

Product datasheet for **RG213996**

GRAF (ARHGAP26) (NM_015071) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAF (ARHGAP26) (NM_015071) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRAF
Synonyms:	GRAF; GRAF1; OPHN1L; OPHN1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG213996 representing NM_015071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTCCAGCGCTCGAGTTCAGCGACTGCTGCCTCGATAGTCCGCACTTCCGAGAGACGCTCAAGT
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 TGCATAGGAGATGCAGAAACAGATGATGAGATGTGTATAGCAAGATCTTTCAGGAGTTTCCACTGTCC
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 GTTGGAGGGGACTCTGAACGAAAAGACTGGCCTCATCCCTGAGAATTACGTGGAGTTCCTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213996 representing NM_015071
Red=Cloning site Green=Tags(s)

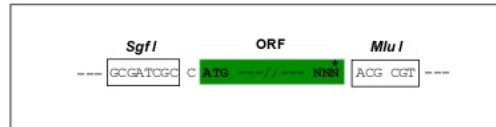
MGLPALEFSDCCLDSPHFRETLSHEAELDKTNKFIKELIKDGSLSISALKNLSAKRKFADSLNEFKFQ
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SLVHRLPEKNRQMLQLLMNHLANVANNHKQNLMTVANLGVVFGPTLLRPQEETVAAIMDIKFQNIIVIEIL
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SVAGFVWFVAAVVLRLARSSLHAVFSLLVNFVPCPNLHLLFDRPEEAVHEDSSTPFRKAKALYACKAE
HDELSFTAGTVFDNVHPSQEPGWLEGLNGKTGLIPENYVEFL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*
 CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- -- --
 T R T R P L E M E S D - - -

PmeI *FseI*
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
 - - E E R V Stop

ACCN:	NM_015071
ORF Size:	2442 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_015071.3](#)

RefSeq Size: 6518 bp

RefSeq ORF: 2445 bp

Locus ID: 23092

UniProt ID: [Q9UNA1](#)

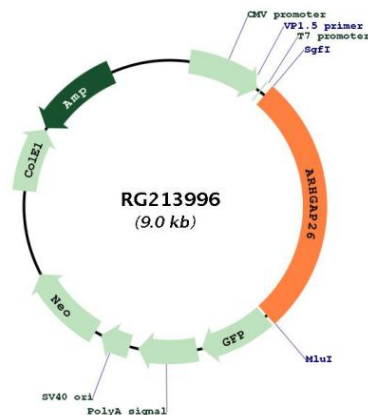
Cytogenetics: 5q31.3

Domains: RhoGAP, SH3, PH

Protein Families: Druggable Genome

Gene Summary: Interaction of a cell with the extracellular matrix triggers integrin cell surface receptors to begin signaling cascades that regulate the organization of the actin-cytoskeleton. One of the proteins involved in these cascades is focal adhesion kinase. The protein encoded by this gene is a GTPase activating protein that binds to focal adhesion kinase and mediates the activity of the GTP binding proteins RhoA and Cdc42. Defects in this gene are a cause of juvenile myelomonocytic leukemia (JMML). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG213996