

Product datasheet for **RG218899**

alpha Glucosidase II (GANAB) (NM_198334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Glucosidase II (GANAB) (NM_198334) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	alpha Glucosidase II
Synonyms:	G2AN; GIIA; GLUII; PKD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG218899 representing NM_198334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGCGGTAGCGGCAGTGGCGGCGGTAGGAGGCGGTCTTGGCGTCTTTGGTACTGGCTTTTTTATG
GGTCTGCCTGGGATTACCTTGCTGTGGATAGAAGCAACTTTAAGACCTGTGAAGAGAGTTCTTTCTG
CAAGCGACAGAGAAGCATACGGCCAGGCCCTCTCCATACCGAGCCTTGCTGGACTCTACAGCTTGGT
CCTGATCCCTCACGGTCCATCTGATCCATGAGGTACCAAGGTGTTGCTGGTGCTAGAGCTTACAGGGC
TTCAAAGAACATGACTCGGTTCAAGATTGATGAGCTGGAGCCTCGGCGACCCCGATACCGTGTACCAGA
TGTTTTGGTGGCTGATCCACCAATAGCCCGGCTTTCTGTCTCTGGTCTGATGAGAACAGTGTGGAGTTA
ACCATGGCTGAGGGACCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACTAGAGGACC
GAAGTCTTTTGTAGTGTCAATGCCCGAGGACTCTGGAGTTTGGAGTATGAGCAGAGGGCCCTAGGGTCTC
GCAAGGATCAAAGACCCAGCTGAGGGCGATGGGGCCAGCCTGAGGAAACACCCAGGGATGGCGACAAG
CCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCCAGGAGCCTGGGAGGAGACATTCAAAACACTCACT
CTGACAGCAAGCCGATGGCCCCATGTCTGTGGGTTTGGACTTCTCTGCCAGGATGGAGCATGTCTA
TGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGTCACTGAGGGTGGGAGCCATATCGCCTCTAC
AATTTGGATGTGTTCCAGTATGAGCTGTACAACCAATGGCCTTGTATGGGTCTGTGCCTGTGCTCCTGG
CACACAACCTCATCGCGACTTGGGCATCTTCTGGCTCAATGTCTGAGAGACCTGGGTTGATATATCTTC
CAACACTGCCGGGAAGACCCTGTTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGAGACCCACAG
ACAGATGTTCTGCTGGATGTCAGAGACTGGCATCATTGACGCTTCTCTGCTGCTGGGGCCCTCCATCTCTG
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CTGCCCTGTGATGTCATCTGGCTAGACATTGAACATGCTGATGGCAAGCGGATTTTACCTGGGACCCCA
GTCGCTTCCCTCAGCCCCGACCATGCTTGAGCGCTTGGCTTCTAAGAGCGGAAGCTGGTGGCCATCGT
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AAAACCCGGGATGGCTCTGACTATGAGGGCTGGTGTGGCCAGGCTCAGTGGTTACCCTGACTTCACTA
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CAGCATTATGGGGCTGGGAGCACCGGGATGTGCATAACATCTATGGCCTTTATGTGCATGCGGACTG
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CCTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTCCTTCTGTGGGGCGGATGTGGGTGGCTTCTTAAAA
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CAAGGAGAGCTCTTTCTGGATGATGGGCACACGTTCAACTATCAGACTCGCCAAGAGTTCCTGCTGCGTC
GATTCTCATTCTGGCAACACCCTTGTCTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACCAAT
CTGGATTGAGCGGTGGTATAATAGGGCTGGAAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCT
CCAGAAAGCCGCTGTCTTCCAGCATGACCCTGAGACCTCTGTGTTGGTCTGCGCAAGCTGGCATCA
ATGTGGCATCTGATTGGAGTATTCACCTGCGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218899 representing NM_198334
 Red=Cloning site Green=Tags(s)

MAAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCRQRSIRPGLSPYRALDLSLQLG
 PDSLTVHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLVADPPIARLSVSGRDENSVEL
 TMAEGPYKIILTARPFRLDLEDRSLLL SVNARGLLEFEHQRAPRVSQGSKDPAEGDGAQPEETPRDGDK
 PEETQGKAEKDEPGAWREETFKTHSDSKPYGPM SVGLDFSLPGMEHVYGIPEHADNLRKLVTEGGEPYRLY
 NLDVVFQYELYNPMALYGSVPVLLAHNPHRDLGIFWLNAAETWVDISSNTAGKTLFGKMMDYLQGSGETPQ
 TDVRWMSSETGIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHN
 LPCDVIWL DIEHADGKRYFTWDPSRFPQRTMLERLASKRRKLVAVDPHIKVDVSGYRVHEELRNLGLYV
 KTRDGSDEYEGWCWPGSAGYPDFTNPTMRAWANMF SYDNYEGSAPNLFVWDMNEPSVFNNGPEVTMLKDA
 QHYGGWEHRDVHNIYGLYVHMATADGLRQRSGGMERPFVLARAFFAGSQRFGAVWTGDNTAEWDHLKISI
 PMCLSLGLVGLSFCGADVGGFFKNPEPELLVRWYQMGAYQPF FRAHAHLDTGRREPWLLPSQHNDIIRDA
 LGQRYSLLPFWYLLYQAHREGIPVMRPLWVQYPQDVTTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLP
 GQGEVWYDIQSYQKHHGPQTL YLPVTLSSIPVFQRGGTIVPRWMRVRRSSECMKDDPITL FVALSPQGT
 QGELFLDDGHTFNYQTRQEFLLRRFSFGNTLVSSADPEGHFETPIWIERVVIIGAGKPAAVVLQTKGS
 PESRSLSFQHPETSVLVLRKPGINVASDWSIHLR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

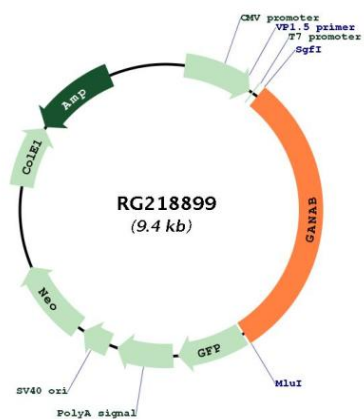


ACCN: NM_198334

ORF Size: 2832 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_198334.3
RefSeq Size:	3887 bp
RefSeq ORF:	2835 bp
Locus ID:	23193
UniProt ID:	Q14697
Cytogenetics:	11q12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	This gene encodes the alpha subunit of glucosidase II and a member of the glycosyl hydrolase 31 family of proteins. The heterodimeric enzyme glucosidase II plays a role in protein folding and quality control by cleaving glucose residues from immature glycoproteins in the endoplasmic reticulum. Expression of the encoded protein is elevated in lung tumor tissue and in response to UV irradiation. Mutations in this gene cause autosomal-dominant polycystic kidney and liver disease. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG218899