

Product datasheet for **RC239673**

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:	Myc-DDK
Symbol:	GANAB
Synonyms:	G2AN; GIIA; GLUII; PKD3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239673 representing NM_001278194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

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Protein Sequence: >RC239673 representing NM_001278194
Red=Cloning site Green=Tags(s)

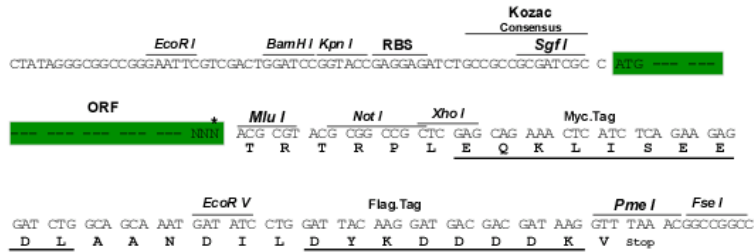
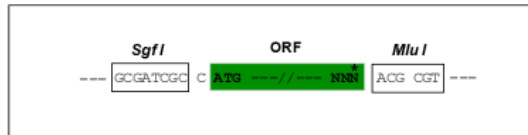
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PYGPM SVGLDFSLPGMEHVYGIPEHADNLR LKVT EGGEYRLYNLDV FQYELYNPMALYGSVPVLLAHNP
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ELLVRWYQMGAYQPF FRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTL LYQAHREGIPVMR
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SSIPVFQRGGTIVPRW MRVRRSSECMKDDPITL FVALSPQGT AQGELFLDDGHTFNYQTRQEFLLRRFSF
SGNTLVSSADPEGHFETPIWI ERVVIIGAGKPAAVVLQTKGSPESRLSFQHPETS VLVLRKPGINVAS
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Restriction Sites: Sgfl-Mlul

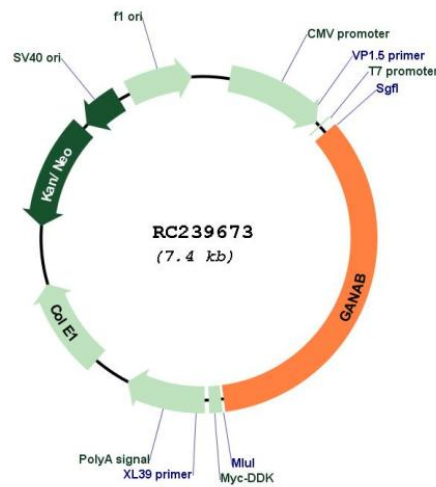
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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).
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_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]