGGCGGCAGGAGTGGCATAGTTTACGACTGTACTGCAGGCCACAGCCCCATTCCTTACATTGGAG
 CAGTTGCTGGAATCACCTTGTGGCCTGGCCTGTGGCTGATACCTTCTACCGCATCCACCAAGAGGCC
 CAAGTTCTGCTACTGTTGCTATTTTTGGAGTCACTCTGGTCATCTACCTGATGCCGCTGCTGTTTCATC
 TCTTCCCCTGCATCATGAAACTCAGAGATTTACCCCCAAGCCTGGGCTGGTGGGACACCGAGGGGCC
 CCATGCTGGCCCCTGAGAATACCCTGATGTCCCTGAGGAAGACAGCTGAATGTGGAGCGGCTGTGTTTGA
 GACAGATGTGATGGTCACTCTGACGGAGTCCCCTTTCTCATGCATGATGAGCGACTGAGCAGGACTACC
 AATGTAGCCTCTGTGTTCCAGAGCGAATCTCAGCCCACAGCAGTGACTTCTCCTGGGCTGAACTGCAGA
 GACTCAATGCTGGAACCTGGTTCCTAGAGAGGCAACCTTTCTGGGGGGCCAAAAGCTGTGAGGCTCTGA
 TCGGAAGGAGGCTGAGAATCAGACCATACCAGCATTAGAAGAATACTGAAGGAAGCAGCAGCTCTCAAC
 CTTTCCATCATGTTTGACTTGCGCCGACCCCCAAGAAACCACACATACTATGATACTTTTGTGAATCAGA
 CACTGGAGGCTGTGTTGAGTGCAACGTGTCCCAAGCTATGGTTCTTTGGCTCCCAGATGAAGACCGTGC
 TAACGTGCAGCAACGCGCCCCCAGAATGCGCCAGATATATGGACATCAGGGAGGCAATTGGACTGAGAGG
 CCCCAGTTTCTCAACCTCCCCTATCAAGACCTGCCAGCATTGGATATCAAGGCCCTGCACCAGGATAATA
 TCTCAGTGAACCTGTTTGTAGTGAACAAGCCCTGGCTCTTCTCCCTGCTCTGGTGTGCAGGGGTGGATTC
 TGTCAACCAATGCCTGCCAGCTGCTGCAACAGATGCAGAACCCCTCTGGCTTCTTCCCCTCAAAAA
 TACTTAATGATTTGGGTGATCACCGACTGTGCCTCATTCTGCTGCTTTTGTGATATCTTCTCTCCGAG
 GGGGATGTGCTAAGAGAAACAGAACAGGCTTAGAAACAGCAGTGTACTGACCAAGATCAACAATTCGCG
 CTCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208620 protein sequence
 Red=Cloning site Green=Tags(s)

MADSPGCCSIWARCLHCLYSCHWRKYPKQKMQTSKDCIWFGLLFLFLLSLGWLYIGLILLNDLHNFNE
 FLFRHWGHWMWDSLIVLLVVSLLVTYASLLLLLGLLLQLCGQPLHLHSLHKVLLLLLIVLLVAAGLVGLDI
 QWRQEWHSRLSLQATAPFLHIGAVAGITLLAWPVADTFYRIHPRGPKVLLLLLFFGVTLVIYLMPLLF
 SSPCIMKLRDLPKPLVGHARGAPMLAPENTLMSLRKTAECGAAVFETDVMVSSDGVFPLMHERLSRTT
 NVASVFPERISAHSSDFSWAELQRLNAGTWFLERQPFWGAKKLSGSDRKEAENQTI PALEELLKEAALN
 LSIMFDLRRPPRNHTYYDTFVNQTL EAVLSANVSQAMVLWLPDEDANVQQRAPRMRQIYGHQGGNWT
 PQFLNLPYQDLPALDIKALHQDNI SVNLFVVNKPWLF SLLWCAGVDSVTTNACQLLQMQNPLWLLPPQK
 YLMIWVITDCASILLLSIFLLRGGCAKRNRTGLETAVLLTKINNFASE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_023608

ORF Size: 1620 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.

RefSeq: [NM_023608.4](#)

RefSeq Size: 2610 bp

RefSeq ORF: 1620 bp

Locus ID: 71584

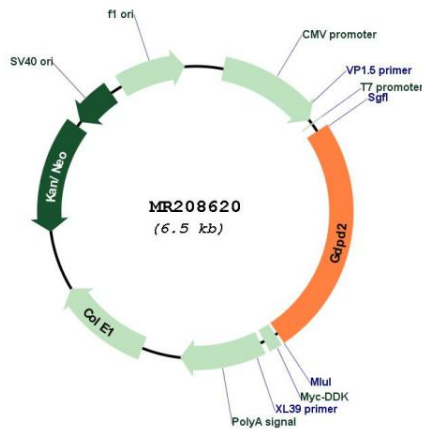
UniProt ID: [Q9ESM6](#)

Cytogenetics: X C3

MW: 61.2 kDa

Gene Summary: This gene encodes a member of the glycerophosphodiester phosphodiesterase enzyme family. The encoded protein hydrolyzes glycerophosphoinositol to produce inositol 1-phosphate and glycerol. Overexpression of this gene is associated with activity-dependent actin cytoskeleton disorganization. The encoded protein may negatively regulate growth rate and induce differentiation of osteoblasts. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR208620