

Product datasheet for **SC318957**

GEFT (ARHGEF25) (NM_001111270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GEFT (ARHGEF25) (NM_001111270) Human Untagged Clone
Tag:	Tag Free
Symbol:	GEFT
Synonyms:	GEFT; p63RhoGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318957 representing NM_001111270.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAAGCCCCCGACCGCCCCGCCCTGGCCGCACTACCGGATACTGGGGGTATGGGGGCATGCTG
CGCGCATGCGCCCTCCCTGGGCAGGAGGGGCCCAAGGAGAAGCCCTCTAGGGTTGGTGGGTACCGAG
CCAGAGTCTGAACGTACGGAGGGAGATCAGAGAAGGGATCGCGAACATGAGGTCCTCGCCGGGGCTCTG
CAGCCCCGAATCCTATTCCATTGCGGGCAGTGAGGGGAGTATATCGGCTTCTGCTGCCCTCCGGTCTGGCT
GCCCCCTCTGGCCCCAGCTCTGGCCTCAGCTCTGGCCCTGTTCCCCAGGCCCCCAGGGCCCGTCAGT
GGCCTGAGGAGATGGTTGGATCATTCAAACATTGTCTCAGTGTGAAACTGAGGCAGACAGTGGTCAG
GCAGGACCATATGAGAACTGGATGTTGGAGCCAGCTCTAGCCACAGGAGAGGAGCTGCCGGAAGTACC
TTGCTGACCACACTGTTGAGGGCCCTGGAGATAAGACGCAGCCACCTGAAGAGGAGACTTTGTCCCAA
GCCCCCTGAGAGTGAGGAGGAACAGAAGAAGAGCTCTGGAAGGAGTATGTATGCTCTGAGTGAATG
GTAGAAACAGAGAAAATGTACGTGGACGACTTGGGGCAGATTGTGGAGGTTATATGGCCACCATGGCT
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GAGTGGCACCGAGACTATTTCTTCAAGAGCTACAACGGTGTCTGAAAGATCCTGATTGGCTGGCTCAG
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GGTCGAGAGAGGGCGCTTCTCTTTGAGCAAATCATCATCTTCAGTGAAGCCCTGGGAGGAGGAGTG
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GTCCTGCAGGCTGCAGACCCTGCTATCAGTCAGGCCTGGATCAAGCATGTGGCTCAGATCTTGGAGAGC
CAACGGGACTTCTCAACGATTGCAGTCACCCATTGAGTACCAGAGACGGGAGAGCCAGACCAACAGC
CTGGGGCGGCCAAGAGGGCCTGGAGTGGGAGCCCTGGAAGAATTCGGCTTGGAGATCAGGCCAGGGC
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GCCCTCTTGCCACTGGATAAACAGGCCCTTGGTGACATCCCCAGGCTCCCCATGACTCTCTCCAGTC
TCTCCAACCTCAAAAACCCCTCCCTGCCAAGCCAGACTTGCCAAGCTGGATGAAGATGAGCTGTA
ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001111270

Insert Size: 1860 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001111270.2](#)

RefSeq Size: 2257 bp

RefSeq ORF: 1860 bp

Locus ID: 115557

UniProt ID: [Q86VW2](#)

Cytogenetics: 12q13.3

MW: 68.1 kDa

Gene Summary: Rho GTPases alternate between an inactive GDP-bound state and an active GTP-bound state, and GEFs facilitate GDP/GTP exchange. This gene encodes a guanine nucleotide exchange factor (GEF) which interacts with Rho GTPases involved in contraction of vascular smooth muscles, regulation of responses to angiotensin II and lens cell differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (3) differs in the 5' UTR, and in the presence and absence of exons in the 5' coding region, compared to variant 1. The resulting isoform (3) contains a distinct N-terminus and is longer than isoform 1.