

Product datasheet for **MG208620**

Gdpd2 (NM_023608) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdpd2 (NM_023608) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdpd2
Synonyms:	9130017L10Rik; Gde3; Obdpf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208620 representing NM_023608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGATCCCCGGCTGCTGCTCCATCTGGGCCCGCTGCCTCCACTGCCTGTACAGCTGCCACTGGA
 GGAAATATCCTAAACAGAAGATGCAAACCAGCAAGTGCGACTGTATCTGGTTTGGCTGCTTCCCTCAC
 CTTCTCTCTGTCCTGGGATGGCTGTACATCGGGCTCATCCTTCTCAATGATCTGCACAACCTCAATGAA
 TTCCTGTTCCGCCATTGGGGACTGGATGGACTGGTCCCTGATAGTCTGCTGGTCTGCTCTCTCTCTGG
 TCACATATGCATCCTTGCTATTGCTCCTGGCCTGCTCCTGCAACTCTGTGGACAGCCTCTGCATCTTCA
 CAGTCTCCACAAGGTGCTGCTGCTCCTCATTGTACTTCTAGTGGCCGCGGGACTGGTGGGCTGGATATC
 CAATGGCGGCAGGAGTGGCATAGTTTACGACTGTACTGCAGGCCACAGCCCCATTCCTTACATTGGAG
 CAGTTGCTGGAATCACCTTGTGGCCTGGCCTGTGGCTGATACCTTCTACCGCATCCACCAAGAGGCC
 CAAGTTCTGCTACTGTTGCTATTTTTGGAGTCACTCTGGTCATCTACCTGATGCCGCTGCTGTTTCATC
 TCTTCCCCTGCATCATGAAACTCAGAGATTTACCCCCAAGCCTGGGCTGGTGGACACCGAGGGGCC
 CCATGCTGGCCCCGAGAATACCCTGATGTCCCTGAGGAAGACAGCTGAATGTGGAGCGGCTGTGTTTGA
 GACAGATGTGATGGTCAGCTCTGACGGAGTCCCCTTTCTCATGCATGATGAGCGACTGAGCAGGACTACC
 AATGTAGCCTCTGTGTTCCAGAGCGAATCTCAGCCCACAGCAGTGACTTCTCCTGGGCTGAACTGCAGA
 GACTCAATGCTGGAACCTGGTTCCTAGAGAGGCAACCTTTCTGGGGGGCCAAAAGCTGTGAGGCTCTGA
 TCGGAAGGAGGCTGAGAATCAGACCATACCAGCATTAGAAGAAGTACTGAAGGAAGCAGCAGCTCTCAAC
 CTTTCCATCATGTTTGACTTGCGCCGACCCCAAGAAACACACATACTATGATACTTTTGTGAATCAGA
 CACTGGAGGCTGTGTTGAGTGCAAACGTGTCCCAAGCTATGGTTCTTTGGCTCCCAGATGAAGACCGTGC
 TAACGTGCAGCAACGCGCCCCAGAATGCGCCAGATATATGGACATCAGGGAGGCAATTGGACTGAGAGG
 CCCCAGTTTCTCAACCTCCCCTATCAAGACCTGCCAGCATTGGATATCAAGGCCCTGCACCAGGATAATA
 TCTCAGTGAACCTGTTTGTAGTGAACAAGCCCTGGCTCTTCTCCCTGCTCTGGTGTGCAGGGGTGGATTC
 TGTCAACCAATGCCTGCCAGCTGCTGCAACAGATGCAGAACCCCTCTGGCTTCTTCCCCTCAAAAA
 TACTTAATGATTTGGGTGATCACCGACTGTGCCTCCATTCTGCTGCTTTTGTGATCTTCTCTCCCGAG
 GGGGATGTGCTAAGAGAAACAGAACAGGCTTAGAAACAGCAGTGTACTGACCAAGATCAACAATTCGCG
 CTCTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208620 representing NM_023608
 Red=Cloning site Green=Tags(s)

MADSPGCCSIWARCLHCLYSCHWRKYPKQKMQTSKDCDIWFGLLFLFLLSLGWLVIYGLILLNDLHNFNE
 FLFRHWGHWMDWSLIVLLVVSLLVYASLLLLLGLLLQLCGQPLHLHSLHKVLLLLIVLLVAAGLVGLDI
 QWRQEWHSRLSLQATAPFLHIGAVAGITLLAWPVADTFYRIHPRGPKVLLLLLFFGVTLVIYLMPLLI
 SSPCIMKLRDLPPKPGLVGHGAPMLAPENTLMSLRKTAECGAAVFETDVMVSSDGVFPMHDERLSRTT
 NVASVFPERISAHSSDFSWAELQRLNAGTWFLERQPFWGAKKLSGSDRKEAENQIPALEELLKEAALN
 LSIMFDLRRPPRNHTYYDTFVNQTLAVLSANVSQAMVLWLPEDDRANVQQRAPRMRQIYGHQGGNWT
 PQFLNLPYQDLPALDIKALHQDNISVNLVFNKFWLFSLLWCAGVDSVTTNACQLLQMQNPLWLLPPQK
 YLMIWVITDCASILLLLSIFLLRGGCAKRNRGTLETAVLLTKINNFASE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_023608
ORF Size:	1617 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:	<ol style="list-style-type: none">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:	2520 bp
RefSeq ORF:	1620 bp
Locus ID:	71584
UniProt ID:	Q9ESM6
Cytogenetics:	X C3
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]