

Product datasheet for **SC327688**

GEF H1 (ARHGEF2) (NM_001162383) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GEF H1 (ARHGEF2) (NM_001162383) Human Untagged Clone
Tag: Tag Free
Symbol: GEF H1
Synonyms: GEF; GEF-H1; GEFH1; Lfc; LFP40; NEDMHM; P40
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001162383 edited
GAGACCAACGCGTGCGGGCCGAACCCCTCCCCCGCCTTCCCCAACAATACAGGACGCC
GGGTCCGCGCCGCTCCTCCCTGGTCCCCCGTCCGATTATGTCTCGGATCGAATCCCT
CACGCGGGCGCGGATCGACCGGAGCAGAGAGCTGGCGAGCAAGACCCGGGAAAAGGAGAA
GATGAAGGAAGCCAAGGATGCCCGCTATACCAATGGGCACCTCTTACCACCATTTCAGT
TTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATCACAGCCAAGGAAGCCCTCAT
CTGCCAACCTGCAATGTGACTATCCACAACCGCTGTAAGACACCCTCGCCAACGTAC
CAAGGTCAAGCAGAAGCAACAGAAAGCGGCCCTGCTGAAGAACAACACCGCCTTGCAGTC
CGTTTCTCTTGAAGTAAGACAACCATCCGGGAGCGGCAAGCTCGGCCATCTACCCTC
CGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTCCTCTGTCTTTAGC
CAAGAGTGTCTTACCACCAACATTGCTGGACATTTCAATGATGAGTCTCCCTGGGGCT
GCGCCGATCCTCTCACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCTATCCGT
GGAATCCCTCATTGACGAAGCAGAGTAATCTACAGTGAGCTGATGAGTGACTTTGAGAT
GGATGAGAAGGACTTTGCAGTGACTCTTGGAGTCTTGCTGTGGACAGCAGCTTCCCTGCA
GCAGCATAAAAAGGAGGTGATGAAGCAGCAAGATGTCATCTATGAGCTAATCCAGACAGA
GCTGCACCATGTGAGGACACTGAAGATCATGACCCGCCTTCCGCACGGGGATGCTGGA
AGAGCTACACTTGGAGCCAGGAGTGGTCCAGGGCCTGTTCCCCTGCGTGGACGAGCTCAG
TGACATCCATACACGCTTCCCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCC
TGGCAGCACCCGGAACCTTGTGATCCATCGCTTGGTGATCTGCTCATCAGCCAGTTCTC
AGGTCTTAGTGCCGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAGCCGCCACAGCAA
GGCCTTAAAGCTCTATAAGGAGCTGTACGCCCGAGACAAACGCTTCCAGCAATTCATCCG
GAAAGTGACCCGCCCGCCGTGCTCAAGCGGCACGGGGTACAGGAGTGATCCTGCTGGT
GACTCAGCGCATCACCAAGTACCCGTTACTCATCAGCCGATCCTGCAGCATTCCACGG
GATCGAGGAGGAGCGCCAGGACCTGACCACAGCACTGGGGCTAGTGAAGGAGCTGCTGTC
CAATGTGGACGAGGGTATTTATCAGCTGGAGAAAGGGCCCGTCTGCAGGAGATCTACAA
CCGCATGGACCTCGGGCCAAACCCAGTGCCTGGCAAGGGCCCTTTGGCCGAGAGGA
ACTTCTGAGGCGCAAACCTCATCCAGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCG



