

Product datasheet for **SC118863**

GAB1 (NM_002039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAB1 (NM_002039) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAB1
Synonyms:	DFNB26
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118863 sequence for NM_002039 edited (data generated by NextGen Sequencing)

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ATGAGCGGTGGTGAAGTGGTCTGCTCCGGATGGCTCCGCAAGTCCCCCGGAGAAAAAG
TTGAAGCGTTATGCATGGAAGAGGAGATGGTTCGTGTTACGCAGTGGCCGTTAACTGGA
GATCCAGATGTTTTGGAATATTACAAAAATGATCATGCCAAGAAGCCTATTTCGTATTATT
GATTTAAATTTATGTCAACAAGTAGATGCTGGATTGACATTTAACAAAAAAGAGTTTGAA
AACAGCTACATTTTTGATATCAACACTATTGACCGGATTTTCTACTTGGTAGCAGACAGC
GAGGAGGAGATGAATAAGTGGGTTTCGTTGTATTTGTGACATCTGTGGGTTAATCCAACA
GAAGAAGATCCTGTGAAGCCACCTGGCAGCTCTTTACAAGCACCAGCTGATTTACCTTTA
GCTATAAATACAGCACCACCATCCACCCAGGCAGATTTCCTCTGCTACTCTACCTCCT
CCATATCAGCTAATCAATGTTCCACCACACCTGGAACTCTTGGCATTACAGGAGGATCCT
CAAGACTACCTGTTGCTCATCAACTGTCAAAGCAAGAAGCCGAACCCACCAGAACGCAT
GCTGATTTGCAAAATCCACCTCTTCTGAAACAGACTGCAATGATAACGTCCCTTCTCAT
AAAAATCTGCTTCTCCAGAGCAAACATGGAATGAATGGCTTTTTTTCAGCAGCAAATG
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CTGCCCAGGAGTTATCCCATGATGTTTTACCAAAGGTGTCTCCATCAAGTACTGAAGCA
GATGGAGAAGTCTATGTTTTAATACCCCATCTGGGACATCGAGTGTAGAGACTCAAATG
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CGAACATTTCCAGAAGGAACCTTGGGACAGACATCAAAGCTAGACACTATTCCAGATATT
CCTCCACCTCGGCCACCGAAACCATCCAGCTCATGACCGATCTCCTGTGGAACGTGT
AGTATCCCACGCACCGCCTCAGACACTGACAGTAGTTACTGTATCCCTACAGCAGGGATG
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TCTTCCAGGTTTCCCATGTCCCCCGACCAGATTCAAGTGCATAGCACAACCTCAAGCAGT
GACTCACACGACAGTGAAGAGAATTATGTTCCCATGAACCCAAACCTGTCCAGTGAAGAC
CCAAATCTCTTTGGCAGTAAACAGTCTTGATGGAGGAAGCAGCCCTATGATCAAGCCAAA
GGAGACAAACAGGTGGAATACTTAGATCTCGACTTAGATTCTGGGAAATCCACACCACCA
CGTAAGCAAAAAGAGCAGTGGCTCAGGCAGCAGTGTAGCAGATGAGAGAGTGGATTATGTT
GTTGTTGACCAACAGAAGACCTTGGCTCTAAAGAGTACCCGGGAAGCCTGGACAGATGGG
AGACAGTCCACAGAATCAGAAACGCCAGCGAAGAGTGTGAAATGA

