

Product datasheet for **RC220987**

GBF1 (NM_004193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBF1 (NM_004193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GBF1
Synonyms:	ARF1GEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220987 representing NM_004193 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGATAAGAATATTTACATCATTCAAGGGGAGATTAACTTGTGGTTGGGGCCATCAAACGAAATG
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GGAGGTTTTAAACAGTATAACAGAACTCTCAGAAATTGAGCCCAATGTATTCCTTCGACCTTTCTGGAA
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CCTATGCACTCATAGATCCACCCATGAGGGCACAGCAGAGGGCATGGAGAACATGGCAGATGCTGTCAC
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CGGACTCTGTGCTAACCCAGTGGGTGCCACCTAACCAATGAATCTGTGTGTGAGATTATGCAGTCTT
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CTCAAGTTCCAAATGGAGATGTACATCAAAAAGCTTATGGAGATCATCACTGTGGAGAACCCCAAGATGC
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220987 representing NM_004193

Red=Cloning site Green=Tags(s)

MVDKNIYIIQGEINIVVGAIKRNARWSTHTPLDEERDPLLHSGHLEKVLNSITELSEIEPNVFLRPFLE
VIRSEDTTGPITGLALTSVNKFLSYALIDPHEGTAEGMENMADAVTHARFVGTDPADEVVLMKILQVL
RTLLLTPVGAHLTNEVCEIMQSCFRICFEMRLSELLRKSAEHTLVDMVQLLFTRLPQFKEPKNYVGTN
MKKLKMRAGGMSDSSKWKQKRSRPRPRHMTKVTGSELPTNGTTLSSNLTGMPFIDVPTPISSASSE
AASAVVSPSTDGLESSTQTSKEDLTLEQPGSPGYSTATEPGSSELGVPEQPDQEGTHVEKSQSASV
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DGKAVGMSDIPGLHLPGGGRLPPEHGKSGCSDLEEAVDSGADKKFARKPPRFSCLLPDPRELIEIKNKK
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DDWATLFTLLECIGSGVKPPAALQATARADAPDAGASDSELPYHQNDVSLDRGYTSDSEVYTDHGRPG
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RGGQSDDEDEGVASYHTVSLQVSQDLDLMTLHTRAASIYSSWAEQHRLETGGQKIEADSRTLWAH
CWCPLQLGIAACCDARRQVRMQUALTYLQRAALLVHDLQKLDALWESCENKVLFPLLTKLENISPADVG
GMEETRMRASTLLSKVFLQHLSPLLSLSTFAALWLTILDFMDKYMAGSSDLLSEAIPESLKNMLLYMDT
AEIFHSADARGGPSALWEITWERIDCFPLHRLDELFKQTVIQDPMPEPQGGKPLASAHLSAAGDTRT
PGHPPPEIPSELGACDFEKPESPRASSSSPGSPVASSPSRLSPTPDGPPPLAQPLILQLASPLQVG
VPPMTLPILNPALEATSPVPLLATPRPTDPIPTSEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8119_c02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_004193

ORF Size: 5577 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.

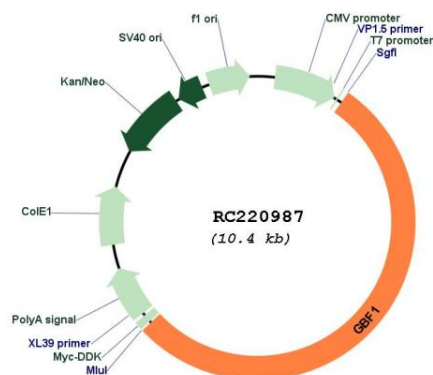
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_004193.2, NP_004184.1</u>
RefSeq Size:	6450 bp
RefSeq ORF:	5580 bp
Locus ID:	8729
UniProt ID:	<u>Q92538</u>
Cytogenetics:	10q24.32
Domains:	Sec7
MW:	206.45 kDa
Gene Summary:	This gene encodes a member of the Sec7 domain family. The encoded protein is a guanine nucleotide exchange factor that regulates the recruitment of proteins to membranes by mediating GDP to GTP exchange. The encoded protein is localized to the Golgi apparatus and plays a role in vesicular trafficking by activating ADP ribosylation factor 1. The encoded protein has also been identified as an important host factor for viral replication. Multiple transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC220987