

Product datasheet for **MR209501**

Gpaa1 (NM_010331) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpaa1 (NM_010331) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpaa1
Synonyms:	C80044; mGAA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209501 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGTCTCTGTGCGACCCGGTGCGCCGGCGCGCTCGCCCGCATCGTCTTGCGCCTTAACACACCTC
 TCTGTGTGCTGAGCTACGTGGCCGGGATCGCCTGGTTTCTGGCGCTGGCTTTCCGCCGTTAACCCAGCG
 CACTTACATGTCTGAGAATGCCATGGGCTCCACCATGGTGGAGGAACAGTTTGTAGTGGAGACCCGCT
 CGGAGCTTTGCCCGGACTTCGCTGCCACCGCAAGAAGCCGGGGCTCTGCCAGTAGCCTGGTGGAAAC
 GGTCCATGCGATCCGTAGGGCTGGAGGTCTACACCAGAGCTTCTCCCGAAACTACCCTCCCGGATGA
 GACCCACGAGCGCTATATGGTGTGAGTACCAACGTGTATGGCATCTGCGGGCCCCACGTTCTGCCAGT
 ACCGAGTCCCTGGTGCTACTGTACCCTGTGGTCCAGATGCCACCAATAGCCAGGCTGTGGGGTTGTTGT
 TGGCACTTGTGCCATTTCCGAGGGCAGATTTACTGGGCCAAAGATATCATTCTTCTGGTAACAGACCA
 TGATCTTCTGGGCACCGAGGCTTGGCTCGAAGCCTACCATGACATTAATGTTACAGGCATACAGTCACT
 CCCTGCAGGGCAGGGCTGGAGCCATCCAGGCTGCTGTAGCTCTGGAGCTGAGCAGCGACGTTGGTACCA
 GCCTCGATGTGACAGTGGAGGGACTCAACGGTCAGCTGCCCAACCTTGATCTGCTCAACCTCTCCAGAC
 CTTCTGCCAGAAAGGGGGCTGTTGTGTACTCCAGGGCAAGCTGCAGCCCCAGGACTGGACGTCCTC
 GAAGGGCCGTTGCAGGGTTTGCAGACACTGCTACTCATGGTGTGCGGCAGGCTCTGGCCGGCCCCACG
 GCCCCACGGCCTTTTCTGCGCTACGGAGTGGAGGCACTAACCTACCGGCATCAATAGCTTCCGCCA
 ATACAAGTATGATTTGGCGACAGTGGGCAAGGCTCTGGAGGGCATGTTCCGCAAGCTCAACCACCTCCTG
 GAGCGCTGCACCACTATTCTTCTTCTACCTGCTGCCGGCCCTCTCCGCTTTGTCTCCATCGGACTCT
 ACATGCCCGCCACGGGCTTCTGCTCCTAGTCTTGGACTCAAGGCTCTGGAGCTGGATCGGATTACA
 CCAGGCTGGAGTCAACCCGGAGGAGGCTGGGAAGGCCCTAGTCCCGGGACTCCACTCTTGCCAACACAG
 GGTGTGGGCTGCGCTCACTTACGGCACCCCTGCTGATCTCTCAGGCCATGGGTCTGGCCCTCTATTTC
 TGCTGTGCTGGGCCAACATTTAGTACTCAGCATTTCCAGTGGCCGAAGCCGAGGCTGTTGTGTGAC
 GCTGCTCGGATTTATGTAGCCGGCTGGCCCTCCACACAACACCCACCGAGTGGTCAACTCACAGGTC
 CCAGACAGGGGCTGGATGGCACTGAAACTAGTGGCCCTCATCTACCTGGCACTGCAGTGGGTTGCATTG
 CTCTCCTCAATTTCTCCCTGGGCTTCTGCTGGCTGCCACCATGGTCCCTGCTGCTGCACCTGCCAAGCC
 CCATGGGCCCCGACACTGTATGCTGCCCTGCTGGTAGTACCAGCCAGCAGTCACTCTTCGGTAGC
 CTGTTCTGTGGCGGGAGCTGCTGGAGGTACCGCTGTCTTGGCAGAGGTTGGCAGCTCTTCTCACAG
 CATTGGCCAGGGTGTGCTGGAACACTACACTATGGCGCCCTCTTCCCAATACTGGCCTTGGGTCT
 GTATCCTTGTGCTGCTTTTCTGGAATGCTCTTCTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209501 protein sequence
 Red=Cloning site Green=Tags(s)

MGLLSDPVRRLARIVLRLNTPLCVLSYVAGIAWFLALAFPLTQRTYMSNAMGSTMVEEQFVGGDRA
 RSFARDFAAHRKKPGALPVAWLERSMRSVGLVYTSQFSRKLFPDPETHERYMVSGTINVYGILRAPRSAS
 TESLVLTVPCGDATNSQAVGLLLALAAHFRGQIYWAKDIIFLVTDHDLGTEAWLEAYHDINVTGIQSS
 PLQGRAGAIQAAVALELSSDVVTSLDVTEGLNGQLPNLDLLNLFQTFQKGGLLCTLQGKLQPDWTSL
 EGPLQGLQTLMLVLRQASGRPHGPHGLFLRYGVEALTLRGINSFRQYKIDLATVGKALEGMFRKLNHLL
 ERLHQSFYLLPALSRFVSIYMPATGFLLLVLGLKALELWMQLHQAGVNPPEEAGKAPSPGTPLLPTQ
 GVGLASLTAPLLISQAMGLALYFLPVLGQHLATQHFVVAEAEAVVLTLLAIYVAGLALPHNTHRVVNSQV
 PDRGWMALKLVALIYLALQLGCIALLNFSLGFLLAATMVPAAALAKPHGPRTLAAALLVVTSPAVTLFGS
 LFLWRELLEVPVSLAEGWQLFLTALAQGVLEHYTYGALLFPILALGLYPCWLLFNNVLFWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010331

ORF Size: 1866 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_010331.2](#), [NP_034461.1](#)

RefSeq Size: 2036 bp

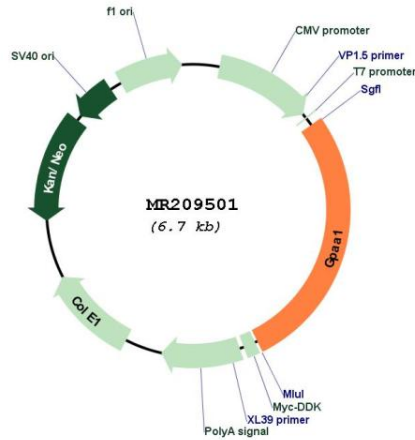
RefSeq ORF: 1866 bp

Locus ID: 14731

UniProt ID: [Q9WTK3](#)

Cytogenetics: 15 D3
MW: 67.9 kDa
Gene Summary: Essential for GPI-anchoring of precursor proteins but not for GPI synthesis. Acts before or during formation of the carbonyl intermediate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209501