

Product datasheet for **SC318346**

SGEF (ARHGEF26) (NM_015595) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SGEF
Synonyms:	CSGEF; HMFN1864; SGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC318346 representing NM_015595.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACGGCGAGAGCGAGGTGGATTTTCTAGCAACAGCATAACCCCTTTGTGGCGGAGGCGGTTCGATT
CCTCAGCCCCACCAGTTCTGGGCCGAGCAAGCCGAGGCCCCAGTCTACCAGAGCCCCAACGGTTA
CTAATTACGGATTTCCCGGTGGAGGACGAGGGACGCTCCTCGCAGCGCAGATTCGCCCCAGGTGCC
ACCGCCTCGGACAGCAGGACGGTACATAGGAGCCCCCTGCTTCTGGGCGCCAGCGGAGAGCGGTGGCC
AATGGTGGGACGGCATCCCCGAGTACAGGGTGCCTCTCTCGACTTCGACGGCCCAAGTACCCCAAG
CTCCCCAAGCGGTGCCTGGCGGCTCCCCGAAATCCCCAGCAATGGCGCGGTGACCTTGCTGCGCCG
CGGCCCGCGCGGTTCTGCGCCCCCGCGGACTCCTAACGCGCCCGCCCTGCACCCCGAGGAGGAC
CTTACTGGGTGACTGCCAGCCGGTGCCTTCGCCACTGCAATGGCCTTGCCGCTAATAACGACTCT
CCTGGGTGAGTTCGAGTCCGGCCGAAGGCAAGGACCCGAACGGGGGCTTTTCTGGGCCCCAG
AAAAGTTCTTCGGAACAAAACTCCCCCTCAAAGGCTGCCCTCCAGGAGAACGAGCTCCTCGAGAAT
CCTTCGCTGGTTTTGAGTACAAACAGCCCCGCGCCCTCAAAGTGGGGAAGCAGCAGATCATTCCGAAG
AGTCTGGCCTCGGAAATTAATAAGTAAATCCAACATCAAAATGTGGAGCCCCACAAGAGACTCCTC
AAGGTGCGCAGCATGGTGGAGGGCTAGGAGGACCCCTGGGTACGACAGGGGAGGAGAGTGGGTGAT
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AGTGGCTTTGATTTTGACAGTCTACAGCTCGAAGAAGAAGAACAGAAATGTCCAGCCTGTTCTGAAA
GTGGTGATGGAAGACAAGGAGAAGTTTCCAGTCTGGGAAGGATAAAGAAAAAATGCTGAAAGGACAA
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TCTGATGAAGAGTCAGAGCCCCAAGAACAGAGTCAGATGAAAAATTTGATTACCCATAAGCCATTG
AGATCCACATGGAGCCAACTCTCTGCGGTGAAAAGAAAGGATTATCTCAGACAGTAAGCCAGGAGGAA
AGAAAGAGACAAGAGGCTATCTTTGAAGTCATCTCTGAACATTCATTTTACTCAGCTTGGAGATC
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GTGAAATACTGCACAAATGAAGTCTACCAACAACGAACACTACAAAAATTTGTAGCTACCAATCCATCC
TTTAAGGAAGTATTGTCAAGGATTGAGTCCCATGAAGACTGTAGGAACCTACCCATGATCTTTTCTC
ATTCTCCCATGACAGGGTGACCCGCTTCCCCTGCTGATGGATACTATCTGTCAAAAAACACCTAAG
GACTCTCCGAAGTATGAAGTCTGCAAAAGAGCCTTGAAGGAAGTTAGCAAGTTGGTTCGACTATGCAAT
GAGGGCGCCCGGAAGTGGAAAGGACTGAGATGATGTACACAATTAACCTCCAGCTGGAATTTAAAT
AAGCCTTTTCTTTAGTCTCTCTTCCCGGTGGTTGGTAAAAAGAGGTGAATTGACAGCCTATGTTGAA
GACACTGTGCTTTTCTCAAGAAGGACATCCAAACAGCAAGTCTACTTCTTTCTTTAACGATGTGCTC
ATTATACCAAGAAGAAGAGTGAAGAAAGTTACAACGTCAATGATTATTCTTAAGAGATCAGCTATTG
GTGGAATCTTGACAAATGAAGAGCTTAATTCTCTCCAGGGAAGAACAGCTCCACAATGCTCTATTCA
AGACAGAGCTCTGCCAGTCACCTTTTACTCTGACAGTCTTAGTAACACGCGAATGAGAAAGTGGAG
ATGCTACTAGGAGCTGAGACGAGAGCGAGCGAGCCCGCTGGATAACTGCCCTGGGACACAGCAGCGG
AAGCCGCTGCAGACCGAACCTCACTGACCCAGGTGGAATCGTTAGGTCAATTAAGTCTAAGCAGCCA
GATGAATCTCCCTGCAGGTGGCTGACGTGCTCCTCATCTATCAACGTGTGACGATGGCTGGTATGAG
GGGGAACGACTACGAGATGGAGAAAGAGGCTGGTTCTATGGAATGTGCCAAGGAGATAACATGTCAA
GCTACAATTGATAAGAATGTGGAGAGAATGGACGCTTGCTAGGACTGGAGACCAACGTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_015595

Insert Size:

2616 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_015595.3</u>
RefSeq Size:	5181 bp
RefSeq ORF:	2616 bp
Locus ID:	26084
UniProt ID:	<u>Q96DR7</u>
Cytogenetics:	3q25.2
Domains:	RhoGEF, SH3, PH
MW:	97.3 kDa

Gene Summary:

This gene encodes a member of the Rho-guanine nucleotide exchange factor (Rho-GEF) family. These proteins regulate Rho GTPases by catalyzing the exchange of GDP for GTP. The encoded protein specifically activates RhoG and plays a role in the promotion of macropinocytosis. Underexpression of the encoded protein may be a predictive marker of chemoresistant disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.