

Product datasheet for **SC114705**

GRAF (ARHGAP26) (NM_015071) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAF (ARHGAP26) (NM_015071) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAF
Synonyms:	GRAF; GRAF1; OPHN1L; OPHN1L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_015071 edited
ATGGGGCTCCCAGCGCTCGAGTTCAGCGACTGCTGCCTCGATAGTCCGCACTTCCGAGAG
ACGCTCAAGTCGCACGAAGCAGAGCTGGACAAGACCAACAAATTCATCAAGGAGCTCATC
AAGGACGGGAAGTCACTCATAAGCGCGCTCAAGAATTTGTCTTCAGCGAAGCGGAAGTTT
GCAGATTCCTTAAATGAATTTAAATTTTCAGTGCATAGGAGATGCAGAAACAGATGATGAG
ATGTGTATAGCAAGATCTTTGCAGGAGTTTGCCACTGTCCTCAGGAATCTTGAAGATGAA
CGGATACGGATGATTGAGAATGCCAGCGAGGTGCTCATCACTCCCTTGGAGAAGTTTCGA
AAGGAACAGATCGGGCTGCCAAGGAAGCCAAAAGAAGTATGACAAAGAGACAGAAAAG
TATTGTGGCATCTTAGAAAAACACTTGAATTTGTCTTCCAAAAAGAAAGATCTCAGCTT
CAGGAGGCAGACAGCCAAGTGGACTGGTCCGGCAGCATTTCTATGAAGTATCCCTGGAA
TATGTCTTCAAGGTGCAGGAAGTCCAAGAGAGAAAGATGTTTGTGTTTGGAGCCTCTG
CTGGCCTTCTGCAAGGACTCTTCACTTTCTATCACCATGGTTACGAACTGGCCAAGGAT
TTCGGGGACTTCAAGACACAGTTAACCATTAGCATACAGAACACAAGAAATCGCTTTGAA
GGCACTAGATCAGAAGTGAATCACTGATGAAAAAGATGAAGGAGAATCCCTTGAGCAC
AAGACCATCAGTCCCTACACCATGGAGGGATACCTCTACGTGCAGGAGAAACGTCACTTT
GGAACCTCTTGGGTGAAGCACTACTGTACATATCAACGGGATTCCAAACAATCACCATG
GTACCATTGACCAAAAGTCAGGAGGAAAAGGGGGAGAAGATGAATCAGTTATCCTCAA
TCCTGCACACGGCGGAAAACAGACTCCATTGAGAAGAGGTTTTGCTTTGATGTGGAAGCA
GTAGACAGGCCAGGGGTTATCACCATGCAAGCTTTGTCCGAAGAGGACCGGAGGCTCTGG
ATGGAAGCCATGGATGGCCGGGAACCTGTCTACAACCTCGAACAAGACAGCCAGAGTGAA
GGGACTGCGCAGTTGGACAGCATTGGCTTCAGCATAATCAGGAAATGCATCCATGCTGTG
GAAACCAGAGGGATCAACGAGCAAGGGCTGTATCGAATTGTGGGTGTCAACTCCAGAGTG
CAGAAGTTGCTGAGTGTCTGATGGACCCCAAGACTGCTTCTGAGACAGAAAACAGATATC
TGTGCTGAATGGGAGATAAAGACCATCACTAGTGTCTGAAGACCTACCTAAGAATGCTT
CCAGGACCACTCATGATGTACCAGTTTCAAAGAAGTTTCATCAAAGCAGCAAAACTGGAG
AACCAGGAGTCTCGGGTCTCTGAAATCCACAGCCTTGTTCATCGGCTCCCAGAGAAAAAT
CGGCAGATGTTACAGCTGCTCATGAACCACTTGGCAAATGTTGCTAACAACCACAAGCAG
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ATAGAAAACCACGAAAAGATATTTAACACCGTGCCGATATGCCTCTACCAATGCCAG
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TTACAGCCCAACATGAACTCCAGTGACCCAGACCTGGCTGTGGTCAAACCCACCCGGCCC
AACTCACTCCCCCGAATCCAAGCCCAACTTCAACCCCTCTCGCCATCTTGGCCATGTTT
TCGGCGCCATCCAGCCATATGCCACCTCATCCACGTCCAGCGACTCATCCCCGTGTCAGG
TCTGTTGACGGGTTTGTGGTTTTCTGTTGCTGCCGTTGTTCTCTCATTGGCTCGGTCC
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ACGGTCTTCGATAATGTTACCCATCTCAGGAGCCTGGCTGGTTGGAGGGGACTCTGAAC
