OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR220524

Ganab (NM_008060) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ganab (NM_008060) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ganab
Synonyms:	AU042638; G2an; GluII; mKIAA0088
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR220524 representing NM_008060
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCAATAGCGGCAGTGGCGGCGCGTAGGAGGCGGTCTTGGTTAAGTTTGGTGCTGGCATACTTAG
GGGTCTGTCTGGGGATTACACTTGCTGTGGATAGAAGCAACTTTAAGACCTGTGATGAGAGTTCCTTTTG
CAAACGGCAGCGAAGCATTCGGCCAGGCCTCTCTCCTTACCGTGCCTTGCTGGACACTCTGCAGCTTGGT
CCTGATGCTCTTACAGTCCATCTGATCCATGAAGTCACCAAGGTGCTGCTTGTGCTGGAGCTCCAGGGCC
TTCAGAAGAACATGACTCGGATCAGGATCGATGAGCTAGAGCCCCGGCGGCCTCGATACCGAGTGCCAGA
TGTTTTAGTGGCTGACCCCCCCACAGCTAGGCTTTCAGTCTCTGGCCGTGATGACAACAGTGTGGAGCTA
ACAGTGGCTGAGGGACCCTACAAAATCATTTTGACAGCACAGCCATTCCGCCTTGACCTGCTAGAAGATC
GAAGCCTCCTGCTCAGTGTCAATGCCCGAGGACTTATGGCCTTTGAGCACCAGAGGGCCCCCAGGGTCCC
TTTCTCGGATAAAGTTAGTCTCGCGCTCGGTAGCGTGTGGGATAAGATCAAGAACCTTTTCTCTAGGCAA
GAATCAAAAGACCCAGCTGAAGGCAATGGAGCCCAGCCTGAAGCAACACCTGGGGATGGTGACAAGCCAG
AGGAGACCCAGGAAAAGGCTGAGAAGGATGAGCCAGGAGCCTGGGAGGAGACATTCAAAACACATTCTGA
CAGCAAGCCTTATGGCCCCACGTCTGTAGGTTTGGACTTTTCTCTGCCAGGAATGGAACATGTGTATGGG
ATCCCTGAGCATGCTGACAGCCTGAGACTGAAGGTCACTGAGGGCGGTGAGCCGTACCGCCTGTACAATT
TGGATGTGTTCCAGTATGAGCTGAACAACCCCATGGCTCTATATGGGTCTGTGCCTGTGCTCCTGGCACA
CAGCTTTCATCGAGACCTGGGCATCTTCTGGCTTAATGCTGCTGAGACTTGGGTTGATATATCCTCCAAC
ACGGCTGGGAAGACCCTGTTTGGGAAGATGCTTGATTACCTGCAGGGCTCTGGGGAGACTCCACAGACAG
ACATTCGTTGGATGTCAGAGAGTGGCATTATTGATGTTTTCCTAATGCTTGGCCCTTCGGTTTTTGATGT
CTTTAGGCAGTATGCTAGTCTCACAGGGACCCAGGCATTGCCCCCACTCTTCTCCCTCGGCTATCACCAG
AGTCGCTGGAACTACCGGGATGAGGCTGATGTTTTGGAAGTGGATCAGGGTTTTGATGATCACAACATGC
CTTGTGATGTCATTTGGTTGGACATTGAACATGCTGATGGCAAGCGGTACTTCACTTGGGACCCCACCCG
ATTTCCTCAGCCCCTCAATATGCTTGAGCACTTGGCTTCCAAGAGGCGGAAGCTGGTGGCCATTGTGGAC
CCCCACATCAAGGTAGACTCTGGCTACCGAGTTCACGAAGAATTGCGAAACCATGGGCTGTATGTTAAAA
CTCGGGATGGCTCTGATTACGAGGGCTGGTGCTGGCCAGGCTCAGCTAGTTACCCTGACTTCACTAATCC
AAGGATGAGGGCCTGGTGGTCTAACATGTTCAGCTTTGACAATTATGAGGGTTCAGCTCCTAATCTTTAT
GTTTGGAATGACATGAATGAACCGTCTGTGTTCAATGGTCCTGAGGTCACCATGTTGAAGGATGCTGTGC
ATTATGGAGGCTGGGAGCACCGGGACATCCATAACATCTATGGCTTATATGTGCACATGGCGACTGCTGA
TGGGCTAATACAGCGCTCTGGGGGCATAGAGCGTCCCTTTGTCCTGAGTAGGGCTTTCTTCTCAGGCTCC
CAGCGCTTTGGAGCTGTGTGGACAGGGGACAACACTGCCGAATGGGATCATTTGAAGATCTCTATCCCTA
TGTGTCTCAGCCTGGCACTGGTGGGGCTTTCCTTCTGTGGAGCGGATGTGGGTGGCTTCTTCAAGAACCC
AGAGCCAGAGCTGCTTGTGCGCTGGTACCAAATGGGTGCCTACCAGCCGTTCTTTCGGGCTCATGCCCAC
TTGGACACTGGGCGGCGAGAGCCATGGCTGTTAGCGTCTCAATACCAAGATGCAATCCGAGATGCCTTGT
TCCAGCGATATTCTTTGCTGCCCTTCTGGTATACCCTCTTCTATCAAGCTCACAAGGAAGGGTTTCCTGT
CATGAGGCCCCTCTGGGTACAGTATCCTGAGGATATGTCTACCTTCAGTATAGAGGATCAGTTCATGCTT
GGTGATGCACTCCTTATTCACCCTGTATCGGATGCTGGGGCCCACGGAGTGCAGGTCTATTTGCCTGGCC
AAGAAGAAGTGTGGTATGACATTCAGAGCTATCAGAAGCATCATGGGCCCCAGACCTTGTATCTGCCAGT
AACTTTGAGCAGTATCCCCGTGTTCCAGCGTGGCGGAACCATTGTGCCTCGATGGATGCGTGTGAGGCGC
TCTTCAGACTGTATGAAGGACGATCCTATCACTCTCTTTGTTGCTCTCAGTCCCCAGGGTACTGCCCAAG
GAGAGCTCTTTCTAGATGATGGACACACCTTTAACTATCAGACTCGCCATGAGTTCCTGTTGCGGCGGTT
CTCTTTCTCTGGCAGCACACTGGTCTCTAGTTCAGCAGACCCCAAAGGCCACCTTGAGACACCTATTTGG
ATTGAGCGAGTAGTCATCATGGGGGCTGGAAAGCCAGCAGCTGTGGTGCTCCAGACCAAAGGATCCCCTG
AAAGTCGCCTGTCCTTCCAGCATGACCCTGAGACCTCAGTGCTGATATTGCGTAAACCTGGTGTCAGCGT
GGCATCCGACTGGAGTATTCATCTTCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220524 representing NM_008060
Red=Cloning site Green=Tags(s)

