

Product datasheet for RC239887

HA1 (ARHGAP45) (NM_001282335) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HA1 (ARHGAP45) (NM_001282335) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ARHGAP45
Synonyms: HA-1; HLA-HA1; HMHA1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC239887 representing NM_001282335
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGTGTATCTGCGGGACGGCGCACCCGGTGCTGGACGAGGGCCCCGTGCGCTGCCGGGCGGGCCCCGAG
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TGGACCCCGCCCTGGCGCAGGGGACTTTAAGAAGTTCGAGCGGACGTCATCCAGTGGTACCATGTCGTC
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Protein Sequence:

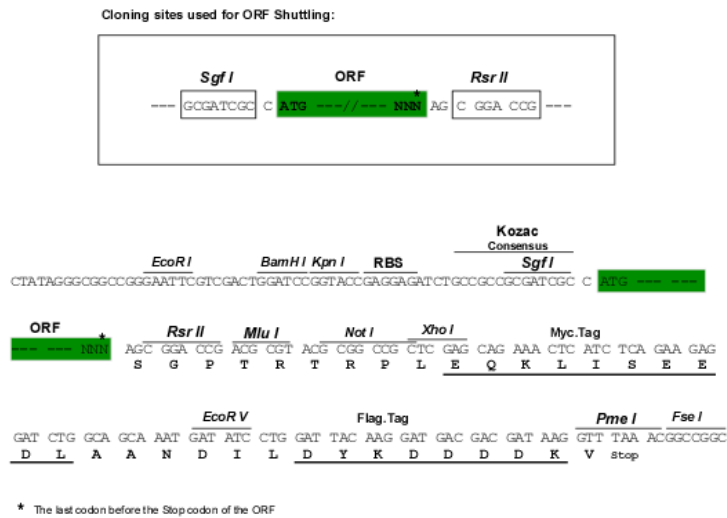
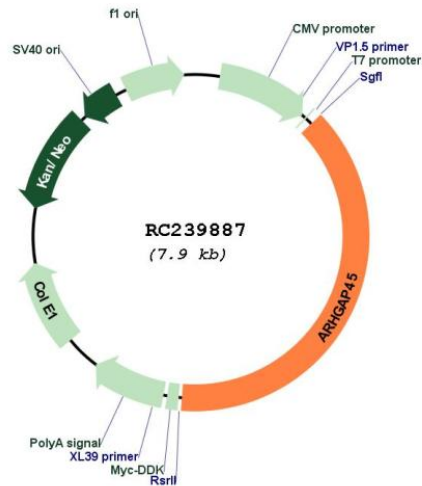
>RC239887 representing NM_001282335
Red=Cloning site Green=Tags(s)

MCICTGAHPVLDGEPVRCRAGPRDLLEARRPRAHECLGEALRVMHQIISKYPLLNTVETLTAAGTLIAKV
KAFHYESNNDLEKQEFKALETIAVAFSSTVSEFLMGEVDSSTLLAVPPGDSSQSMEISLYGPGSEGTTPPS
LED CDAGCLPAEEVDVLLQRCEGGVDAALLYAKNMAKYMKDLISYLEKRTTLEMEFAKGLQKIAHNCRQS
VMQEPHMLLSIYSLALEQDLEFGHSMVQAVGTLQTQTFMQPLTLRRLHEKRRKEIKEAWHRAQRKLQE
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MTELPVAVPSGPFRRHEGLSKAARTHRLRKLTPAKCRECNSYVYFQGAEECECLACHKKCLETLAIQC
GHKKLQGRQLQFGQDFSHAARSAPDGVPIVKKCVCEIERRALRTKGIYRVNGVKTRVEKLCQAFENGKE
LVELSQASPHDISNVLKL YLRQLPEPLISFRLYHEL VGLAKDSLKAEAEAKAASRGRQDGESEAVAVAL
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HQARVIETLIVHYGLVFEEPEETPGGQDESSNQRAEVVVQVPYLEAGEAVVYPLQEAADGCRESRVVS
NDSDSL EEA SELLSSSEASALGHL SFLEQQQSEASLEVASGSHSGSEEQLEATAREDDGDEGPAQQL
SGFNTNQSNVQLAPLPPMRLRGGMTL GSCRERQPEFV

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_001282335

ORF Size: 3057 bp

OTI Disclaimer: 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](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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_001282335.2
RefSeq Size:	4965 bp
RefSeq ORF:	3060 bp
Locus ID:	23526
UniProt ID:	Q92619
Cytogenetics:	19p13.3
MW:	112.9 kDa
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]