

Product datasheet for **MR218968**

Gigyf2 (NM_146112) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Gigyf2
Synonyms:	2610016F01Rik; A830080H02Rik; A1852361; AW259676; BC006835; mKIAA0642; Tnrc15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR218968 representing NM_146112
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAGCAGAAACACAGACACTAACTTTGGGCTGAATGGCTCCGTGCTCTGTCCAGTGGTGGGAGTA
TCACGTCCCCTCCTCTTCTCCGGCCCTGCCAAAGTATAAATTAGCAGATTATCGATATGGCCGAGAAGA
AATGTTAGCACTTTTCTTAAAGACTACAAGATACCCCTTGATCTTCTGGAGAAAGAATTCTGCCTATC
CTACAGGAGGAGCCCTTGCCACCATGGCTCTAGTACCCTTTACAGAAGAAGAGCAGAGAACTTTTCCA
TGCTGTAAATAGTGCCGCTGCTCTGCGATTGACAGGACGAGGAGGAGGAGGAACAGTGGTGGGGGC
TCCTAGAGGTGCAAGTTCTTCAAGAGGGCGAGGCAGAGGTAGAGGTGAATGTGGTTTCTACCAAAGAAGT
TTTGATGAAGTAGAGGTGTGTTTGGGCGAGGAGGTGGCAGGAAATGCATAGATCACAGAGCTGGGAAG
AAAGGGGTGACAGGCGCTTTGAAAAACAGGAAGAAAGATGTAGGGAGACCAATTTTGGGAAAGTGG
ACCAACGTCTGTGGGGAGAAAGCATGAATTTATACGGTCAGAAAGTGAAACTGGCGAATCTTTAGAGAG
GAACAGAATGGAGAAGATGAAGATGGAGGTTGGCGGTTAGCTGGATCAAGAAGGGATGGAGAGAGATGGC
GGCCTCACAGTCTGATGGCCCTCGTTCTACAGGCTGGCGGAACACATGGAACGCCGTCGGAGGTTTGA
GTTTGATTTTCGAGACCGAGATGATGAGCGTGGTTACCGAAGGGTGGCTCTGGCAGTGGGAGCATAGAT
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GCCTGTGGAGGAGGAGAGGAGCGCTCTGACTCTGACAGCAGCCATAACGAAGAGGCCAAAGAACCGGAT
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GCCAAGGTCCCCAGCAGAGGGGATGAACGGTGCCTGCCTCCACAGAACCTCCACACCGCTTCTCCAG
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CATCAAACTGCAAGAGCACCGAGCTAAAGGAGTGTCAATCCCACTGATGCATGAAGCAATGCAGAAGTG
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ATGGTTCGAGCAGATCCAGTTTATTAGGGTTTTTCAGTCAACGCCTCGTCAGAGCGACTGAACATGGGTG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATACGACGATAAGGTTTAA

Protein Sequence:

>MR218968 representing NM_146112

Red=Cloning site Green=Tags(s)

