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Product datasheet for RC219005

GAB1 (NM_002039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAB1 (NM_002039) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAB1
Synonyms:	DFNB26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC219005 representing NM_002039
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGTGGTGAAGTGGTCTGCTCCGGATGGCTCCGCAAGTCCCCCCCGGAGAAAAAGTTGAAGCGTT
ATGCATGGAAGAGGAGATGGTTCGTGTTACGCAGTGGCCGTTTAACTGGAGATCCAGATGTTTTGGAATA
TTACAAAAATGATCATGCCAAGAAGCCTATTCGTATTATTGATTTAAATTTATGTCAACAAGTAGATGCT
GGATTGACATTTAACAAAAAAGAGTTTGAAAACAGCTACATTTTTGATATCAACACTATTGACCGGATTT
TCTACTTGGTAGCAGACAGCGAGGAGGAGATGAATAAGTGGGTTCGTTGTATTTGTGACATCTGTGGGTT
TAATCCAACAGAAGAAGATCCTGTGAAGCCACCTGGCAGCTCTTTACAAGCACCAGCTGATTTACCTTTA
GCTATAAATACAGCACCACCATCCACCCAGGCAGATTCATCCTCTGCTACTCTACCTCCTCCATATCAGC
TAATCAATGTTCCACCACACCTGGAAACTCTTGGCATTCAGGAGGATCCTCAAGACTACCTGTTGCTCAT
CAACTGTCAAAGCAAGAAGCCCGAACCCACCAGAACGCATGCTGATTCTGCAAAATCCACCTCTTCTGAA
ACAGACTGCAATGATAACGTCCCTTCTCATAAAAATCCTGCTTCCTCCCAGAGCAAACATGGAATGAATG
GCTTTTTTCAGCAGCAAATGATATACGACTCTCCACCTTCACGTGCCCCATCTGCTTCAGTTGACTCCAG
CCTTTATAACCTGCCCAGGAGTTATTCCCATGATGTTTTACCAAAGGTGTCTCCATCAAGTACTGAAGCA
GATGGAGAACTCTATGTTTTTAATACCCCATCTGGGACATCGAGTGTAGAGACTCAAATGAGGCATGTAT
CTATTAGTTATGACATTCCTCCAACACCTGGTAATACTTATCAGATTCCACGAACATTTCCAGAAGGAAC
CTTGGGACAGACATCAAAGCTAGACACTATTCCAGATATTCCTCCACCTCGGCCACCGAAACCACATCCA
GCTCATGACCGATCTCCTGTGGAAACGTGTAGTATCCCACGCACCGCCTCAGACACTGACAGTAGTTACT
GTATCCCTACAGCAGGGATGTCGCCTTCACGTAGTAATACCATTTCCACTGTGGATTTAAACAAATTGCG
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CCTCCTGCTCATATGGGCTTCAGGTCCAGCCCAAAAACCCCTCCCAGAAGGCCAGTTCCTGTTGCAGACT
GTGAACCACCCCCCGTGGATAGGAACCTCAAGCCAGACAGAAAAGTCAAGCCAGCGCCTTTAGAAATAAA
ACCTTTGCCAGAATGGGAAGAATTACAAGCCCCAGTTAGATCTCCCATCACTAGGAGTTTTGCTCGAGAC
TCTTCCAGGTTTCCCATGTCCCCCCGACCAGATTCAGTGCATAGCACAACTTCAAGCAGTGACTCACACG
ACAGTGAAGAGAATTATGTTCCCATGAACCCAAACCTGTCCAGTGAAGACCCAAATCTCTTTGGCAGTAA
CAGTCTTGATGGAGGAAGCAGCCCTATGATCAAGCCCAAAGGAGACAAACAGGTGGAATACTTAGATCTC
GACTTAGATTCTGGGAAATCCACACCACCACGTAAGCAAAAGAGCAGTGGCTCAGGCAGCAGTGTAGCAG
ATGAGAGAGTGGATTATGTTGTTGTTGACCAACAGAAGACCTTGGCTCTAAAGAGTACCCGGGAAGCCTG
GACAGATGGGAGACAGTCCACAGAATCAGAAACGCCAGCGAAGAGTGTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219005 representing NM_002039
Red=Cloning site Green=Tags(s)

