

Product datasheet for SC101520

alpha Glucosidase II (GANAB) (AK026567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Glucosidase II (GANAB) (AK026567) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Glucosidase II
Synonyms:	G2AN; GIIA; GLUII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK026567, the custom clone sequence may differ by one or more nucleotides

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GACATTCAAAGCTACCAGAAGCATCATGGTCCCCAGACCCTGTACCTGCCTGTAACCTAAGCAGTATCC
CTGTGTTCCAGCGTGGAGGGACAATCGTGCCTCGATGGATGCGAGTGCGGCGGTCTTCAGAATGTATGAA
GGATGACCCCATCACTCTCTTTGTTGCACTTAGCCCTCAGGGTACAGCTCAAGGAGAGCTCTTTCTGGAT
GATGGGCACACGTTCAACTATCAGACTCGCAAGAGTTCTCTGCTGCGTGCATTCTCATTCTCTGGCAACA
CCCTTGCTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGGTGGTGAT
AATAGGGGCTGAAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAGCCGCTGCCTTC
CAGCATGACCCTGAGACCTCTGTGTTGGTCTGCGCAAGCCTGGCATCAATGTGGCATCTGATTGGAGTA
TTCACCTGCGATAACCCAAGGGATGTTCTGGGTTAGGGGGAGGGAAGGGGAGCATTAGTGCCTGAGAGATA
TTCTTTCTTCTGCCTTGAGTTCGGCCCTCCCCAGACTTCACTTATGCTAGTCTAAGACCCAGATTCTGC
CAACATTTGGGCAGGATGAGAGGGCTGACCCTGGGCTCCAAATTCCTCTTGATCTCCTCACCTCTCCC
ACTCCATTGATACCAACTCTTCCCTTCATTCCCCAACATCCTGTTGCTCTAACTGGAGCACATTCCT
TACGAACACCAGGAAACCACAGGGCCCTGTGCGCCCTTCTCTTCCCTATTTAGGAGCCCTGAACTCC
CCCAGAGTCTATCCATTCATGGCTCTTGATGTTGATGCCACTTCTTGAAGAAGATGAGGGCAATGAGT
TAGGGCTCCTTTCCCTTCCCTCCCACCAGATTGCTCTCCACCTTTCATTTCTCCTCCAGGCTTTAC
TCCCCTTTTATGCCCCACCGATACACTGGGACCACCCCTTACCCCGACAGGATGAATGGATCAAAGGA
GTGAGGTTGCTAAAGAACATCCTTTCCCTCTCATTCTACCTTTTCTCTCCCGATTCTTGTAGAGC
TGCTGCAATTCCTAGAGGGGCAGTTCTACCTCCTCTGTCCCTCGCGAGAAAGACGTTTCCACACCTCTTA
GGGGATGCGCATTAAACTCTTTTGCCCTTCTGTCCCTTTGAGGGGCACTTAAAGTGGAGAAATCA
GTTGTGGTTTCAGTGAATCATGGTCACTGTATTTATTGCTAGGAGAAGCCTGAGGGTGGGGGAGATGA
TCATGTGTGCTCGGGTGGCTGGAAGCCCTGGTGGGGGTTGGGGGAGGACTAATGGGGAGTCGGGGA
ATATTTGGGTATTTTTTTTACTTCTCTTGGTCCCAGCTGTGACACGTTTTGATCAAAGGAGAAACA
ATAAAGGATAAACCATAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK026567 unedited GTCACCATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCCTGGCCAAG GGAGGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCCAGACCCTGTACCT GCCTGTAACCTAAGCAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCCTCGATG GATGCGAGTGGCGGGTCTTCAGAATGTATGAAGGATGACCCCATCACTCTTTTGTTC ACTTAGCCCTCAGGTACAGCTCAAGGAGAGCTTTTCTGGATGATGGGCACACGTTCAA CTATCAGACTCGCCAAGAGTTCCTGCTGCGTTCGATTCTCATTCTCTGGCAACACCCTTGT CTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGTGGT GATAATAGGGGCTGAAAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAAG CCGCTGTCTTCCAGCATGACCCTGAGACCTCTGTGTTGGTCTCGCAAGCCTGGCAT CAATGTGGCATCTGATTGGAGTATTCACCTGCGATAACCAAGGGATGTCTGGGTTTAGG GGAAGGGAAAGGGGAACCATTATTGCTGAGAAAATATCCTTTCTTTCTGCTTGGGAGTTC GGGCTCCCAGACTCCACTTATGCTAGTCTAAGACCCAGATTCTGCCAACATTNTGGCA GGATGAGAGGGCTGACCCTGGGTTCAAATTCCTTGTGATCTCCTCACCTCTTCCACT TCATTGATACCAACTCTTTTCTTTCATTCCCCCACATTCTGTTGCTCTAACTGGAGCAC ATTTACCTTACGAACACCAGAAACCACAGGCCCTTGTGCCCTTCTCTCCCTATTT AGGAGCCTGAACTCCCCAGAGNTATCCATTCTGCTCTTGGTATGTGATGCACTTT
Restriction Sites:	NotI-NotI
ACCN:	AK026567
Insert Size:	1650 bp
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).
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:	AK026567.1
RefSeq Size:	1504 bp
RefSeq ORF:	1504 bp
Locus ID:	23193
Cytogenetics:	11q12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis

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]