

Product datasheet for **RG219005**

GAB1 (NM_002039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAB1 (NM_002039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAB1
Synonyms:	DFNB26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG219005 representing NM_002039
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGTGGTGAAGTGGTCTGCTCCGGATGGCTCCGCAAGTCCCCCGGAGAAAAAGTTGAAGCGTT
ATGCATGGAAGAGGAGATGGTTCGTGTTACGCAGTGGCCGTTAACTGGAGATCCAGATGTTTTGGAATA
TTACAAAATGATCATGCCAAGAAGCCTATTTCGATTATTGATTTAAATTTATGTCAACAAGTAGATGCT
GGATTGACATTTAACAAAAAGAGTTTAAAAACAGCTACATTTTTGATATCAAACTATTGACCGGATTT
TCTACTGGTAGCAGACAGCGAGGAGAGATGAATAAGTGGGTTTCGTTGATTTGTGACACTGTGGGTT
TAATCCAACAGAAGAAGATCCTGTGAAGCCACCTGGCAGCTCTTTACAAGCACCAGCTGATTTACCTTTA
GCTATAAATACAGCACCACCATCCACCCAGGCAGATTCATCCTCTGCTACTCTACCTCCTCCATATCAGC
TAATCAATGTTCCACCACACCTGAAAACCTTGGCATTTCAGGAGGATCCTCAAGACTACCTGTTGCTCAT
CAACTGTCAAAGCAAGAAGCCCGAACCCACCAGAACGCATGCTGATTCTGCAAAATCCACCTCTTCTGAA
ACAGACTGCAATGATAAGTCCCTTCTCATAAAAATCCTGCTTCTCCAGAGCAAAATGGAATGAATG
GCTTTTTTCAGCAGCAAAATGATATACGACTCTCCACCTTCACGTGCCCATCTGCTTCAGTTGACTCCAG
CCTTTATAACCTGCCAGGAGTTATTCCCATGATGTTTTACCAAAGGTGTCTCCATCAAGTACTGAAGCA
GATGGAGAAGTCTATGTTTTAATACCCCATCTGGGACATCGAGTGTAGAGACTCAAATGAGGCATGAT
CTATTAGTTATGACATTCCTCCAACACCTGGTAATACTTATCAGATTCACGAACATTTCCAGAAGGAAC
CTTGGGACAGACATCAAAGCTAGACACTATTCCAGATATTCCTCCACCTCGGCCACCGAAACCACATCCA
GCTCATGACCGATCTCCTGTGGAACGTGTAGTATCCACGCACCGCCTCAGACACTGACAGTAGTTACT
GTATCCCTACAGCAGGGATGTCGCCTTCACGTAGTAATACCATTTCCACTGTGGATTTAAACAAATTGCG
AAAAGATGCTAGTTCTCAAGACTGCTATGATATTCACGAGCATTTCCAAGTGATAGATCTAGTTCACTT
GAAGGCTTCCATAAACACTTTAAAGTCAAAAATGTGTTGACAGTGGGAAGTGTTCAGTGAAGAAGTGG
ATGAAAATTACGTCCCAATGAATCCCAATTCACCACCAGACAACATTCCAGCAGTTTTACAGAACCAAT
TCAGGAAGCAAATATGTGCCAATGACTCCAGGAACATTTGATTTTTCTCATTGGAAATGCAAGTTCTCT
CCTCTGCTCATATGGGCTTCAGGTCCAGCCAAAAACCCCTCCAGAAGGCCAGTTCTGTTGCAGACT
GTGAACCACCCCGTGGATAGGAACCTCAAGCCAGACAGAAAAGTCAAGCCAGCGCCTTTAGAAAATAAA
ACCTTTGCCAGAATGGGAAGAATTACAAGCCCCAGTTAGATCTCCCATCACTAGGAGTTTTGCTCGAGAC
TCTTCCAGTTTTCCCATGTCCCCCGACCAGATTCAGTGCATAGCACAACCTCAAGCAGTACTCACACG
ACAGTGAAGAGAATTATGTTCCCATGAACCCAAACCTGTCCAGTGAAGACCCAAATCTCTTTGGCAGTAA
CAGTCTTGATGGAGGAAGCAGCCATGATCAAGCCAAAGGAGACAAACAGGTGGAATACTTAGATCTC
GACTTAGATTCTGGGAAATCCACACCACCAGTAAAGCAAAAGAGCAGTGGCTCAGGCAGCAGTGTAGCAG
ATGAGAGAGTGGATTATGTTGTTGTTGACCAACAGAAGACCTTGGCTCTAAAGAGTACCCGGGAAGCCTG
GACAGATGGGAGACAGTCCACAGAATCAGAAACGCCAGCGAAGAGTGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219005 representing NM_002039
 Red=Cloning site Green=Tags(s)

```

MSGGEVVCSGWLRKSPPEKCLKRYAWKRRWFLVRSGLTGDPDVLEYKNDHAKKPIRIIDLNLCCQQVDA
GLTFNKKEFENSYIFDINTIDRIFYLVDSEEMNKWVRCICDICGFNPTEEDPVKPPGSSLQAPADLPL
AINTAPPSTQADSSSATLPPPYQLINVPPhLETlGIQEDPQDYLLLINCQSKKPEPTRTHADSAKSTSSE
TDCNDNVPSHKNPASSQSKHGmNGFFQQQMIYDSPPSRAPSASVDSSLYNLPRSYSHDVLKVPSPSSTEa
DGELYVFNTPSGTSSVETQMRHVSISYDIPPTPGNTYQIPRTFFEGTLGQTSKLDLTDIPPPRPPKPhP
AHDRSPVETCSIPRTASDtdSSyCIPTAGMSPSRsNTISTVDLNLKRkdASSQDCYDIPRAFPSDRSSSL
EGFHNHFkVKNVlTVGSVSSEELDENYVPMNPNSPPRQHSSSFTEPIQEANYVPMTPGTDFDFSSFGMQVP
PPAHMGRSSPKTPRRPVVADCEPPPVDRLNkPDRKVKPAPLEIKPLPEWEElQAPVRSPItrSFARD
SSRFPMSPRDSVHSTtSSSDSHDSEENYVPMNPnLSSedPNlFGNSLDGGSSPMIKPKGDKQVEYlDL
DLDSGkSTPPRkQKSSGSGSSVADERVDYVVVDQqKTLALkSTREAWTDGRQStESETPAKSVK
  
```

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_002039

ORF Size: 2082 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_002039.4](#)

RefSeq Size: 3323 bp

RefSeq ORF: 2085 bp

Locus ID: 2549

UniProt ID: [Q13480](#)

Cytogenetics: 4q31.21

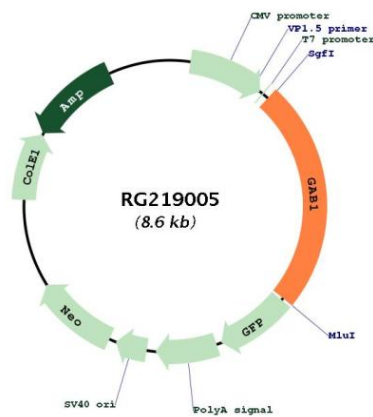
Domains: PH

Protein Families: Druggable Genome

Protein Pathways: ErbB signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma

Gene Summary: The protein encoded by this gene is a member of the IRS1-like multisubstrate docking protein family. It is an important mediator of branching tubulogenesis and plays a central role in cellular growth response, transformation and apoptosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG219005