

Product datasheet for **RG239673**

alpha Glucosidase II (GANAB) (NM_001278194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Glucosidase II (GANAB) (NM_001278194) 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:

>RG239673 representing NM_001278194.
Blue=ORF Red=Cloning site Green=Tag(s)

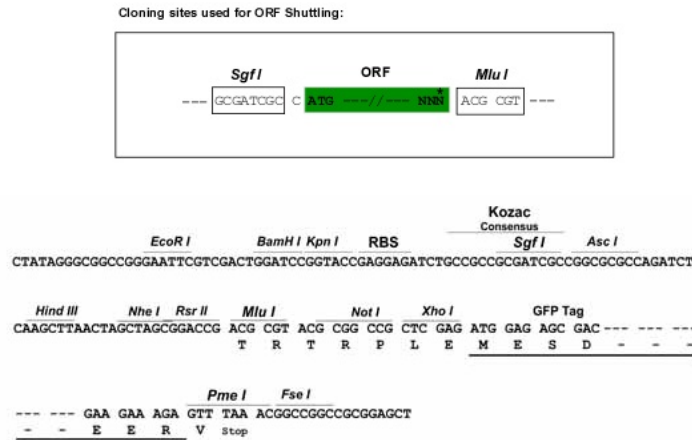
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TTGGTCTGCGCAAGCCTGGCATCAATGTGGCATCTGATTGGAGTATTCACCTGCGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239673
 Blue=ORF Red=Cloning site Green=Tag(s)

MTRFRIDELEPRRPRYRVPDVLVADPPIARL SVSGRDENSVEL TMAEGPYKIIL TARPFRLLDLED RSL
 LLSVNARGLLEFEHQRAPRV SQGSKDPAEGDGAQPEETPRDGDKPEETQ GKAEKDEPGAW EETFKTHSD
 SKPYGPM SVGLDFSLPGMEHVYGIPEHADNLR LKVTGGEPYRLYNLDVFQYEL YNPMAL YG SVPVLLA
 HNP HRDLGIFWL NAAETWVDI SSNTAGKTLFGK MMDYLQGSGETPQTDVRWMSETGIIDV FLLLGPSIS
 DVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHNLPCDVIWLDIEHADGKRYFTWD
 PSRFPQPRTMLERLASKRRKLVAIVDPHIKVDSGYRVHEELRNGLYVKTRDGS DYEGWCWPGSAGYPD
 FTNPTMRAWWANMFSYDNYEGSAPNLFVWDMNEPSVFN GPEVTMLKDAQHYGGWEHRDVHNIYGLYVH
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 GFFKNPEPELLVRWYQMGAYQPF FRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWY TLLYQA
 HREGIPVMRPLWVQYPQDV TTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQSYQKHHG
 PQTL YLPVTLSSIPVFQ RGGTIVPRWVRVRSSECMKDDPITL FVALSPQGT AQGELFLDDGHTFNYQT
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 LVL RKP GINVASDWSIHLR
 TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
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 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001278194

ORF Size: 2541 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).

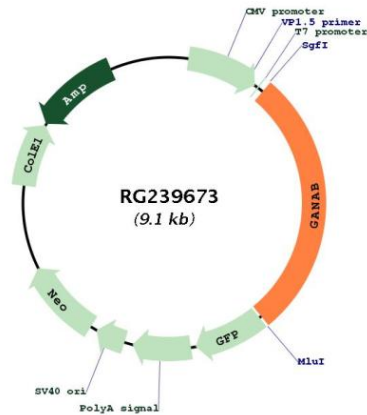
RefSeq: [NM_001278194.1](#), [NP_001265123.1](#)

RefSeq Size: 3851 bp

RefSeq ORF: 2544 bp
 Locus ID: 23193
 UniProt ID: [Q14697](#)
 Cytogenetics: 11q12.3
 Protein Families: Druggable Genome, Transmembrane
 Protein Pathways: Metabolic pathways, N-Glycan biosynthesis
 MW: 96.7 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 RG239673