

Product datasheet for **SC331301**

GBF1 (NM_001199379) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBF1 (NM_001199379) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBF1
Synonyms:	ARF1GEF
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331301 representing NM_001199379. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTGGATAAGAATATTTACATCATTCAGGGGAGATTAACATTGTGGTTGGGGCCATCAAACGAAAT
GCCCGATGGAGCACCCATACACCACTGGATGAAGAACGGGATCCTCTGCTGCATAGTTTCGGTCATCTA
AAGGAGGTTTTAAACAGTATAACAGAACTCTCAGAAATTGAGCCCAATGTATTCTTCGACCTTTCTG
GAAGTGATTGCTCTGAAGATACCACTGGCCCTATCACTGGACTGGCACTCACCTCTGTCAACAAGTTC
CTGTCTATGCACTCATAGATCCACCCATGAGGGCACAGCAGAGGGCATGGAGAACATGGCAGATGCT
GTCACCCATGCTCGTTTTGTGGGCACGGATCCTGCCAGTGATGAAGTTGCTCTGATGAAAATCCTTCAG
GTTCTACGGACTCTGCTGCTAACCCAGTGCGGTGCCACCTAACCAATGAATCTGTGTGTGAGATTATG
CAGTCTTGCTTCCGGATCTGCTTTGAAATGAGGCTCAGTGAGTTATTGAGAAAATCCGCAGAGCACACT
CTCGTAGACATGGTGCAGCTGCTCTTACAAGGTTACCTCAGTTTAAAGAAGAACCAAGAAGTATGTG
GGGACCAACATGAAGAAGCTGAAATGAGAGCCGGAGGCATGAGTGATTCATCCAAATGGAAGAAACAG
AAGAGATCCCCCTCGGCCCCACGCCATATGACCAAGTCACACCAAGTTTACAGAGTGGCCACTCCCAAT
GGAACCACTTATCATCTAACCTCACTGGTGGCATGCCCTTATTGATGTGCCACTCCCATCTCCTCT
GCAAGTTCAGAAGCTGCCTCAGCAGTGGTCAGTCCCTCTACAGACAGTGGCCTGGAATTCCTCCCAA
ACCACTTCCAAGGAAGACCTTACTGATCTAGAGCAACCTGGCTCTCCAGGGTACAGCACAGCTACAGAG
CCTGGAAGCAGTGAGCTAGGTGTTCCCGAGCAGCCTGACCTCCAGGAAGGGACCCATGTGGAAAAGTCC
CAGTCAGCATCTGTGGAGTCCATCCCTGAAGTGTTAGAGGAGTGACGTCCTGCGGACCACTCTGAC
TCTGCCTCTGTCCATGACATGGATTACGTCAATCCCCGGGGCGTGCCTTTACACAGTCTCCAGAAA
GAAGGCACAGCTTTGGTCCCCTATGGTCTTCCCTGCATCCGCGAGCTCTTCCGCTTCTCATCTCCCTC
ACCAATCCACACGACCGCCATAACTCAGAGGTTATGATTCACATGGGACTGCATTTGCTGACAGTGGCC
CTTGAGTCAGCCCCTGTAGCCAGTGCCAGACCCTCTTGGGCTCATCAAGGATGAGATGTGCCGTAC
TTATTCCAGCTACTCAGCATAGAGCGACTAAACCTTTATGCTGCTTCCCTGCGAGTATGCTTCTACTG
TTTGAGAGCATGCGAGAGCACCTCAAGTTCCAAATGGAGATGTACATCAAAAAGCTTATGGAGATCATC
ACTGTGGAGAACCCCAAGATGCCTTATGAGATGAAGGAGATGGCACTGGAGGCCATTGTGCACTCTGG
CGCATCCCCAGCTTTGTACAGAGCTCTACATCAACTATGATTGTGACTACTACTGTTCCAACTCTTT
GAGGAACTCACAAGCTGCTGTCCAAGAATGCCTTCCCTGTGTCTGGTCAACTCTATACAACACACCTA
CTATCTCTTGATGCCCTATTGACAGTGATTGACAGCACCAGGCCCCACTGCCAGGCTAAAGTCTCAAC
AGCCTCACCCAGCAAGAGAAGAAGGAGACAGCCAGACCAAGCTGTGAGATAGTAGATGGCACCCGAGAA
GCTAGCAATACTGAGAGAACTGCCAGCGATGGGAAAGCTGTAGGCATGGCCTCAGACATCCCAGGCGCTG



