

Product datasheet for **RG200271**

GPAA1 (NM_003801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPAA1 (NM_003801) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPAA1
Synonyms:	GAA1; GPIBD15; hGAA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200271 representing NM_003801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCCTCTGTGCGACCCGGTTCGCGGCGCGCGCTCGCCCGCCTAGTGTGCGCCTCAACGCGCCGT
 TGTGCGTGCTGAGCTACGTGGCGGCATCGCCTGGTCTTGGCGCTGGTTTTCCCGCCGCTGACCCAGCG
 CACTTACATGTCGGAGAACGCCATGGGCTCCACCATGGTGGAGGAGCAGTTTGGCGGGGAGACCGTGCC
 CGGGCTTTTCCCGGGACTTCGCGGCCACCGCAAGAAGTCGGGGGCTCTGCCAGTGGCCTGGCTTGAAC
 GGACGATGCGGTGAGTGGGCTGGAGGTCTACACGCAGAGTTTCTCCCGAAACTGCCCTCCAGATGA
 GACCCACGAGCGCTATATGGTGTGCGGCACCAACGTGTACGGCATCTGCGGGCCCCGCGTGTGCCAGC
 ACCGAGTCGCTTGTGCTCACCGTGCCTGTGGCTGACTCTACCAACAGCCAGGCTGTGGGGCTGTGTC
 TGGCAGTGGCTGCCACTTCCGGGGCAGATTTATTGGGCCAAAGATATCGTCTTCTGGTAACAGAACA
 TGACCTTCTGGGCACTGAGGCTTGGCTTGAAGCCTACCACGATGTCAATGCTCACTGGCATGCAGTGTCT
 CCCTGCAGGGCCGAGCTGGGGCCATTCAGGCAGCCGTGGCCCTGGAGCTGAGCAGTGTGGTACCA
 GCCTCGATGTGGCCGTGGAGGGCTTAACGGGCAGCTGCCCAACCTTGACCTGCTCAATCTCTCCAGAC
 CTTCTGCCAGAAAGGGGCTGTGTGCACGCTTCAGGGCAAGCTGCAGCCCAGGACTGGACATCATTG
 GATGGACCGCTGCAGGGCCTGCAGACACTGCTGCTCATGGTTCTGCGGCAGGCTCCGGCCGCCCCACG
 GCTCCCATGGCCTCTTCTGCGCTACCGTGTGGAGGCCATAACCTGCGTGGCATCAATAGCTTCCGCCA
 GTACAAGTATGACCTGGTGGCAGTGGCAAGCCTTGGAGGGCATGTTCCGCAAGCTCAACCACCTCCTG
 GAGCGCTGCACCAGTCTTCTTCTCTACTTGTCTCCCGGCTCTCCGCTTCTCCATCGGCCTCT
 ACATGCCCGCTGTGGCTTCTTGTCTCTTGGTCTTGGTCTCAAGGCTCTGGAAGTGGATGCAGCTGCA
 TGAGGCTGGAATGGCCCTTGGAGAGCCCGGGGTGCCCTGGCCCCAGTGTACCCCTTCCCCATCACAG
 GGTGTGGGGCTGGCCTCGCTCGTGGCACCTCTGCTGATCTCACAGGCATGGGACTGGCCCTCTATGTCC
 TGCCAGTGTGGGCCAACACGTTGCCACCCAGCACTTCCAGTGGCAGAGGCTGAGGCTGTGGTGTGAC
 ACTGCTGGCGATTTATGCAGCTGGCCTGGCCCTGCCCCACAATACCCACCGGGTGGTAAGCACACAGGCC
 CCAGACAGGGGCTGGATGGCACTGAAGCTGGTAGCCCTGATCTACCTAGCACTGCAGTGGGCTGCATCG
 CCCTACCAACTTCTCACTGGGCTTCTGCTGGCCACCACCATGGTGGCCACTGCTGCGCTTGCCAAGCC
 TCATGGGCCCCGACCCTCTATGCTGCCCTGCTGGTGTGACCAGCCCGGAGCCAGCTCCTTGGCAGC
 CTGTTCTGTGGCGGAGCTGCAGGAGGCCACTGTCACTGGCCGAGGGCTGGCAGCTCTTCTGGCAG
 CGCTAGCCAGGGTGTGCTGGAGCACCACCTACGGCGCCCTGCTCTCCCACTGCTGTCCCTGGGCT
 CTACCCCTGCTGGCTGCTTTTCTGGAATGTGCTCTTCTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200271 representing NM_003801
 Red=Cloning site Green=Tags(s)

MGLLSDPVRRRALARLVLRNAPLCVLSYVAGIAWFLALVFPPLTQRTYMSNAMGSTMVEEQFAGGDRA
 RAFARDFAAHRKSGALPVAWLERTMRSVGLVYTSQFSRKLPPDETHRYMVSNTVYVILRAPRAAS
 TESLVLTVPCGSDSTNSQAVGLLLALAAHFRGQIYWAKDIVFLVTEHDLGTEAWLEAYHDVNVGMQSS
 PLQGRAGAIQAAVALELSSDVVTSLDVAVEGLNGQLPNLDLLNLFQTFQKGLLCTLQKLPEDWTSL
 DGPLQGLQTLMLVLRQASGRPHGSHGLFLRYRVEALTLRGINSFRQYKYDLVAVGKALEGMFRKLNHLL
 ERLHQSFLLYLLPGLSRFVSIPLYMPAVGFLLLVLGLKALELWMQLHEAGMGLEEPGGAPGPSVPLPPSQ
 GVGLASLVAPLLISQAMGLALYVLPVLGQHVATQHFPVAEAEAVVLTLLAIYAAGLALPHNTHRVSTQA
 PDRGWMALKLVALIYLALQLGCIALTNFSLGFLATTMVPPTAALAKPHGPRTLYAALLVLTSPAATLLGS
 LFLWRELQEAPLSLAEGWQLFLAALAQQVLEHHTYGALLFPLLSLGLYPCWLLFNNVLFWK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003801

ORF Size: 1863 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_003801.4](#)

RefSeq Size: 2105 bp

RefSeq ORF: 1866 bp

Locus ID: 8733

UniProt ID: [O43292](#)

Cytogenetics: 8q24.3

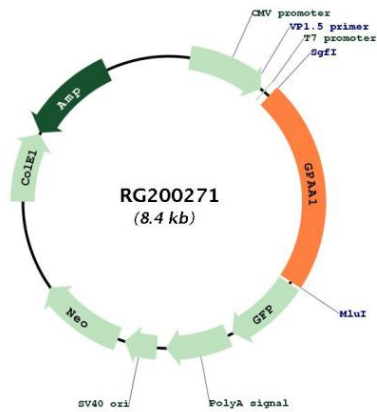
Domains: Gaa1

Protein Families: Transmembrane

Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways

Gene Summary: Posttranslational glycosylphosphatidylinositol (GPI) anchor attachment serves as a general mechanism for linking proteins to the cell surface membrane. The protein encoded by this gene presumably functions in GPI anchoring at the GPI transfer step. The mRNA transcript is ubiquitously expressed in both fetal and adult tissues. The anchor attachment protein 1 contains an N-terminal signal sequence, 1 cAMP- and cGMP-dependent protein kinase phosphorylation site, 1 leucine zipper pattern, 2 potential N-glycosylation sites, and 8 putative transmembrane domains. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200271