MAAETQTLNFGPEWLRALSSGGISITSPPLSPALPKYKLADYRYGREEMLALFLKDYKIPFDLLEKEFLPI
LQEEPLPPLALVPFTEEEQRNFSMSVNSAAVLRLTGRGGGGTVVGAPRGRSSSRGRGRGECGFYQRS
FDEVEGVFGRGGGEMHRSQSWEERGDRREFKPKGRKDVGRPNFEESGPTSVGRKHEFIRSESENWRIFRE
EQNGEDEDGGWRLAGSRRDGERWRPHSPDGPRSTGWREHMERRRFEFDFRDRDDERGYRRVRSVSGSID
DDRDSLPEWCLEDAEEEMGTDFSSGAFLSLKKVQKEPIPEEQEMDFRPVEEGEERSDSDSSHNEEAKEPD
KTNRRGEKTDRAEAESEEVQTSLSARPGTPSDHQPQEATQFERKDEPKAEQVEKAEENRSENSLS
AKVPSRGDETVPASQQPSTPLPPDTASPLILSPPVPTSSASRPVETA AVEAPGMSSVSTEPDDEEGLK
HLEQQAEMVAYLQDSALDDERLTSKLQEHRAKGVSIPLMHEAMQKWWYKDPQGEIQGPFNNQEMAEWFQ
AGYFTMSLLVKRACDESFQPLGDIMKMWGRVPFSPGPAPPPHMGELDQERLTRQQLTALYQMQLQYQQ
FLIQQQYAQVLAQQQKAALSSQQQQALALLQQFQALKMRMSDQNIIPSVTRSVSVPTDGSIWELQPAAS
QPAVWEGSVWDLPLDTAPGPSLEQLQLEKAKAAKLEQERREAEMRAKREERERKRQEELRRQEEIL
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QQQQQQQALQMKLPSSSTWGQQSNTATCQSQATLSLAEIQKLEERERQLREEQRRQRELKALQQQQ
QQQQQQKLSGWGNVSKPAGTTKSLLEIQEEARQMKGQQQQQQQQQQHQQSNRARNSTHSLHTSLGNS
VWGSINTGPSNQWASELVSSIWSNADTKNSNMGFWDVAKEVGPRNSTNKNKNASLSKSVGVSNRQNK
VEEEEKLLKLFQGVNKAQDGFQWCEQMLHALNTANNLDVPTFVSFLKEVESPYEVHDYTRAYLGDTSEA
KEFAKQFLERRAKQKVNQRRQQQQQQQQQDSVWGMNHSTLHSVFQTNQSNQSNFEAVQSGKKKKKQK
MVRADPSLLGFSVNASSERLNMGEIETLDDY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

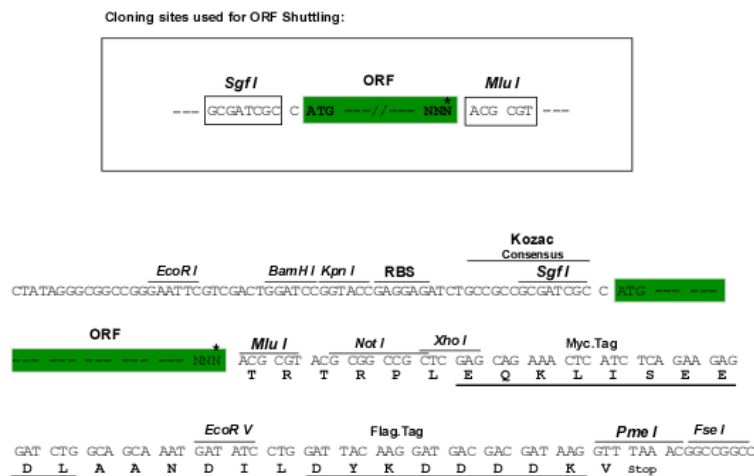
Chromatograms:

https://cdn.origene.com/chromatograms/mm9109_f08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:

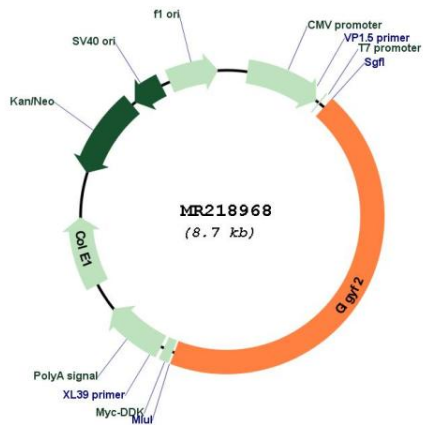
NM_146112

ORF Size:

3873 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_146112.4 , NP_666224.3
RefSeq Size:	5743 bp
RefSeq ORF:	3876 bp
Locus ID:	227331
UniProt ID:	Q6Y7W8
Cytogenetics:	1 C5- D
MW:	149.2 kDa
Gene Summary:	Key component of the 4EHP-GYF2 complex, a multiprotein complex that acts as a repressor of translation initiation (PubMed:26763119). In 4EHP-GYF2 the complex, acts as a factor that bridges EIF4E2 to ZFP36/TTP, linking translation repression with mRNA decay (PubMed:26763119). May act cooperatively with GRB10 to regulate tyrosine kinase receptor signaling, including IGF1 and insulin receptors (PubMed:12771153).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218968