View online »

CATCTGCCAGGTGGAGGGCGGCTGCCACCAGAACATGGGAAATCAGGATGCAGTGATCTGGAGGAAGCT
 GTTGACTCTGGGGCTGACAAAAAGTTTGCCCGGAAGCCACCCCGATTTTCCTGTCTCCTGCCAGATCCA
 CGGGAACATAATTGAAATTAACAAAGAAAGCTGCTAATCACTGGCACAGAGCAGTTCAATCAGAAA
 CCAAGAAGGGGATTAGTTTCTGCAAGAGAAAGGCTCCTCACCATCCCAATGGACAACACAGAGGTT
 GCTCAGTGGCTCCGAGAGAACCTCGGCTGGACAAGAAGATGATTGGAGAGTTTGTGAGTGACCGCAAA
 AACATTGACCTGTTGGAGAGCTTTGTGAGCACCTTCAGTTTTCAGGGTCTGCGACTGGACGAAGCCCTC
 CGCCTCTACCTGGAAGCCTTCCGTTTGCCTGGGGAAGCACCAGTCATCCAGAGGTTGCTGGAGGCATTTC
 ACAGAGCGTTGGATGAATTGTAATGGCTCCCATTTGCCAATAGCGATGCCTGCTTTCCCTGGCCAT
 GCTGTCTCATGCTTAATACTGACCAGCACAAACCACAATGTTTCGTAACAGAATGCACCCATGACCTG
 GAGGAGTTTCGAAAAATCTGAAAGGTGTGAATGGAGGCAAGGACTTTGAGCAAGACATCCTGGAGGAC
 ATGTACCATGCCATCAAGAATGAGGAAATTGTAATGCCTGAGGAGCAGACAGGCTTGTTTCGGGAGAAC
 TATGTGTGAATGTGCTGCTTCATCGAGGTGCCACCCCTGAGGGCATATTCCTGCGTGTGCTACTGCC
 AGCTATGATCTTGACCTTTCACCATGACCTGGGGCCCCACTATTGCTGCTCTCTTATGTCTTTGAC
 AAAAGCCTTGAGGAGACAATCATCCAGAAAGCCATCTCAGGCTTCAGGAAGTGCGCCATGATCTCCGCC
 CACTATGGCCTCAGCGATGTGTTTGACAATCTCATCTCTCTATGCAAATTCACAGCTCTCAGCAGT
 GAGTCTATTGAGAACCTGCCAGTGATTTGGAAGCAACCCTAAAGCCCATATTGCAGCCAAGACAGTA
 TTCCATTTGGCCCATCGTCATGGTGACATCCTGCGGGAGGGCTGGAAGAATATCATGGAGGCCATGCTG
 CAGCTCTTCGAGCCCACTACTGCCAAAGGCTATGATAGAGGTAGAAGATTTTCGTGGATCCCAATGGC
 AAGATCTCTACAGCGGGAAGAGACACCATCAAACCGAGGAGAGTCAACAGTGCTGAGCTTTGTGAGC
 TGGCTAACACTGAGTGGTCTGAGCAGTCTAGTGTTCGGGGCCCATCCACTGAAAACCAAGAGGCCAAG
 AGAGTGGCCTTAGAGTGATAAAGCAATGTGACCCAGAAAAATGATCACAGAAAGCAAGTTCCTCCAG
 CTGGAGTCACTACAGGAGCTCATGAAGGCTCTGGTCTCAGTGACACCAGATGAAGAGACATATGATGAG
 GAAGATGCTGCTTTCTGCCTAGAGATGCTGCTAAGGATTGTGTTGGAGAACAGGGATCGTGTGGGCTGT
 GTGTGGCAGACTGTTTCGAGACCATCTATACCACCTCTGTGTTTCAGGCACAAAGATTTCTGCTTCTGTG
 GAGCGGGCAGTGGTGGGTTGCTACGCCTGGCCATTTCGGCTTCTCCGAGAGAAGAGATCAGTGCTCAG
 GTGCTGCTCTCCCTGCGCATTTTGTACTGATGAAGCCAGTGCTATCCCGAGTCAGCCACCAGGTT
 GCGTATGGGCTCCATGAACCTCTGAAGACCAATGCAGCCAACATCCACTCAGGTGATGACTGGGCCACA
 CTCTTCACACTGCTGGAGTGCATCGGCTCAGGTGTGAAGCCTCCAGTCTGCTGACAGGCCACAGCCAGG
 GCAGATGCACCTGATGCCGGGGCCAGTCAGATAGTGAGTCCCATCCTACCATCAGAATGACGTGAGC
