

Product datasheet for **MC229198**

Ganab (NM_001293621) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ganab (NM_001293621) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ganab
Synonyms:	AU042638; G2an; Glull; mKIAA0088
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229198 representing NM_001293621
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCAATAGCGGCAGTGGCGGCGCTAGGAGGCGGTCTTGGTTAAGTTTGGTCTGGCATACTTAG
 GGGTCTGTCTGGGATTACACTTGTCTGGATAGAAGCAACTTTAAGACCTGTGATGAGAGTTCTTTTG
 CAAACGGCAGCGAAGCATTTCGGCCAGGCCCTCTCTCCTTACCGTGCCTTGCTGGACTCTGCAGCTTGGT
 CCTGATGCTCTTACAGTCCATCTGATCCATGAAGTCACCAAGGTGCTGCTTGTGCTGGAGCTCCAGGGCC
 TTCAGAAGAACATGACTCGGATCAGGATCGATGAGCTAGAGCCCCGGCGGCTCGATACCGAGTGCCAGA
 TGTTTTAGTGGCTGACCCCCCACAGCTAGGCTTTCAGTCTCTGGCCGTGATGACAACAGTGTGGAGCTA
 ACAGTGGCTGAGGGACCTACAAAATCATTTTGACAGCACAGCCATTCCGCCTTGACCTGCTAGAAGATC
 GAAGCCTCTGCTCAGTGTCAATGCCCGAGGACTTATGGCCTTTGAGCACCAGAGGGCCCCAGGGTCCC
 GCAAGAATCAAAAGACCCAGCTGAAGGCAATGGAGCCCAGCCTGAAGCAACACCTGGGGATGGTGACAAG
 CCAGAGGAGACCCAGGAAAAGGCTGAGAAGGATGAGCCAGGAGCCTGGGAGGAGACATTCAAAACACATT
 CTGACAGCAAGCCTTATGGCCCCAGTCTGTAGGTTTGGACTTTTCTCTGCCAGGAATGGAACATGTGTA
 TGGGATCCCTGAGCATGCTGACAGCCTGAGACTGAAGTCACTGAGGGCGGTGAGCCGTACCGCCTGTAC
 AATTTGGATGTGTCCAGTATGAGCTGAACAACCCATGGCTCTATATGGGTCTGTGCCTGTGCTCCTGG
 CACACAGCTTTCATCGAGACCTGGGCATCTTCTGGCTTAATGCTGCTGAGACTTGGGTTGATATCCTC
 CAACACGGCTGGGAAGACCCTGTTTGGGAAGATGCTTGATTACCTGCAGGGCTCTGGGAGACTCCACAG
 ACAGACATTCGTTGGATGTCAGAGAGTGGCATTATTGATGTTTTCTAATGCTTGGCCCTTCGGTTTTTG
 ATGTCTTTAGGCAGTATGCTAGTCTCACAGGGACCCAGGCATTGCCCCACTCTTCTCCCTCGGCTATCA
 CCAGAGTCGCTGGAACCTACCGGGATGAGGCTGATGTTTTGGAAGTGGATCAGGGTTTTGATGATCAAC
 ATGCCTTGTGATGTCATTTGGTTGGACATTGAACATGCTGATGGCAAGCGGTACTTCACTTGGGACCCCA
 CCCGATTTCTCAGCCCCTCAATATGCTTGAGCACTTGGCTTCCAAGAGGCGGAAGCTGGTGGCCATTGT
 GGACCCCCACATCAAGGTAGACTCTGGCTACCGAGTTCACGAAGAATTGCGAAACCATGGGCTGTATGTT
 AAAACTCGGGATGGCTCTGATTACGAGGGCTGGTCTGGCCAGGCTCAGTAGTTACCCTGACTTCACTA
 ATCCAAGGATGAGGGCTGGTGGTCTAACATGTTACGCTTTGACAATTATGAGGGTTCAGCTCCTAATCT
 TTATGTTTGAATGACATGAATGAACCGTCTGTGTTCAATGGTCCTGAGGTCACCATGTTGAAGGATGCT
 GTGCATTATGGAGGCTGGGAGCACCGGGACATCCATAACATCTATGGCTTATATGTGCATGCGGACTG
 CTGATGGGCTAATACAGCGCTCTGGGGCATAGAGCGTCCCTTTGTCTGAGTAGGGCTTTCTTCTCAGG
 CTCCCAGCGCTTTGGAGCTGTGTGGACAGGGGACAACACTGCCGAATGGGATCATTGGAAGATCTCTATC
 CCTATGTGTCTCAGCCTGGCACTGGTGGGGCTTTCCTTCTGTGGAGCGGATGTGGGTGGCTTCTTCAAGA
 ACCCAGAGCCAGAGCTGCTTGTGCGCTGGTACCAATGGGTGCCTACCAGCCGTTCTTTCGGGCTCATGC
 CCACTTGGACACTGGGCGGCGAGAGCCATGGCTGTAGCGTCTCAATACCAAGATGCAATCCGAGATGCC
 TTGTTCCAGCGATATTCTTTGCTGCCCTTCTGGTATACCTCTTCTATCAAGCTCACAAGGAAGGGTTTC
 CTGTCATGAGGGCCCTCTGGGTACAGTATCCTGAGGATATGCTACCTTCAGTATAGAGGATCAGTTCA
 GCTTGGTATGCACTCCTTATTCACCCTGTATCGGATGCTGGGGCCACGGAGTGCAGTCTATTTGCCT
 GGCCAAGAAGAAGTGTGGTATGACATTCAGAGCTATCAGAAGCATCATGGGCCCCAGACCTTGTATCTGC
 CAGTAACCTTTGAGCAGTATCCCCGTGTTCCAGCGTGGCGGAACATTGTGCCTCGATGGATGCGTGTGAG
 GCGCTCTTCACTGTATGAAGGACGATCCTATCACTCTCTTTGTTGCTCTCAGTCCCCAGGGTACTGCC
 CAAGGAGAGCTCTTCTAGATGATGGACACACCTTAACTATCAGACTCGCCATGAGTTCCTGTTGCGGC
 GGTCTCTTTCTCTGGCAGCACACTGGTCTCTAGTTTACGAGACCCCAAAGGCCACCTTGAGACACCTAT
 TTGGATTGAGCGAGTAGTCATCATGGGGCTGGAAAGCCAGCAGCTGTGGTCTCCAGACCAAAGGATCC
 CCTGAAAGTCGCCTGTCCTTCCAGCATGACCCTGAGACCTCAGTCTGATATTGCGTAAACCTGGTGTCA
 GCGTGGCATCCGACTGGAGTATTCATCTTCGATA**AA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001293621
Insert Size:	2835 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001293621.1</u> , <u>NP_001280550.1</u>
RefSeq Size:	3908 bp
RefSeq ORF:	2835 bp
Locus ID:	14376
UniProt ID:	<u>Q8BHN3</u>
Cytogenetics:	19 A
Gene Summary:	<p>Catalytic subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins (PubMed:27462106). Required for PKD1/Polycystin-1 and PKD2/Polycystin-2 maturation and localization to the cell surface and cilia (PubMed:28375157).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1. The encoded protein (isoform 2) is shorter, compared to isoform 1.</p>