GGAAAGACTGGCCTCATCCCTGAGAATTACGTGGAGTTCCTCTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015071 unedited
 TCAGATTATGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGCTCGAGGCT
 GCCGAGAGCTAGCTAGCGAAGGAGGCGGGGAGGCGGCTCTGCGCTCGCCCGCTCGCTCG
 CTTCCCGGCGCCGCTGCGGGTCCGCGCTGCGTTTCTGCTCGCGATCCGCTCCGTTGCC
 GCGCCCGAACAGCAGCACCTCGGCCGGTCCGAGCTCGGTTCCGGAGTCTTGCGCGCCG
 GCGGACACCGCGCGGAGTGAGCCAGCACACCTGTGGAGCCGCGCGCCGCGGGGG
 AGCCGGCCGGGGTCCCGCCGCTGAGTGCTCTGGGCGGCGGCGCCCGGGCCCGGGCG
 AGGCGCGCCCGGCTGGGCGCGCGCACCATGGGGCTCCAGCGCTCGAGTTCAGC
 GACTGCTGCCTCGATAGTCCGCCTTCCGAGAGACGCTCAAGTCGCACGAAGCAGAGCTG
 GACAAGACCAACAAATTCATCAAGGAGCTCATCAAGGACGGGAAGTCACTCATAAGCGCG
 CTAAGAATTTGTCTTACGGAAGCGGAAGTTGCAGATTCTTAAATGAANTTAAATTT
 CAGTGCATAGGAGATGCAGAAACAGATGATGAGATGTGTATAGCAAGATCTTTCAGGAG
 TTTGCCACTGTCCTCAGGAATCTTGAAGATGAACGGATACGGATGATTGAGAATGCCAGC
 GAGGTGCTCATCACTCCCTTGGAGAAAGTCCGAAGGGACCAGATCGGGTCCCAAGGAG
 CCAAAAAGAGTATGACAAGAGACAGAAAGTATGGGGCATCTTAGAAAACACTTGAATTTG
 CTCAAAAAAGAAGTCCACCTTACAGAGCAGACAGCCAGTGGACCTGGTCCGCAGCATTC
 TTATGAGATTCCTGGATATGCTTCAAGTGCAGCAGTCCAAGGAGAAGAGTTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015071 unedited
 CGTTGCCCGCGGCCGCAATCTACAGTCGAGTTTTTTTTTTTTTTTTTAAAGTCCCTAA
 CAAGGAATTCAGAAACAGGAAACTCTGAAGCAACGCTGCCATCCAAGGGCTCCTGG
 GGAGCTTGACGGTCCATCGGTTTGTAGTTGTCTAGAGTACCCTTGCAATGACATTCAC
 ATGTGGAAGATACGGATAACTCTGTTGTTGCAGGCCAAGTGAATTTGAAATCTCCAGGT
 AGTACTTCCCATCCAAGATTTTTTTCACAAGATCCAGCCTCTTTTACCAGCAAAATC
 CCTTTTTCAGAGGGTACTCATACCACCCTACAACCTTGGGTTACTTCTGAATCACAATG
 GCCTATCTTACCCCAAGTTTTGCAAGACTGCCAAATATTTCTTCCCTCCCAGCGCCC
 CACACCCCTGTGCCCCCTCACCCCTCTCTCCCTCCAGTATGATCCCCCTCCCCG
 TTGCTCATCCCCCTTCCCCCTCCCACCTTCCCCCCCCCAACCAACCCCTTGCTCCT
 TTTCCCTCCCTCTCCCCCATTTCCACCTCTCCCCACCTCCCCCCCCCATCTACCAC
 ACCTACTCCTCTTCTCCTTCCCTCCTCCCTCCACCCTCTTCCCTTCCCTGCT
 CCTCCCGACCCCTCCCTCCCTACCAACTCAAACCTCCATCCCCCTCTCCGCTCC
 CCTATCCCCCTCCCCCAATCTCCCTTCCACCTTATATCATCCCTATCCACCCCTTCC
 CCTTCGATTCCCTCTATCTTCTCTCTCCCTTCTACCCTCCACCCCTCGCCATATCC
 ACCTCCCATCTACTCCCTCCCCCGCTCCCTTCTCATCCCTCCTCTATCCCACAC
 TCCCCCGCACCCCTCCCTATATATCCCTCCCCCCCCCTCGCCGCACACCATATCGCTC
 CACCCCTCCCTCCCTACCTCAGTTCTCTCGATCTCCNTCCACCAATCTCCGCACCTCTC
 CTTTCTCTCTGCTTCCGTTCCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_015071

Insert Size:

4700 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: [NM_015071.2](#), [NP_055886.1](#)

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.