

Product datasheet for **SC337428**

HA1 (ARHGAP45) (NM_001282334) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HA1 (ARHGAP45) (NM_001282334) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP45
Synonyms:	HA-1; HLA-HA1; HMHA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001282334, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGTGGGGAGGAAAGGAGGAGCTGGGGAGACTGAGTCCCATCCGAGGATAGGGTTGGAAGTGGCCT
CCTGGCTCCCACACCCACAGCAAGAGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCG
CTGCGAGGACCACGACAAGGCTCGCTTCTCGTGGCCAAGGCGGAGGAGCAGGCTGGCAGCGCGCCG
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TACCAAGGTGACGGCGCTGCGGCAGATCCAGGAGTTCATCCGGCAGAGCGACCAAACCATCAAGTCGGCC
ACGATCTCCTACTACCAGATGATGCATATGCAGACGGCGCGCTGCCCGTGCCTTCCAGATGCTGTGTG
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GCCCGATGTGCACTACGACTTTGAGCCCCAGTCTCCGCCAACGCCTGGTCCCCCGTCATGCGTGGCCGG
AAGAGCAGCTTCAACGTGAGTGTGTGGCGCGGCCGAGGCTGCCGGGAGCCCCCAGAAGAAGGGGGGT
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CCTTTGAGCAGGCTGACCTCAACGGCATGACCCCGAGCTGCCGGTGGCCGTGCCAGTGGACCGTTCCG
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GAGTGAACAGCTACGTCTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTGCCCTGCCACAAGAAAT
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GGTCTTCGAGGAGGAGCCGGAGGAGACCCCGGGGCCAGGACGAGTCATCAACACGAGCTGAGGTA
GTCGTCCAGGTGCCGTACCTGGAGGCGGGCAGGCGGTGGTCTACCCGCTGCAGGAGGCGGCGGCGGACG
GGTGCAGAGAATCCCGAGTTGTGTCCAACGATTGGACTCGGACCTAGAGGAGGCCCTCCGAGCTGCTGTC
CTCATCGGAGGCCAGTGCCTGGGCCACCTCAGCTTCTGGAGCAGCAGCAGAGCGAGGCCAGCCTAGAG
GTGGCTTCTGGCAGCCACAGCGGAGTGGAGGACGCTGGAGGCCACAGCCCGGGAGGACGGGGACGGGG
ACGAGGACGGCCCGCCAGCAGCTCTCAGGATTAACACCAACCAAGTCCAAACAAGTGTGCAGGCCCC
ACTGCCCCCATGAGGCTCCGTGGCGGGCGGATGACACTGGGCTCCTGCAGGAAAGGCAGCCGGAATTC
GTGTGA
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001282334

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_001282334.1](#), [NP_001269263.1](#)

RefSeq Size: 5286 bp

RefSeq ORF: 2316 bp

Locus ID: 23526

UniProt ID: [Q92619](#)

Cytogenetics: 19p13.3

Gene Summary: Contains a GTPase activator for the Rho-type GTPases (RhoGAP) domain that would be able to negatively regulate the actin cytoskeleton as well as cell spreading. However, also contains N-terminally a BAR-domain which is able to play an autoinhibitory effect on this RhoGAP activity.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) uses an alternate internal promoter and thus differs in the 5' UTR and 5' coding region compared to variant 1. These differences cause translation initiation at an alternate AUG, and the resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1. 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.