

Product datasheet for MR217709

Gnpda1 (NM_011937) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnpda1 (NM_011937) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnpda1
Synonyms:	Gnp1; GNPDA; Gnpi; oscillin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217709 representing NM_011937 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTCATTATCCTGGAACACTATCCAGGCCAGTGAGTGGGCGGCCAAGTATATTAGGAACCGTA
TCATCCAGTTTAACCCAGGGCCTGACAAGTACTCACCCCTGGGGCTCCCCACTGGGAGCACCCCGCTTGG
CTGCTACCAGAAGCTGATCGAGTACTATAAGAATGGGGACCTGTCCTTTCAATATGTGAAAACCTTCAAC
ATGGACGAGTATGTGGTCTTCTCGAGACCACCCAGAGAGTTACCACTCCTTCATGTGGAATAATTCT
TCAAGCACATTGACATCCACCCTGAAAACACCCACATTTTGGATGAAAATGCGGCTGACCTGCAGGCCGA
GTGTGACGCCTTTGAGGAGAAGATCCAGGCTGCCGGAGGGATCGAACTCTTTGTGCGAGGCAATTGGCCCC
GATGGACACATTGCCTTCAATGAGCCAGGCTCCAGCCTGGTGTCCAGGACCCGTGTGAAGACTCTGGCTA
TGGACACCATCCTGGCCAACGCTAGGTTCTTTGATGGTGTCTTGCCAAGGTGCCACCATTGGCCCTGAC
AGTGGGGGTGGCACTGTGATGGATGCTAAAGAGGTGATGATCCTCATCACAGGCGCTCACAAAGGCTTT
GCTCTGTACAAAGCCATCGAGGAGGGCGTGAACCACATGTGGACGGTGTCCGCCTTTGAGCAGCACCC
GCACTGTGTTGTGTGACGAGGACGCCACCTTGAACATAAAAGTGAAGACAGTCAAATATTTCAAAGG
TTAATGCTTGTTCATAACAAGCTGGTGGACCCCTGTACAGTATCAAGGAGAAGGAAATTCAGAAAAGC
CAATCTGCGAAGAAGCCATACAGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217709 representing NM_011937
 Red=Cloning site Green=Tags(s)

MKLIILEHYSQASEWAAKYIRNRIIQFNPGPKYFTLGLPTGSTPLGICYQKLI EYYKNGDLSFYVKT FN
 MDEYVGLPRDHPESYHSFMWNFFKHIDIH PENTHILDGNAADLQAECDAFEKIQAAGGIELFVGGIGP
 DGHIAFNEPGSSLVSRTRVKTLAMDITILANARFFDGLAKVPTMALTVGVTVM DAKEVMILITGAHKAF
 ALYKAIEEGVNHMWTVSFAFQQHPRTV FVCD EDATLELKVTKVYFKGLMLVHNKLV DPLYSIKEKEIQKS
 QSAKKPYS D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011937

ORF Size: 867 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_011937.2](#), [NP_036067.2](#)

RefSeq Size: 2300 bp

RefSeq ORF: 870 bp

Locus ID: 26384

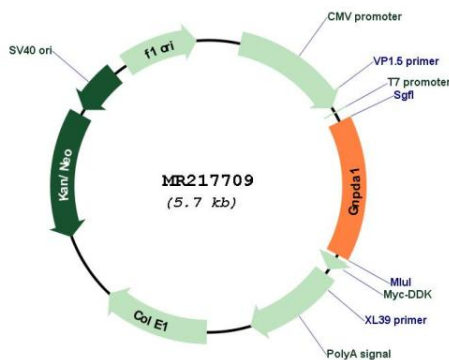
UniProt ID: [O88958](#)

Cytogenetics: 18 B3

MW: 33 kDa

Gene Summary: Seems to trigger calcium oscillations in mammalian eggs. These oscillations serve as the essential trigger for egg activation and early development of the embryo (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217709