

Product datasheet for **RG209622**

GAB1 (NM_207123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAB1 (NM_207123) 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)



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ORF Nucleotide
Sequence:

>RG209622 representing NM_207123
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGTGGTGAAGTGGTCTGCTCCGGATGGCTCCGCAAGTCCCCCGGAGAAAAAGTTGAAGCGTT
ATGCATGGAAGAGGAGATGGTTCGTGTTACGCAGTGGCCGTTAACTGGAGATCCAGATGTTTTGGAATA
TTACAAAAATGATCATGCCAAGAAGCCTATTTCGATTATTGATTTAAATTTATGTCAACAAGTAGATGCT
GGATTGACATTTAACAAAAAGAGTTTAAAAACAGCTACATTTTTGATATCAAACTATTGACCGGATTT
TCTACTGGTAGCAGACAGCGAGGAGAGATGAATAAGTGGGTTTCGTTGATTTGTGACACTCTGTGGTT
TAATCCAACAGAAGAAGATCCTGTGAAGCCACCTGGCAGCTCTTACAAGCACCAGCTGATTTACCTTTA
GCTATAAATACAGCACCACCATCCACCCAGGCAGATTCATCCTCTGCTACTCTACCTCCTCCATATCAGC
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CAACTGTCAAAGCAAGAAGCCCGAACCCACCAGAACGCATGCTGATTCTGCAAAATCCACCTCTTCTGAA
ACAGACTGCAATGATAAGTCCCTTCTCATAAAAAATCCTGCTTCTCCAGAGCAAAACATGGAATGAATG
GCTTTTTTCAGCAGCAAATGATATACGACTCTCCACCTTACGTCGCCCATCTGCTTCAGTTGACTCCAG
CCTTTATAACCTGCCAGGAGTTATCCCATGATGTTTTACCAAAGGTGTCTCCATCAAGTACTGAAGCA
GATGGAGAACTCTATGTTTTAATACCCCATCTGGGACATCGAGTGTAGAGACTCAAATGAGGCATGAT
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GCTCATGACCGATCTCCTGTGAAACGTGTAGTATCCACGCACCGCCTCAGACACTGACAGTAGTTACT
GTATCCCTACAGCAGGGATGTCGCCTTACGTAATACCATTCCACTGTGGATTTAAACAAATTTGCG
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GTGAACCACCCCGTGGATAGGAACCTCAAGCCAGACAGAAAAGGTCAAAGTCTAAAATTTTAAGACT
CAAACCCCATGGTTTAGAGCGAAGTATTACAAAACCATAGGTGACTTTGCTACAAGAAGAAAGGTCAAG
CCAGCGCCTTTAGAAATAAACCTTTGCCAGAATGGGAAGAATTACAAGCCCGAGTTAGATCTCCCATCA
CTAGGAGTTTTGCTCGAGACTCTCCAGGTTTCCCATGTCCCCCGACCAGATTCAGTGCATAGCACAAC
TTCAAGCAGTGAAGTACACGACAGTGAAGAGAATTATGTTCCCATGAACCCAAACCTGTCCAGTGAAGAC
CCAAATCTCTTTGGCAGTAAACAGTCTTGATGGAGGAAGCAGCCCTATGATCAAGCCCAAAGGAGACAAAAC
AGGTGGAATACTTAGATCTCGACTTAGATTCTGGGAAATCCACACCACCGTAAGCAAAAAGAGCAGTGG
CTCAGGCAGCAGTGTAGCAGATGAGAGAGTGGATTATGTTGTTGTTGACCAACAGAAGACCTTGGCTCTA
AAGAGTACCCGGGAAGCCTGGACAGATGGGAGACAGTCCACAGAATCAGAAACGCCAGCGAAGAGTGTGA
AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209622 representing NM_207123
 Red=Cloning site Green=Tags(s)

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MSGGEVVCSGWLRKSPPEKCLKRYAWKRRWVLRSGRLTGDPDVLEYKNDHAKKPIRIIDLNLCCQQVDA
GLTFNKKEFENSYIFDINTIDRIFYLVDSEEMNKWVRCICDICGFNPTEEDPVKPPGSSLQAPADLPL
AINTAPPSTQADSSATLPPPYQLINVPPhLETlGIQEDPQDYLLLINCQSKKPEPTRHADSakSTSSE
TDCNDNVPSHKNPASSQSKHGmNGFFQQQMIYDSPPSRAPSASVDSSLYNLPRSYSHDVLKvSPSSTEA
DGELYVFNTPSGTSSVETQMRHVSISYDIPPTPGNTYQIPRTFFEGTLGQTSKLDTIPDIPPPRPPKPHP
AHDRSPVETCSIPRTASDTDSSYCIPTAGMSPSRsNTISTVDLNLKLRKdASSQDCYDIPRAFPSDRSSSL
EGFHNHFVKNVLTvGSVSSEELDENYVPMNPNsPPRQHSSSFTEPIQEANYVPMTPGTDFDfSSFGMQVP
PPAHMGRfSSPKTPRRPVVADCEPPPvDRNLKpDRKGQSPKILRLKPHGLERTDSQTIGDFATRrKVK
PAPLEIKPLPEWEElQAPVRSPITRSFARDSSRFPMSPRPDSVHSTTSSSDSHDSEENYVPMNPNLSSed
PNLFGSNsLDGGSSPMIKPKGDKQVEYLDLDLDSGKSTPPRKQKSSGSGSSVADERVDYVVVDQqKTLAL
KSTREAWTDGRQSTeSETPAKSVK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207123

ORF Size: 2172 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_207123.3](#)

RefSeq Size: 3413 bp

RefSeq ORF: 2175 bp

Locus ID: 2549

UniProt ID: [Q13480](#)

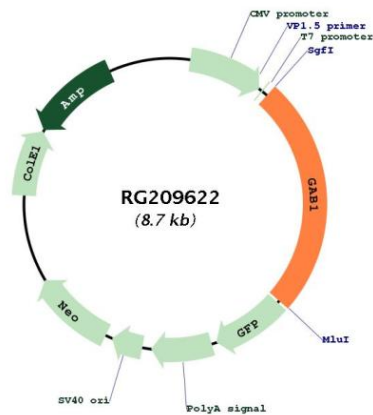
Cytogenetics: 4q31.21

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 RG209622