

Product datasheet for **MR231409**

Ganab (NM_001293621) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ganab (NM_001293621) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR231409 representing NM_001293621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCAATAGCGGCAGTGGCGGCGCTAGGAGGCGGTCTTGGTTAAGTTTGGTCTGGCATACTTAG
 GGGTCTGTCTGGGATTACACTTGTCTGGATAGAAGCAACTTTAAGACCTGTGATGAGAGTTCTTTTG
 CAAACGGCAGCGAAGCATTTCGGCCAGGCCCTCTCTCCTTACCGTGCCTTGCTGGACTCTGCAGCTTGGT
 CCTGATGCTCTTACAGTCCATCTGATCCATGAAGTCACCAAGGTGCTGCTTGTGCTGGAGCTCCAGGGCC
 TTCAGAAGAACATGACTCGGATCAGGATCGATGAGCTAGAGCCCCGGCGGCTCGATACCGAGTGCCAGA
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 CCAGAGGAGACCCAGGAAAAGGCTGAGAAGGATGAGCCAGGAGCCTGGGAGGAGACATTCAAAACACATT
 CTGACAGCAAGCCTTATGGCCCCAGTCTGTAGGTTTGGACTTTTCTCTGCCAGGAATGGAACATGTGTA
 TGGGATCCCTGAGCATGCTGACAGCCTGAGACTGAAGTCACTGAGGGCGGTGAGCCGTACCGCCTGTAC
 AATTTGGATGTGTCCAGTATGAGCTGAACAACCCATGGCTCTATATGGGTCTGTGCCTGTGCTCCTGG
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 GCGCTCTTCACTGTATGAAGGACGATCCTATCACTCTCTTTGTTGCTCTCAGTCCCCAGGGTACTGCC
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 GCGTGGCATCCGACTGGAGTATTCATCTTCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231409 representing NM_001293621
 Red=Cloning site Green=Tags(s)

MAAIAVAARRRRSWLSLVLAYLVCLGITLAVDRSNFKTCDESSFCRQRSIRPGLSPYRALDLDLQLG
 PDALTVHLIHEVTKVLLVLELQGLQKNMTRIRIDELEPRRPRYRVPDVLVADPPTARLSVSGRDDNSVEL
 TVAEGPYKIIILTAQPFRLDLEDRSLLLSVNARGLMAFEHQRAPRVPQESKDP AEGNGAQPEATPGDGDK
 PEETQEKAEKDEPGAWREETFKTHSDSKPYGPTSVGLDFSLPGMEHVYGIPEHADSLRLKVTGEGEPYRLY
 NLDVVFQYELNNPMALYGSVPVLLAHSFHRDLGIFWLNAEETWVDISSNTAGKTLFGKMLDYLQGSGETPQ
 TDIRWMSESGIIDVFLMLGSPVFDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHN
 MPCDVIWLDIEHADGKRYFTWDPTRFPQPLNMLEHLASKRRKLVAVDPHIKVDVSGYRVHEELRNHGLYV
 KTRDGSDEYEGWCWPGSASYPDFTNPRMRAWWSNMF SFDNYEGSAPNLVWVNDMNEPSVFNQPEVTMLKDA
 VHYGGWEHRDIHNIYGLVYHMATADGLIQRSGGIERPFLSRAFFSGSQRF GAVWTGDNTAEWDHLKISI
 PMCLSLALVGLSFCGADVGGFFKNPEPELLVRWYQMGAYQPF FRAHAHLDTGRREPWLLASQYQDAIRDA
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 GQEEVWYDIQSYQKHHGPQTLVLPVTLSSIPVFQGGTIVPRWVRVRRSSDCMKDDPITL FVALSPQGT
 QGELFLDDGHTFNYQTRHEFLRRFSFGSTLVSSADPKGHLETP IWIERVVIMGAGKPAAVVLQTKGS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

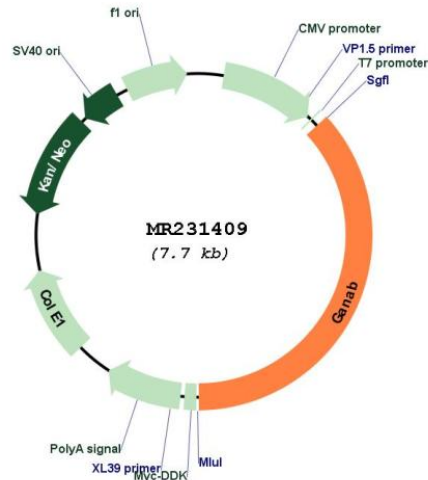
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293621

ORF Size: 2832 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:

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_001293621.1](#), [NP_001280550.1](#)

RefSeq Size: 3908 bp

RefSeq ORF: 2835 bp

Locus ID: 14376

UniProt ID: [Q8BHN3](#)

Cytogenetics: 19 A

MW: 107.4 kDa

Gene Summary: 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]