

Product datasheet for **SC327686**

GEF H1 (ARHGEF2) (NM_001162384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GEF H1 (ARHGEF2) (NM_001162384) Human Untagged Clone
Tag:	Tag Free
Symbol:	GEF H1
Synonyms:	GEF; GEF-H1; GEFH1; Lfc; LFP40; NEDMHM; P40
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001162384, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCGGATCGAATCCCTCACGCGGGCGGGATCGACCGGAGCAGAGACTGGCGAGC
AAGACCCGGGAAAAGGAGAAGATGAAGGAAGCCAAGGATGCCCGCTATACCAATGGGCAC
CTCTTACCACCAATTTAGTTTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATC
ACAGCCAAGGAAGCCCTCATCTGCCAACCTGCAATGTGACTATCCACAACCGCTGTAAA
GACACCCTCGCCAAGTACCAAGGTCAAGCAGAAGCAACAGAAAAGCGGCCCTGTGAAG
AACAAACACCGCCTTGCAGTCCGTTTCTTTCGAAGTAAGACAACCATCCGGGAGCGGCCA
AGCTCGGCCATCTACCCCTCCGACAGCTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGC
CGCTCCTCCTTGTCTTTAGCCAAGAGTGTTCACCAACATTGCTGGACATTTCAAT
GATGAGTCTCCCTGGGGCTGCGCCGGATCCTCTCACAGTCCACAGACTCCCTCAACATG
CGGAACCGAACCTATCCGTGGAATCCCTCATTGACGAAGAGGTAATCTACAGTGAGCTG
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TGCGTGGACGAGCTCAGTGACATCCATACACGCTTCTCAGCCAGCTATTAGAACGCCGA
CGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACCTTGTATCCATCGCTTGGGTGATCTG
CTCATCAGCCAGTCTCAGGTCCTAGTGCGGAGCAGATGTGAAGACCTACTCGGAGTTC
TGCAGCCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCCGAGACAAACGC
TTCCAGCAATTCATCCGGAAGTGACCCGCCCGCCGTGCTCAAGCGGCACGGGGTACAG
GAGTGCATCCTGCTGGTACTCAGCGCATACCAAGTACCCGTTACTCATCAGCCGCATC
CTGCAGCATTCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGCACTGGGGCTA
GTGAAGGAGTGTGTTCAATGTGGACGAGGGTATTTATCAGTGGAGAAAGGGGCCGT
CTGCAGGAGATCTACAACCGCATGGACCCTCGGGCCAAACCCAGTGCCTGGCAAGGGC
CCCTTTGGCCGAGAGGAACCTTGTAGGGCGAAACTCATCCAGATGGCTGCCTGCTCTGG
AAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGTGCTGCTGATGACAGATGACTGGTG

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TTTCTCCAGGAAAAGGACCAGAAGTACATCTTTCTACCCTGGACAAGCCTTCAGTGGTA
TCGCTGCAGAATCTAATCGTACGAGACATTGCCAACAGGAGAAAAGGGATGTTTCTGATC
AGCGCAGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACC
TGGATCCGGGTCAATTCAGCAGAGCGTGCACATGCCATCCAGGGAGGACTTCCCCTG
ATTGAGACAGAGGATGAGGCTTACCTGCGGCGAATTAAGATGGAGTTGCAGCAGAAGGAC
CGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTGCGGCTGTTTGTGAGATGACCCATTTT
CAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCACCCTGCCAGGGGCTTTTC
CGCTCTGAGTCCCTTGAGTCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAG
GTGGAGGGTCTGAAAGACCTGCTGGTGGGGCCAGGAGTGGAAGTCTTGTGACACCCGA
GAGCCAGCCCTGCCCTTGAACACAGACAGCGGTGGTAACACGAGTCTGGGGTCACTGCC
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TTGGTCAATCTCTATGGACTTCTACATGGCCTACAGGCAGCTGTGGCCAGCAGGACT
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TCTCGGATGGGGAGGCTGGCAGGGCTGGGGCTGCCCTGTGGCCCTGAAAAGCAGGCC
ACGGAAGTGGCATTACTGCAGCGCAACATGCGCTGCTGCAGGAGGAGCTACGGCCTGC
CGCGGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAG
AGTGAGCAGGCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCC
GCCCTGGGCCAGACCGAGCCACTCCCAGCTGAGGCCCCCTGGGCCCGCAGACCTGTGGAT
CCTCGGCGGCGCAGCCTCCCCGAGGGATGCCCTGTACTTGAGTTTCAACCCCCACAG
CCCAGCCGAGGCACTGACCGCTGGATCTACCTGTCACTACTCGTCTGTCCATCGAAAC
TTTGAGGACCGAGAGAGGAGGAGGAACTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGT
GACCCTGACACTGGCAGCGAGGAGGAAGGTAGCAGCCGTCTGTCTCCGCCCCACAGTCCA
CGAGACTTTACCAGAATGCAGGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCT
GTAGCCTCCGAGAGC

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- Restriction Sites:** Please inquire
- ACCN:** NM_001162384
- 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_001162384.1](#), [NP_001155856.1](#)
- RefSeq Size:** 4191 bp

RefSeq ORF:	2958 bp
Locus ID:	9181
UniProt ID:	Q92974
Cytogenetics:	1q22
Protein Families:	Druggable Genome
Protein Pathways:	Pathogenic Escherichia coli infection
Gene Summary:	<p>Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: Tshi variant (2) has an alternate splice site in the CDS, as compared to variant 1. The resulting isoform (2) lacks an internal amino acid, as compared to isoform 1.</p>