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CTTCAAAGATGTGCTAGTGTGCTGATGACAGATGTAAGTGGTGTCTCCAGGAAAAGGA
 CCAGAAGTACATCTTTCCTACCCCTGGACAAGCCTTCAGTGGTATCGCTGCAGAATCTAAT
 CGTACGAGACATTGCCAACAGGAGAAAAGGGATGTTTCTGATCAGCGCAGCCCCACCTGA
 GATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCAATCA
 GCAGAGCGTGCACACATGCCATCCAGGGAGGACTTCCCCTGATTGAGACAGAGGATGA
 GGCTTACCTGCGGCAATTAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCT
 GCTGCGAGAGAAGTTCGGGCTGTTTGTCTGAGATGACCAATTTCCAGGCCGAAGAGGATGG
 TGGCAGTGGGATGGCCCTGCCACCCCTGCCAGGGGCCTTTCCGCTCTGAGTCCCTTGA
 GTCCCCTCGTGGCGAGCGGCTGTGTCAGGATGCCATCCGTGAGGTGGAGGGTCTGAAAGA
 CCTGCTGGTGGGGCCAGGAGTGGAACTGCTCTTGACACCCCGAGAGCCAGCCCTGCCCTT
 GGAACCAGACAGCGGTGGTAACACGAGTCTGGGGTCACTGCCAATGGTGGAGCCAGAAC
 CTTCAATGGTCCATTGAACTCTGCAGAGCTGACTCAGACTCTAGCCAGAGGGATCGAAA
 TGGAAATCAGTGTGATCACCAGCAAGAGGAGGCGTTACAGCGATTGGTCAATCTCTATGG
 ACTTCTACATGGCTACAGGCAGCTGTGGCCAGCAGGACTCTGATGGAAGCCCGGTT
 CCCTGAGGGCCCTGAGCGCGGGAGAAGCTGTGCCGAGCCAATCTCGGGATGGGGAGGC
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 GCAGCGGCAACATGCGCTGTGTCAGGAGGAGCTACGGCGCTGCCGGCGGCTAGGTGAAGA
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 ACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCTGGGCCAGACCGA
 GCCACTCCCAGCTGAGGCCCCCTGGGCCCGCAGACCTGTGGATCCTCGGGCGGCAGCCT
 CCCCAGGCGATGCCCTGTACTTGAGTTTCAACCCCAACAGCCAGCCGAGGCACTGA
 CGCCTGGATCTACCTGTCACTACTCGCTGTCCATCGAACTTTGAGGACCGAGAGAG
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 AGGGGGCCCTCCCCCTGCCCGTGCCCACTGAAGAACATTACTGAGGGGGCTAACCT
 TGGGGACTCCAATTTGCCAATGATGAGGGAACATTTGAAAGAAGTCAAATTTGCTCTTGC
 CAGCTCTGGGATCCTTGGATACCTGGGGCCATTTAAGAAGCTAGGGGAATTAGGCCACA
 ACACCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTCATGCCTTCTTCCC
 GCAACTTTAGGAAAATTTATTTATTTATTTATTTATTTAGTTATGGGGGAGAGGGGAGATT
 TAAAGGACCAGGGACATGGGAACCAAGCCATAGGGATCAGAGGGCCTTGTCTTGAACAC
 TACTGGGTATATTCAGGCTCATCCACGCAGCTGCTGGGTCTTGCCTAACGGCCCTCC
 CCTGCAACATCCGTCTTGGAGGAGAGGCTGCAGCCACAGCACCCCTACTGCCCTTAAATA
 AAGGAGGGCTGTGGGAGGGCCATGTCCCTTCTCCTCTCCCCTCAACCTCTTACTGCTG
 TTCTCCCTTCTCCGTCTTCAATGGAAGCCCTGGGAGATAACCTGGCTTCTTGGAGTTGA
 TGGAAATAAGGTTGGGGTGGCCATAATGGTTTGTGGGGGTGAGGGAAAAACCCACAGG
 GACCAGAATGTTTTGTTGTTCTTTGTTTTCTTTTTGTACCAAAGTCAACTGCACGTGT
 TTTTATTTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTATCTCCACATCTC
 TGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTCATCTGCAGTAACGGGGGG
 ACCTATACTGACCTTCTCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTTGAAAAATC
 TCCAAGAGCCCTGACCTCATCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAA
 TTTGGGGATTTTTAGTGAACCTTGGCCCAATGTGACCAAGCCCAATGTGCGA
 AGAATTTCTTCTGCAATTTTGTGTTTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001162383
Insert Size: 4100 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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_001162383.1 , NP_001155855.1
RefSeq Size:	4194 bp
RefSeq ORF:	2961 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: This variant (1) encodes the longest isoform (1).</p>