 CTGGATCGAGGTACACTTCGACTCAGAGGTCTACACTGACCATGGCAGGCCGGCAAGATACACCGA
 TCAGCCACAGATGCCGATGTGGTCAACAGTGGTGGTTAGTGGTTGGGAAGGATGACGTTGATAACTCC
 AAGCCAGGGCCAGCCGCCAGGCCCTTACCCCTGATCAATCAATACAGCCTAACAGTGGGACTGGAT
 TTGGGGCCACACGACACTAAGTCTCTGCTTAAGTGTGTGGAATCGCTGTCTCTCATCGTGCCTGATGCT
 GCCCACATCACACCTGACAACCTTGAGCTCTGCGTCAAGACTCTCCGGATCTTTGTGGAGGCCAGTCTG
 AATGGCGGATGCAAGTCCAGGAGAAACGTGGCAAGAGTCACAAATATGACAGCAAGGGAAACCGCTTC
 AAGAAGAAATCCAAAGAGGGATCAATGCTTCGCCGGCCTCGAACCTCCAGCCAACATGCCTCTCGGGGC
 GGGCAGAGTGATGATGATGAGGACGAAGGCGTGCCTGCCAGCTACCATACGGTGTCTTTACAGTTGCTA
 GACCTGATGCACACCTGCACACGCGGGCAGCCTCTATCTACAGCTCATGGGCGGAGGAGCAACGCCAC
 CTGGAGACAGGTGGCCAGAAGATTGAAGCTGATTCTCGCACCTCTGGGCCCACTGCTGGTGCCCTTTA
 CTGCAGGGTATTGCCTGCCTGTGCTGCGATGCCGGCGCCAGGTACGGATGCAGGCACTGACCTATCTG
 CAGCGAGCACTACTTGTACATGATCTGCAAAAGCTAGATGCCCTGGAATGGGAGTCTGTTTTAAACAAG
 GTGCTGTTTTCTCTACTTACCAAGCTCTTGGAACATCAGCCCTGCAGATGTGGGTGGGATGGAGGAG
 ACCCGGATGAGGGCTTCCACATTGCTCTCTAAGGTCTTCTGCAGCACCTGTCTCCACTGCTGTCACTC
 TCTACCTTTGCGGCCCTCTGGCTCACCATCTTGGACTTCATGGACAAGTACATGCACGCAGGCTCCAGC
 GACTTACTGTGAGGGGATCCCTGAGTCTCTGAAGAACATGCTTCTGGTGATGGACACAGCGGAGATT
 TTCCACAGTGCAGATGCACGGGGAGGCGGCCCTCGGCCCTCTGGGAGATCACCTGGGAACGCATTGAC
 TGTTTTCTCCCTCACCTACGAGATGAACCTTCAAGCAGACCGTCATCCAGGACCCCATGCCATGGAG
 CCTCAAGGCCAAAAGCCTCTCGCCTCAGCCACCTGACTTCCGCTGCTGGCGACACTAGGACACCTGGC
 CATCCACCGCCCCAGAGATTCCATCTGAGCTGGGGGCTGTGACTTTGAGAAGCCCGAGAGCCCCGA
 GCCGCCAGCAGAGCTCCCCAGGATCACCAGTGGCCTCAAGCCCCAGCAGGCTGAGCCCCACCCCGAC
 GGGCCTCCACCTTGGCTCAGCCCCACTGATCCTGCAGCCCTTGGCCTCCCCACTGCAGGTGGGCGTG
 CCACCTATGACTCTGCCCATCATCTCAACCCTGCGCTCATCGAGGCCACCTCACCAGTGCCCTCCTG

GCCACACCCCGCCCCACAGATCCCATACCCACCTCTGAGGTCAAC**TAA**

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001199379
Insert Size:	5568 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:	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_001199379.1</u>
RefSeq Size:	6438 bp
RefSeq ORF:	5568 bp
Locus ID:	8729
UniProt ID:	<u>Q92538</u>
Cytogenetics:	10q24.32
MW:	206 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] Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.