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Clone variation with respect to NM_002039.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002039 unedited
 TTCGCATTATGTAATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGCTGAGTC
 CGAGCGCTGTGAGGCAGCTGGCGAGACGGCACGTCTGGAGGCGAGGCGGGCGCACTGAA
 AGGAGGCCGGCGCCCGCGGCCCGGCTCGCGTTCTGTTCAGGTTCTGGGGCTGCAGA
 GGAGAGACTCGAACTCGTGAACCCGCGCACCGTGGAGTCTGTCCGCCAGTCCGTCCGG
 GGTGCGGACCAAGAGAGCTAGGTTCTGCCACTGCGCGCTCGGCAGGCGTCGGCTGTGT
 CGGGAGCGGCCCGCCCTCAGCTGCCCGGCCGAGCCCGAGACGCGCGCACCATG
 AGCGGTGGTGAAGTGGTCTGCTCCGGATGGCTCCGCAAGTCCCCCGGAGAAAAAGTTG
 AAGCGTTATGCATGGAAGAGGAGATGGTTCGTGTACGCAGTGGCCGTTTAACTGGAGAT
 CCAGATGTTTTGGAATATTACAAAAATGATCATGCCAAGAAGCCTATTCGTATTATTGAT
 TTAATTTATGTCAACAAGTAGATGCTGGATTGACATTTAACAAAAAGAGTTTAAAAAC
 AGCTACATTTTTGATATCAACACTATTGACCGATTTTCTACTTGGTAGCAGACAGCGAG
 GAGGAGATGAATAAGTGGTTCGTGTATTTGTGACATCTGTGGGTTTAAATCCAACAGAA
 GAAGATCTGTGAAGCCACCTGGCAGCTCTTACAGCACCAGCTGAATTACCTTTAGCTT
 AAATACAGCACCACCATCCACCAGCAGATTCATNCTCTGCTACTCTACCTNCTTCATA
 TTAGCTAATCAATGGTCCACCACCTGGAACCTTTGGCATTCCAGGAGATCCTCAAGA
 CTACCTGNTGCTCATTAAGTGGNAAAGCAGAAGCCCGGACCCCGAGGACGCATGTGGAT
 CTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002039 unedited
 CCCCATGGAATGGCACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGNATGCC
 ACCCGGGATCTGTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTT
 TT
 CAGGTTAAAATGCTTTTATGA
 AGGAAAATATAACCCCATTAATTAATATAAAAAAGTCCAGCAAAATTTATGACCTTA
 ATGTACAAGTAAAGTAGTTTTTCTATATCAAAATTAATTTAGCCTATGATTAATACAAG
 GCTTTTTATCCCCCCTTCCGGACCCCTCATAGTACCTTTAGGGAATCTCTAAAAGG
 CTCACAGTACCTTATATAGTATTGATAAGGAAAAAATGTATAAACTGAAGGGTAAATTT
 AAAAAATCTTTTACATCTTAATAATGATATCTCCAGGGGTTAAACAGCTTTTTCAAGT
 TTGAATTTTAATTTTTGAAAGCAAACTGGGCTTCAGTATTCAAACCTTCATAAAATCTT
 ACATTTTTTCAAATAAGGAATTAAGGTAATAAACTCTAATGGGAAAAAAGATTTCCAA
 TCTCCAAAATCATAACTGTCACATCGTTAACCCAGGGTTTTTAGCCATTCTGGCCAAA
 GTCTAGCTTCTTGAGGTGAGTTAAAAGGTTTGATTCAAATTTAGTTTTTATACGTGCA
 TATTTAAAAACCTAATAAACCCACATTCTGATGTGTAACATACCTACTTTACCAACTG
 GAGACTGCTTATTTAATACTCCCTACCAGGATAACTTTATTTGGGATAGACCCTGAA
 AAATTTAGCTATCTCCAAATTAAGAATTTCTGGAATGGATGGTTAAAACCCATTAAT
 TTTCCCAACATTG

Restriction Sites:

NotI-NotI

ACCN:

NM_002039

Insert Size:

4700 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).

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_002039.2</u> , <u>NP_002030.2</u>
RefSeq Size:	3323 bp
RefSeq ORF:	2085 bp
Locus ID:	2549
UniProt ID:	<u>Q13480</u>
Cytogenetics:	4q31.21
Domains:	PH
Protein Families:	Druggable Genome
Protein Pathways:	ErbB signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame coding exon compared to variant 1, resulting in a shorter isoform (b) with the same N- and C-termini, but missing a 30 aa protein segment compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>