

Product datasheet for **RG239645**

alpha Glucosidase II (GANAB) (NM_001278193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Glucosidase II (GANAB) (NM_001278193) 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:

>RG239645 representing NM_001278193.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCGGCGGTAGCGGCAGTGGCGGCGGTAGGAGGCGGCTTCTGTCTCTGGTCTGATGAGAACAGT
GTGGAGTTAACCATGGCTGAGGGACCTACAAGATCATCTTGACAGCACGCCATTCCGCCCTTGACCTA
CTAGAGGACCGAAGTCTTTTGTAGTGTCAATGCCCGAGGACTCTGGAGTTTGAGCATCAGAGGGCC
CCTAGGGTCTCGCAAGGATCAAAAGACCCAGCTGAGGGCGATGGGGCCAGCCTGAGGAAACACCCAGG
GATGGCGACAAGCCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCCAGGAGCCTGGGAGGAGACA
TTCAAACACTACTCTGACAGCAAGCCGATGGCCCATGTCTGTGGGTTTGGACTTCTCTGCCAGGC
ATGGAGCATGTCTATGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGGTCCTGAGGGTGGGGAG
CCATATCGCCTACAATTTGGATGTGTCCAGTATGAGCTGTACAACCAATGGCCTTGTATGGGTCT
GTGCCTGTGCTCCTGGCACACAACCCTCATCGGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACC
TGGGTTGATATATCTTCCAACACTGCCGGGAAGACCCTGTTTGGGAAGATGATGGACTACCTGCAGGGC
TCTGGGGAGACCCACAGACAGATGTTCCGCTGGATGTCAGAGACTGGCATTGACGTCTTCTCGCTG
CTGGGGCCCTCCATCTCTGATGTTTTCCGGAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCCA
CTTTCTCCCTCGGCTACCACCAGAGCCGTTGGAACCTACCGGGACGAGGCTGATGTGCTGGAAGTGGAT
CAGGGCTTTGATGATCACAACCTGCCCTGTGATGTCTGCTAGACATTGAACATGCTGATGGCAAG
CGGTATTTACCTGGGACCCAGTCGTTCCCTCAGCCCCGACCATGCTTGAGCGCTTGGCTTCTAAG
AGGCGGAAGCTGGTGGCCATCGTAGACCCACATCAAGTGGACTCCGGCTACCGAGTTCACGAGGAG
CTGCGGAACCTGGGGCTGTATGTTAAACCCGGGATGGCTCTGACTATGAGGGCTGGTCTGGCCAGGC
TCAGTGGTTACCTGACTTCACTAATCCACGATGAGGGCCTGGTGGGTAACATGTTCCAGCTATGAC
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CCTGAGGTCACCATGCTCAAGGATGCCAGCATTATGGGGCTGGGAGCACCGGGATGTGCATAACATC
TATGGCCTTATGTGCACATGGCGACTGCTGATGGGCTGAGACAGCGCTCTGGGGCATGGAACGCCCC
TTTGTCTGGCCAGGGCCTTCTTCGCTGGCTCCAGCGCTTTGGAGCCGTGGGACAGGGGACAACACT
GCCGAGTGGGACCATTTGAAGATCTCTATTCTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTCCTTC
TGTGGGGCGGATGTGGGTGGCTTCTTCAAACCCAGAGCCAGAGCTGCTGTGCGCTGGTACCAGATG
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ACCCTCTTATATCAGGCCATCGGGAAGGCATTCTGTGATGAGGCCCTGTGGGTGCAGTACCCTCAG
GATGTGACTACCTTCAATATAGATGATCAGTACTTGTCTGGGGATGCGTTGCTGGTTCACCTGTATCA
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TACCAGAAGCATCATGGTCCCCAGACCCTGTACCTGCCTGTAACCTAAGCAGTATCCCTGTGTTCCAG
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ATCACTCTCTTTGTTGCACTTAGCCCTCAGGGTACAGCTCAAGGAGAGCTCTTTCTGGATGATGGGCAC
ACGTTCAACTATCAGACTCGCCAAGAGTTCCTGCTGCGTCGATTCTCATTCTCTGGCAACACCCTGTG
TCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGGTGGTATAATAGGG
GCTGGAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAGCCGCTGTCTTCCAGCAT
GACCCTGAGACCTCTGTGTTGGTCTGCACAAGCCTGGCATCAATGTGGCATCTGATTGGAGTATTAC
CTGCGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239645
 Blue=ORF Red=Cloning site Green=Tag(s)

MAVAAVAARRRRLSVSGRDENSVELTMAEGPYKIILTARPFRLDLEDRLSVNARGLLEFEHQRA
 PRVSQGSKDPAEGDGAQPEETPRDGDKPEETQGKAEKDEPGAWEEFKTHSDSKPYGPMVGLDFSLPG
 MEHVGIIPEHADNLRKLVTEGGEPYRLYNLDVFQYELYNPMALYGSVPVLLAHNPHRDLGIFWLNAET
 WVDISSNTAGKTLFGKMDYLQSGGETPQTDVRWMSETGIIDVFLLLGPSISDVFRQYASLTGTQALPP
 LFSLGYHQSRWNYRDEADVLEVDQGFDDHNLPCDVIWLDIEHADGKRYFTWDPFRFPQPRTMLERLASK
 RRKLVAIVDPHIKVDSGYRVHEELRNLGLYVKTRDGSYEGWCWPGSAGYPDFTNPTMRAWANMFSYD
 NYEGSAPNLFVWDMNEPSVFNQPEVTMLKDAQHYGGWEHRDVHNIYGLYVHMATADGLRQRSGGMERP
 FVLARAFFAGSQRFGAVWTGDNTAEWDHLKISIPMCLSLGLVGLSFCGADVGGFFKNPEPELLVRWYQM
 GAYQPPFRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTLQYAHREGIPVMRPLWVQYPQ
 DVTTFNIDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQSYQKHHGPQTLVLPVTLSSIPVFQ
 RGGTIVPRWVRVRSSECMKDDPITLFFVALSPQGTAAQGEFLDDGHTFNYQTRQEFLLRRFSFGNTLV
 SSSADPEGHFETPIWIERVVIIGAGKPAAVVLQTKGSPESRSLSFQHPETSVLVLRKPGINVASDWSIH
 LR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001278193

ORF Size: 2490 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).

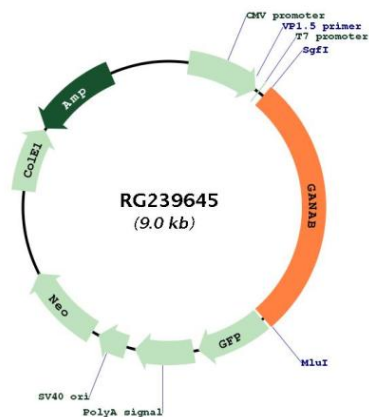
RefSeq: [NM_001278193.2](#)

RefSeq Size: 3618 bp

RefSeq ORF: 2493 bp
Locus ID: 23193
UniProt ID: [Q14697](#)
Cytogenetics: 11q12.3
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Metabolic pathways, N-Glycan biosynthesis
MW: 94.4 kDa

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 RG239645