

Product datasheet for **MR210089**

Gab1 (NM_021356) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gab1 (NM_021356) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gab1
Synonyms:	AA408973; AW107238
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210089 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGGCGCGAAGTGGTTTGTCTCGGGATGGCTCCGCAAGTCGCCCCGGAGAAGAAGTTGAAGCGTT
ATGCGTGAAGAGAAGGTGGTTTGTGTTGCGCAGTGGCCGTTTACTGGAGACCCGGATGTCCTGGAGTA
TTACAAAAACGATCATGCCAAGAAGCCTATTTCGGATTATTGATTTAAATTTATGTCAGCAAGTTGATGCT
GGTGTGACATTCAACAAAAAGGAGTTTAAAAACAGCTATATCTTTGATATCAACACCATCGACCGGATTT
TCTACTTGGTGGCAGATAGTGAGGAAGACATGAACAAGTGGTCCGTTGTATCTGTGACATCTGTGGATT
CAATCCCACAGAAGAAGATCCTGTGAAGCCGTGACTGGCTCCTCACAAGCACCCGTCGATTCACCTTTC
GCTATAAGTACAGCACCAGCCTCCAGTCAGATGGAAGCTTCTTCAGTCGCGCTACCTCCTCCTTACCAGG
TCATCAGCCTTCCGCCACACCCAGACACCCTCGGCCTCCAGGACGATCCACAAGACTACCTTTGCTGAT
CAACTGTCAAAGCAAGAAGCCTGAACCTAACAGAACCTCTTTGACTCTGCCAAGCCACCTTTTCTGAG
ACAGACTGCAATGACAAGTCCCTTCCCACCAGACTCCTGCTTCTCCCAGAGCAAAACACGGAATGAATG
GCTTTTTCCAGCAACAAATGATGTATGACTGCCACCCGTCGCCGGTGCATCTGTCTCGGGAGAGTCCAG
CCTCTATAACCTGCCCAGGAGCTATTCCCATGACGTGTTGCCAAAGGAATCCCCATCAAGCACGGAGGCC
GACGGGGAGCTGTACACCTTTAACACCCCATCTGGGACTGCAGGTGTAGAAAACGCAGATGAGACATGTAT
CCATCAGTTACGACATTCGCCAACACCTGGCAACACTTACCAGATCCCACGGACATTTCCAGAAAGCAC
ACTGGGACAGTCATCAAAGCTGGACACCATTCTGATATCCCCCACCTCGGCCACAAAGCCACATCCA
ACTCATGACCGGTCTCCTGTGAAACGTGTGGAGTCCCACGCACGGCCTCGGACACTGACAGCAGTTACT
GTATCCCTCCTCCAGCAGCATGACGCCCTCCCGGAGTAATACCATTTCCACCGTGGATTTGAACAAGTT
GCGGAAAGATGCTAGTTCTCAAGATTGCTATGATATTCCACGGACCTTTCCGAGCGATAGATCTAGTTCC
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CCTCCTCTGCTCATATGGGCTTCAGGTCCAGCCAAAGACCCCTCCCAGGAGGCCAGTTCTGTGCTG
ACTGTGAACCACCCCGGTGGATAGGAACCTCAAGCCAGACAGAAAAGTCAAGCCGGCACCTTTAGACAT
AAAACCTCTGTCAGAATGGGAAGAGCTGAAGCCCCAGTCAGATCTCCATCACCAGGAGCTTCGCTCGG
GACTCCTCTAGGTTTCCCATGTCCCTCGGCCTGATTCTGTGCACAGTACGACATCGAGCAGCGACTCTC
ATGACAGTGAAGAGAATATGTCCCATGAATCCAAATCTGTCTGGCGAAGACCCGAATCTCTTTGCCAG
CAACAGCCTTGATGGGGGAAGCAGCCCGATGAATAAACCCAAAGGAGACAAACAAGTCAATAACCTGGAT
TTAGACCTAGATTCTGGGAAGTCCACGCCACCAGGAAGCAAAAGAGCAGTGGTTCTGGCAGCAGCATGG
CAGACGAGAGGGTGGATTACGTTGTGGTGGACCAACAGAAGACTCTGGCCCTGAAGAGTACCAGAGAAGC
TTGGACGGATGGGAGGCAGTCCACAGAGTCCGAGACACCCACCAAGAATGTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210089 protein sequence
Red=Cloning site Green=Tags(s)

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MSGGEVVCSGWLRKSPPEKCLKRYAWKRRWFLVRSGLTGDPDVLEYKNDHAKKPIRIIDLNLCCQQVDA
GLTFNKKEFENSYIFDINTIDRIFYLVDSEEDMNKWVRCICDICGFNPTEEDPVKPLTGSSQAPVDSPF
AISTAPASSQMEASSVALPPPYQVISLPPHPDTLGLQDDPQDYLLLLINCQSKKPEPNRTLFDSAKPTFSE
TDCNDNVPSHQTPASSQSKHGMNGFFQQQMMYDCPPSRLTSVSGESSLYNLRPSYSHDVLKPESPSSTE
DGELYTFNTPSGTAGVETQMRHVSISYDIPPTPGNTYQIPRTFFESTLQSSKLDLIPDIPPPRPPKPHP
THDRSPVETCGVPRTASDTSYCIPPPAGMTPSRNTISTVDLNKLRKDASSQDCYDIPRTFSPDRSS
LEGFHSQYKIKSVLTAGGVSGEELDENYVPMNPSPRQHSFSFTEPIQEPNYVPMPTGTFDFSSFGMQV
PPPAHMGFRSSPKTPRRPVVADCEPPPVDRLKPKDRKVKPAPLDIKPLSEWEEQAPVRSPITRSFAR
DSSRFPMSPRDSVHSTSSSDSHDSEENYVPMNPNSLGEDPNLFA NSLDGGSSPMNPKPKGDKQVEYLD
LDLDSGKSTPPRKQKSSGSGSSMADERVDYVVVDQKTLALKSTREAWTDGRQSTSETPTKNVK
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_021356

ORF Size: 2088 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_021356.2](#), [NP_067331.2](#)

RefSeq Size: 4877 bp

RefSeq ORF: 2088 bp

Locus ID: 14388

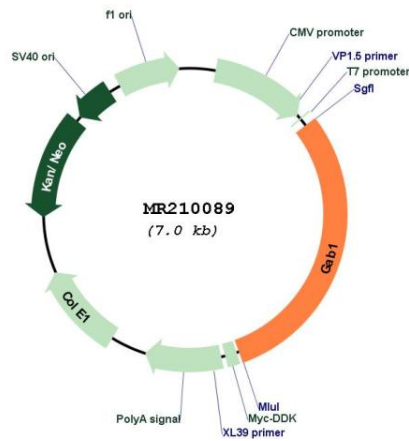
UniProt ID: [Q9QYY0](#)

Cytogenetics: 8 C2

MW: 76.8 kDa

Gene Summary: Adapter protein that plays a role in intracellular signaling cascades triggered by activated receptor-type kinases. Plays a role in FGFR1 signaling. Probably involved in signaling by the epidermal growth factor receptor (EGFR) and the insulin receptor (INSR). Involved in the MET/HGF-signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210089