

Product datasheet for **SC337539**

alpha Glucosidase II (GANAB) (NM_001278193) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | alpha Glucosidase II (GANAB) (NM_001278193) 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_001278193, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGTAGCGGCAGTGGCGGCGCGTAGGAGGCGGCTTTCTGTCTCTGGTCGTGATGAGAACAGTG
TGGAGTTAACCATGGCTGAGGGACCCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACT
AGAGGACCGAAGTCTTTTGTAGTGTCAATGCCCGAGGACTCTGGAGTTTGAGCATCAGAGGGCCCT
AGGGTCTCGCAAGGATCAAAGACCAGCTGAGGGCGATGGGGCCAGCCTGAGGAAACACCAGGGATG
GCGACAAGCCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCCAGGAGCCTGGGAGGAGACATTCAA
AACTCACTCTGACAGCAAGCCGATGGCCCATGTCTGTGGGTTTGGACTTCTCTCTGCCAGGCATGGAG
CATGTCTATGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGGCTCACTGAGGGTGGGAGCCATATC
GCCTCTACAATTTGGATGTGTTCCAGTATGAGCTGTACAACCAATGGCCTTGTATGGGTCTGTGCCTGT
GCTCTGGCACACAACCCTCATCGGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACCTGGGTGAT
ATATCTTCCAACACTGCCGGGAAGACCCTGTTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGAGA
CCCCACAGACAGATGTTCTGCTGGATGTCAGAGACTGGCATCATTGACGTCTTCTGCTGCTGGGGCCCTC
CATCTCTGATGTTTTCCGCAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCACTCTTCCCTC
GGTACCACCAGAGCCGTTGGAACCTACCGGACGAGGCTGATGTGCTGGAAGTGGATCAGGGCTTTGATG
ATCACAACCTGCCCTGTGATGTCATCTGGCTAGACATTGAACATGCTGATGGCAAGCGGTATTTACCTG
GGACCCAGTCGCTTCCCTCAGCCCCGACCATGCTTGAGCGCTTGGCTTCTAAGAGGCGGAAGCTGGTG
GCCATCGTAGACCCACATCAAGGTGGACTCCGGCTACCGAGTTCACGAGGAGCTGCGGAACCTGGGGC
TGTATGTTAAACCCGGGATGGCTCTGACTATGAGGGCTGGTGTGGCCAGGCTCAGCTGGTTACCTGA
CTTCACTAATCCCACGATGAGGGCCTGGTGGGCTAACATGTTCACTATGACAATTATGAGGGCTCAGCT
CCCAACCTTTTGTCTGGAATGACATGAACGAACCATCTGTGTTCAATGGTCTGAGGTCACCATGCTCA
AGGATGCCCAGCATTATGGGGCTGGGAGCACCGGGATGTGCATAACATCTATGGCCTTTATGTGCACAT
GGCGACTGCTGATGGGCTGAGACAGCGCTCTGGGGCATGGAACGCCCTTTGCTCTGGCCAGGGCCTTC
TTCGCTGGCTCCCAGCGCTTGGAGCCGTGTGGACAGGGGACAACACTGCCGAGTGGGACCATTTGAAGA
TCTCTATTCTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTCCTTCTGTGGGGCGGATGTGGGTGGCTT
CTTCAAAAACCCAGAGCCAGAGCTGCTTGTGCGCTGGTACCAGATGGGTGCTTACCAGCCATTCTCCGG
GCATGCCCCTGGACTGGGCGACGAGGCCATGGCTGTTACCATCTCAGCACAATGATATAATCC
GAGATGCCTTGGCCAGCGATATCTTTGCTGCCCTTCTGGTACACCCTTATATCAGGCCCATCGGGA
AGGCAATCCTGTCATGAGGCCCTGTGGGTGCAGTACCCTCAGGATGTGACTACCTCAATATAGATGAT
CAGTACTTGTGGGGATGCGTTGCTGGTTCACCTGTATCAGACTCTGGAGCCATGGTGTCCAGGCTCT
ATCTGCCTGGCCAAGGGGAGGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCCAGACCT
GTACCTGCCTGTAACCTAAGCAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCCTCGATGGATG
CGAGTGCGGCGGTCTTCAAGATGTATGAAGGATGACCCCATCACTCTCTTGTGCACTTAGCCCTCAGG
GTACAGCTCAAGGAGAGCTCTTCTGGATGATGGGCACACGTTCAACTATCAGACTCGCCAAGAGTTCTT
GCTGCGTCGATTCTCATTCTCTGGCAACACCCTGTCTCCAGCTCAGCAGACCCTGAAGGACACTTTGAG
ACACCAATCTGGATTGAGCGGGTGGTATAATAGGGGCTGGAAGCCAGCAGCTGTGGTACTCCAGACAA
AAGGATCTCCAGAAAGCCGCCTGTCTTCCAGCATGACCCTGAGACCTCTGTGTTGGTCTGCGCAAGCC
TGGCATCAATGTGCATCTGATTGGAGTATTCACCTGCGATAA
    
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001278193

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).

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| 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: | <u>NM_001278193.1, NP_001265122.1</u> |
| RefSeq Size: | 3618 bp |
| RefSeq ORF: | 2493 bp |
| Locus ID: | 23193 |
| UniProt ID: | <u>Q14697</u> |
| Cytogenetics: | 11q12.3 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Metabolic pathways, N-Glycan biosynthesis |
| Gene Summary: | <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 (5) has multiple differences in the coding region but maintains the reading frame, compared to variant 3. The resulting isoform (5) lacks two internal segments, compared to isoform 3.</p> |