

Product datasheet for **RG226597**

GRAF (ARHGAP26) (NM_001135608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAF (ARHGAP26) (NM_001135608) 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:

>RG226597 representing NM_001135608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTCCAGCGCTCGAGTTCAGCGACTGCTGCCTCGATAGTCCGCACTTCCGAGAGACGCTCAAGT
 CGCACGAAGCAGAGCTGGACAAGACCAACAAATTCATCAAGGAGCTCATCAAGGACGGGAAGTCACTCAT
 AAGCGCGCTCAAGAATTTGTCTTCAGCGAAGCGGAAGTTTGCAGATTCCTTAAATGAATTTAAATTTTCAG
 TGCATAGGAGATGCAGAAACAGATGATGAGATGTGTATAGCAAGGTCTTTGCAGGAGTTTCCACTGTCC
 TCAGGAATCTTGAAGATGAACGGATACGGATGATTGAGAATGCCAGCGAGGTGCTCATCACTCCCTTGGGA
 GAAGTTTCGAAAGGAACAGATCGGGGCTGCCAAGGAAGCCAAAAAGAAGTATGACAAAGAGACAGAAAAG
 TATTGTGGCATCTTAGAAAAACACTTGAATTTGTCTTCCAAAAAGAAAGAATCTCAGCTTCAGGAGGCAG
 ACAGCCAAGTGGACCTGGTCCGGCAGCATTCTATGAAGTATCCCTGGAATATGTCTTCAAGGTGCAGGA
 AGTCCAAGAGAGAAAGATGTTTGTAGTTTGTGGAGCCTCTGCTGGCCTTCCGCAAGGACTTTCCTTTTC
 TATCACCATGGTTACGAAGTGGCAAGGATTCGGGGACTTCAAGACACAGTTAACCATAGCATACAGA
 ACACAAGAAATCGCTTTGAAGGCACTAGATCAGAAGTGAATCACTGATGAAAAAGATGAAGGAGATCC
 CCTTGAGCACAAGACCATCAGTCCCTACACCATGGAGGGATACCTCTACGTGCAGGAGAAACGCTCACTTT
 GGAAGTCTTGGGTGAAGCACTACTGTACATATCAACGGGATTCACAAACAAATCACCATGGTACCATTTG
 ACCAAAAGTCAGGAGGAAAAGGGGGAGAAGATGAATCAGTTATCCTCAAATCCTGCACACGGCGGAAAAC
 AGACTCCATTGAGAAGAGGTTTTGCTTTGATGTGGAAGCAGTAGACAGGCCAGGGGTTATCACCATGCAA
 GCTTTGTGCGAAGAGGACCGGAGGCTCTGGATGGAAGCCATGGATGGCCGGGAACCTGTCTACAACGCA
 ACAAGACAGCCAGAGTGAAGGACTGCGCAGTTGGACAGCATTGGCTTCAAGTAAATCAGGAAATGCAT
 CCATGCTGTGGAACACAGAGGGATCAACGAGCAAGGGCTGTATCGAATTGTGGGGTCAACTCCAGAGTG
 CAGAAGTTGCTGAGTGTCTGATGGACCCAAAGACTGCTTCTGAGACAGAAACAGATATCTGTGCTGAAT
 GGGAGATAAAGACCATCACTAGTGTCTGAAGACCTACCTAAGAATGCTTCCAGGACCACTCATGATGTA
 CCAGTTTCAAAGAAGTTTCATCAAAGCAGCAAACTGGAGAACCAGGAGTCTCGGGTCTCTGAAATCCAC
 AGCCTTGTTCATCGGCTCCAGAGAAAAATCGGCAGATGTTACAGCTGCTCATGAACCACTTGGCAAATG
 TTGCTAACCAACCAAGCAGAAATTTGATGACGGTGGCAAACCTTGGTGTGGTGTGGACCCACTCTGCT
 GAGGCCTCAGGAAGAAACAGTAGCAGCCATCATGGACATCAAATTCAGAACATTGTCTTGGATCCTA
 ATAGAAAACCACGAAAAGATATTTAACACCGTGCCCGATATGCCTCTACCAATGCCAGCTGCACCTGT
 CTCGGAAGAAGAGCAGTACTCCAAGCCCCGTCTGCAGCGAGAGGCCCTGACGCTCTCCACACCGT
 TCAGTCAACAGAGAAACAGGAACAAAGGAACAGCATCATCAACTCCAGTTTGAATCTGTCTCATCAAAT
 CCAAACAGCATCCTTAATTCAGCAGCAGCTTACAGCCCAACATGAACTCCAGTGACCCAGACCTGGCTG
 TGGTCAAACCCACCCGGCCAACTCACTCCCCCGAATCCAAGCCAACTTACCCTCTCGCCATCTTG
 GCCCATGTTCTCGGCGCCATCCAGCCCTATGCCACCTCATCCACGTCCAGCGACTCATCCCCCGTCAGC
 ACACCGTTCGGAAGGCAAAAGCCTTGTATGCCTGCAAAGCTGAACATGACTCAGAACTTTCGTTTCAGC
 CAGGCACGGTCTTCGATAATGTTACCCATCTCAGGAGCCTGGCTGGTTGGAGGGGACTCTGAACGGAAA
 GACTGGCCTCATCCCTGAGAATTACGTGGAGTTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226597 representing NM_001135608
Red=Cloning site Green=Tags(s)