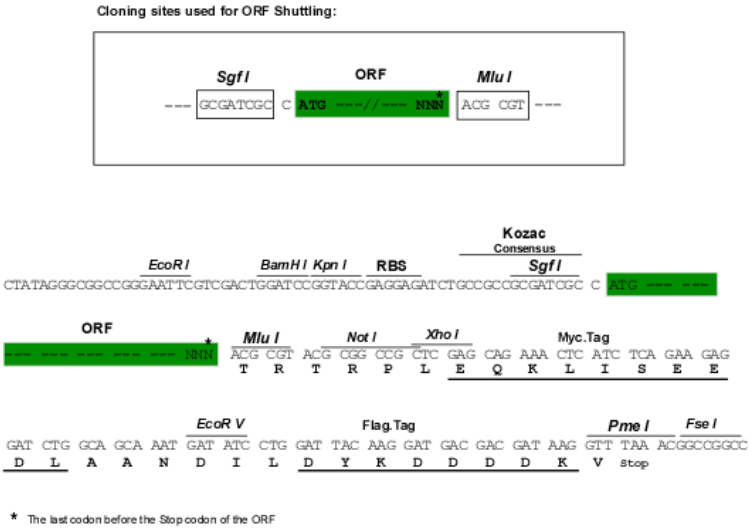
MAAIAAVAARRRRSWLSLVLAYLGVCLGITLAVDRSNFKTCDESSFCKRQRSIRPGLSPYRALLDTLQLG
PDALTVHLIHEVTKVLLVLELQGLQKNMTRIRIDELEPRRPRYRVPDVLVADPPTARLSVSGRDDNSVEL
TVAEGPYKIILTAQPFRLDLLEDRSLLLSVNARGLMAFEHQRAPRVPFSDKVSLALGSVWDKIKNLFSRQ
ESKDPAEGNGAQPEATPGDGDKPEETQEKAEKDEPGAWEETFKTHSDSKPYGPTSVGLDFSLPGMEHVYG
IPEHADSLRLKVTEGGEPYRLYNLDVFQYELNNPMALYGSVPVLLAHSFHRDLGIFWLNAAETWVDISSN
TAGKTLFGKMLDYLQGSGETPQTDIRWMSESGIIDVFLMLGPSVFDVFRQYASLTGTQALPPLFSLGYHQ
SRWNYRDEADVLEVDQGFDDHNMPCDVIWLDIEHADGKRYFTWDPTRFPQPLNMLEHLASKRRKLVAIVD
PHIKVDSGYRVHEELRNHGLYVKTRDGSDYEGWCWPGSASYPDFTNPRMRAWWSNMFSFDNYEGSAPNLY
VWNDMNEPSVFNGPEVTMLKDAVHYGGWEHRDIHNIYGLYVHMATADGLIQRSGGIERPFVLSRAFFSGS
QRFGAVWTGDNTAEWDHLKISIPMCLSLALVGLSFCGADVGGFFKNPEPELLVRWYQMGAYQPFFRAHAH
LDTGRREPWLLASQYQDAIRDALFQRYSLLPFWYTLFYQAHKEGFPVMRPLWVQYPEDMSTFSIEDQFML
GDALLIHPVSDAGAHGVQVYLPGQEEVWYDIQSYQKHHGPQTLYLPVTLSSIPVFQRGGTIVPRWMRVRR
SSDCMKDDPITLFVALSPQGTAQGELFLDDGHTFNYQTRHEFLLRRFSFSGSTLVSSSADPKGHLETPIW
IERVVIMGAGKPAAVVLQTKGSPESRLSFQHDPETSVLILRKPGVSVASDWSIHLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

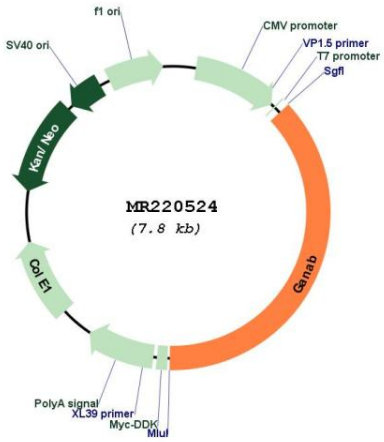


ACCN: NM_008060

ORF Size: 2898 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_008060.2, NP_032086.1
RefSeq Size:	3859 bp
RefSeq ORF:	2901 bp
Locus ID:	14376
UniProt ID:	Q8BHN3
Cytogenetics:	19 A
MW:	109.9 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]

Product images:



Circular map for MR220524