

## Product datasheet for **SC337567**

### alpha Glucosidase II (GANAB) (NM\_001278194) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Glucosidase II (GANAB) (NM_001278194) Human Untagged Clone
Tag:	Tag Free
Symbol:	GANAB
Synonyms:	G2AN; GIIA; GLUII; PKD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001278194, the custom clone sequence may differ by one or more nucleotides

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ATGACTCGGTTTCAGGATTGATGAGCTGGAGCCTCGGCGACCCCGATACCGTGTACCAGATGTTTTGGTGG
CTGATCCACCAATAGCCCGGCTTTCTGTCTCTGGTCGTGATGAGAACAGTGTGGAGTTAACCATGGCTGA
GGGACCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACTAGAGGACCGAAGTCTTTTG
CTTAGTGTCAATGCCCGAGGACTCTGGAGTTTGAGCATCAGAGGGCCCCTAGGGTCTCGCAAGGATCAA
AAGACCCAGCTGAGGGCGATGGGGCCAGCCTGAGGAAACACCCAGGGATGGCGACAAGCCAGAGGAGAC
TCAGGGGAAGGCAGAGAAAGATGAGCCAGGAGCCTGGGAGGAGACATTAAAACTCACTCTGACAGCAAG
CCGTATGGCCCCATGTCTGTGGGTTGGACTTCTCTGCCAGGCATGGAGCATGTCTATGGGATCCCTG
AGCATGCAGACAACCTGAGGCTGAAGGTCACTGAGGGTGGGGAGCCATATCGCCTCTACAATTTGGATGT
GTTCCAGTATGAGCTGTACAACCAATGGCCTTGATGGGTCTGTGCCTGTGCTCCTGGCACACAACCTT
CATCGCGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACCTGGGTTGATATATCTTCCAACACTGCCG
GGAAGACCCTGTTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGGAGACCCACAGACAGATGTTTCG
CTGGATGTCAGAGACTGGCATCATTGACGTCTTCTGCTGCTGGGGCCCTCCATCTCTGATGTTTTCCGG
CAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCCACTCTTCTCCCTCGGCTACCACCAGAGCCGTT
GGAACACCGGGACGAGGCTGATGTGCTGGAAGTGGATCAGGGCTTTGATGATCACAACCTGCCCTGTGA
TGTCACTGGCTAGACATTGAACATGCTGATGGCAAGCGGATTTACCTGGGACCCAGTCGCTTCCCT
CAGCCCCGCACCATGCTTGAGCGCTTGGCTTCTAAGAGGCGGAAGCTGGTGGCCATCGTAGACCCCAACA
TCAAGTGGACTCCGGCTACCGAGTTCACGAGGAGCTGCGGAACCTGGGGCTGTATGTTAAAACCCGGGA
TGGCTCTGACTATGAGGGCTGGTGTGCTGGCCAGGCTCAGCTGGTTACCCTGACTTCACTAATCCCACGATG
AGGGCTGGTGGGCTAACATGTTCACTATGACAATTATGAGGGCTCAGCTCCCAACCTCTTTGTCTGGA
ATGACATGAACGAACCATCTGTGTTCAATGGTCTGAGGTCAACATGCTCAAGGATGCCAGCATTATGG
GGGCTGGGAGCACCGGGATGTGCATAACATCTATGGCCTTTATGTGCACATGGCGACTGCTGATGGGCTG
AGACAGCGCTCTGGGGCATGGAACGCCCTTTGTCTGGCCAGGGCCTTCTTCGCTGGCTCCCAGCGCT
TTGGAGCCGTGTGGACAGGGGACAACACTGCCGAGTGGGACCATTTGAAGATCTCTATTCTATGTGTCT
CAGCTTGGGGCTGGTGGGACTTTCCTTCTGTGGGGCGGATGTGGGTGGCTTCTTCAAAAACCCAGAGCCA
GAGCTGCTTGTGCGCTGGTACCAGATGGGTGCTTACCAGCCATTCTCCGGGCACATGCCCACTTGGACA
CTGGGCGACGAGGCCATGGCTGTTACCATCTCAGCACAATGATATAATCCGAGATGCCTTGGGCCAGCG
ATATTCTTTGCTGCCCTTCTGGTACACCCTTTATATCAGGCCCATCGGGAAGGCATTCTGTCTGAGG
CCCTGTGGGTGACGTACCCTCAGGATGTGACTACCTTCAATATAGATGATCAGTACTTGCCTGGGGATG
CGTTGCTGGTTCACCCTGTATCAGACTCTGGAGCCCATGGTGTCCAGGTCTATCTGCCTGGCCAAGGGGA
GGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCCAGACCCTGTACCTGCCTGTAACCTCTA
AGCAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCCTCGATGGATGCGAGTGCGGCGGTCTTCAG
AATGATGAAGGATGACCCCATCACTCTCTTGTGCACTTAGCCCTCAGGGTACAGTCAAGGAGAGCT
CTTTCTGGATGATGGGCACAGTTCACATCAGACTCGCAAGAGTTCTGTGCTGCGTTCGATTCTCATTCT
TCTGGCAACACCCTTGTCTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGC
GGGTGGTGATAAATAGGGGCTGGAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAAGCCG
CCTGTCTTCCAGCATGACCCTGAGACCTCTGTGTTGGTCTGCCAAGCCTGGCATCAATGTGGCATCT
GATTGGAGTATTACCTGCGATAA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001278194

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001278194.1, NP_001265123.1</u>
<b>RefSeq Size:</b>	3851 bp
<b>RefSeq ORF:</b>	2544 bp
<b>Locus ID:</b>	23193
<b>UniProt ID:</b>	<u>Q14697</u>
<b>Cytogenetics:</b>	11q12.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (6) has multiple differences in the coding region including translation initiation at a downstream start codon, but maintains the reading frame, compared to variant 3. The resulting isoform (6) has a shorter N-terminus, compared to isoform 6.</p>