MGLPALEFSDCCLDSPHFRET LK SHEAELDKTNKFIKELIKD GKSLISALKNLSAKRKFADSLNEFKFQ
 CIGDAETDDEMCIARSLQEFATVLRNLEDERIRMIENASEVLITPLEKFRKEQIGAAKEAKKKYDKETEK
 YCGILEKHLNLSKKKESQLQEADSQVDLVRQHFYEVSLEYVFKVQEVQERKMFEVPELLAFLQGLFTF
 YHHGYELAKDFGDFKTQLTISIQNTRNRFEGTRSEVESLMKKMKENPLEHKTISP YTMEGYLYVQEKRFH
 GTSWVKHYCTYQRDSKQITMVPFDQKSGGKGEDES VILK SCTRRTDSIEKRF CFDVEAVDRPGVITMQ
 ALSEEDRRLWMEAMDGREPVYNSNKDSQSEGTAQLDSIGFSIIRKCIHAVETRGINEQGLYRIVGVNSRV
 QKLLSVLMDPKTASETETDICAWEIKTITSALKTYLRMLPGPLMMYQFQRSFIKAAKLENQESRVSEIH
 SLVHRLPEKNRQMLQLLMNHLANVANNHKQNLMTVANLGVVFGPTLLRPQEETVAAIMDIKFQNIIVIEIL
 IENHEKIFNTVPDMPLTNAQLHL SRKSSDSKPPSCSERPLTLFHTVQSTEKQEQRNSIINSSLESVSSN
 PNSILNSSSLQPNMSSDPDLAVVKPTRPNSLPPNPSPTSPLSPSWPMFSAPSSPMPTSS TSSDSSPV S
 TPF RKAKALYACKAEHDS ELSFTAGTVFDNVHPSQEPGWLEGLNGKTGLIPENYVEFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135608

ORF Size: 2277 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_001135608.1](#), [NP_001129080.1](#)

RefSeq Size: 8876 bp

RefSeq ORF: 2280 bp

Locus ID: 23092

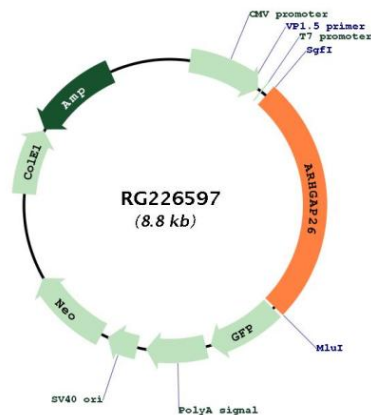
UniProt ID: [Q9UNA1](#)

Cytogenetics: 5q31.3

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 RG226597