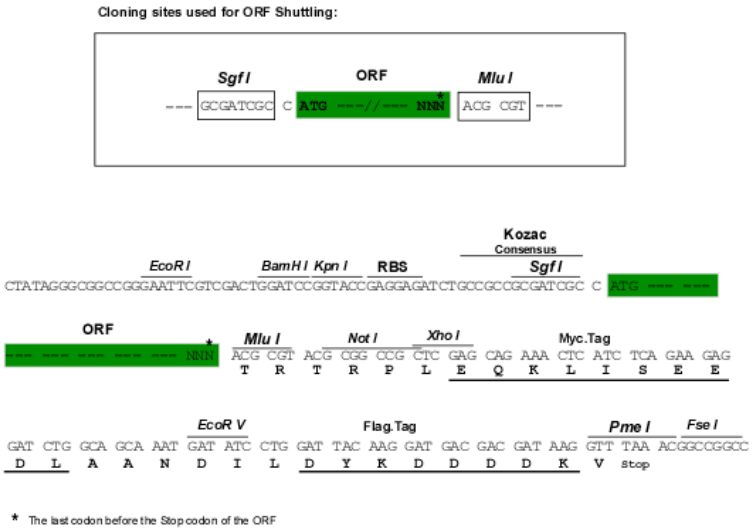
MSGGEVVCSGWLRKSPPEKKLKRYAWKRRWFVLRSGRLTGDPDVLEYYKNDHAKKPIRIIDLNLCQQVDA
GLTFNKKEFENSYIFDINTIDRIFYLVADSEEEMNKWVRCICDICGFNPTEEDPVKPPGSSLQAPADLPL
AINTAPPSTQADSSSATLPPPYQLINVPPHLETLGIQEDPQDYLLLINCQSKKPEPTRTHADSAKSTSSE
TDCNDNVPSHKNPASSQSKHGMNGFFQQQMIYDSPPSRAPSASVDSSLYNLPRSYSHDVLPKVSPSSTEA
DGELYVFNTPSGTSSVETQMRHVSISYDIPPTPGNTYQIPRTFPEGTLGQTSKLDTIPDIPPPRPPKPHP
AHDRSPVETCSIPRTASDTDSSYCIPTAGMSPSRSNTISTVDLNKLRKDASSQDCYDIPRAFPSDRSSSL
EGFHNHFKVKNVLTVGSVSSEELDENYVPMNPNSPPRQHSSSFTEPIQEANYVPMTPGTFDFSSFGMQVP
PPAHMGFRSSPKTPPRRPVPVADCEPPPVDRNLKPDRKVKPAPLEIKPLPEWEELQAPVRSPITRSFARD
SSRFPMSPRPDSVHSTTSSSDSHDSEENYVPMNPNLSSEDPNLFGSNSLDGGSSPMIKPKGDKQVEYLDL
DLDSGKSTPPRKQKSSGSGSSVADERVDYVVVDQQKTLALKSTREAWTDGRQSTESETPAKSVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6048_e08.zip

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.

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	76.4 kDa
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]

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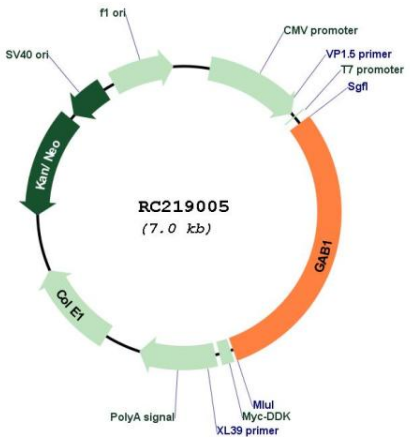
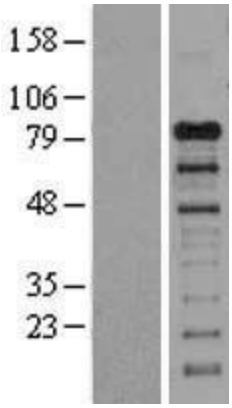
Product images:



Circular map for RC219005



Western blot validation of overexpression lysate (Cat# [LY400746]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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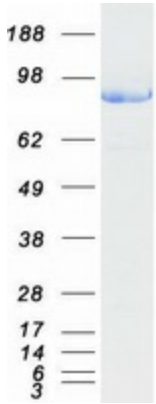

Coomassie blue staining of purified GAB1 protein (Cat# [TP319005]). The protein was produced from HEK293T cells transfected with GAB1 cDNA clone (Cat# RC219005) using MegaTran 2.0 (Cat# [TT210002]).

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