

Product datasheet for **RG201782**

AHA1 (AHSA1) (NM_012111) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AHA1 (AHSA1) (NM_012111) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AHA1
Synonyms: AHA1; C14orf3; hAha1; p38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201782 representing NM_012111
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAAGTGGGGTGAGGGAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACA
 ACTGGCACTGGACGGAGAGAGATGCTTCAAATTTGGTCCACGGATAAGCTGAAAACACTGTTCTGGCAGT
 GCAGGTTCAAAAATGAAGAAGGCAAGTGTGAGGTGACGGAAGTGAAGCTTGATGGAGAGGCATCCATT
 AACAAATCGCAAAGGAACTTATCTTCTTTATGAATGGAGCGTCAAACAACTGGACAGGTACTTCTA
 AGTCAGGAGTACAATACAAGGACATGTGGAGATCCCAATTTGTCTGATGAAAACAGCGTGGATGAAGT
 GGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATCTCGTGGCCTTAATGAAGGAAGAAGGG
 GTGAAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCCTCAAACAGAGTTACCCAGGGCATGA
 TCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGAAAACAGGAGCGCAA
 GGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAAATCCCACTTGTAAAGTCACT
 CTTAAGGAAACCTTCTGACGTCACCAGAGGAGCTCTATAGAGTGTACCACCCAAGAGCTGGTGCAGG
 CCTTTACCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGAAAGTCCACATGGTAGATGGCAACGT
 CTCTGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTAAATCTTGGCCA
 GAGGGACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTCATGGAAG
 GTCGAGGCATCCCTGCTCCTGAGGAAGAGCGGACGCGACAGGGCTGGCAGCGGTACTACTTTGAGGCAT
 TAAACAGACCTTTGGCTATGGCGCACGCTTATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201782 representing NM_012111
Red=Cloning site Green=Tags(s)

MAKWGEGDPRWI VEERADATNVN NWHWTERDASNWSTDKL KTLFLAVQVQNEEGKCEVTEVSKLDGEASI
 NNRK GKLIFFYEW SVKLNWTGTSKSGVQYKGHVEIPNLSDENSVD EVEISVSLAKDEPDTNLVALMKEEG
 VKLLREAMGIYISTLKTEFTQGMILPTMNGESVDPVGPALKTEERKAKPAPSKTQARPVGVKIPTCKIT
 LKETFLT SPEEL YRVFTTQELVQAFTHAPATLEADRGGKFHMVDGNVSGEFTDLVPEKHI VMKWRFKSWP
 EGHFATITLTFIDKNGE TELCMEGRGIPAPEEERTRQGWQRY YFEGIKQTFGYGARLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012111

ORF Size: 1014 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:

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: [NM_012111.3](#)

RefSeq Size: 1375 bp

RefSeq ORF: 1017 bp

Locus ID: 10598

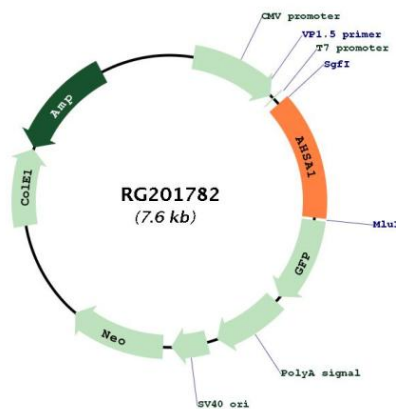
UniProt ID: [O95433](#)

Cytogenetics: 14q24.3

Domains: DUF704

Gene Summary: Acts as a co-chaperone of HSP90AA1 (PubMed:29127155). Activates the ATPase activity of HSP90AA1 leading to increase in its chaperone activity (PubMed:29127155). Competes with the inhibitory co-chaperone FNIP1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (PubMed:27353360). Competes with the inhibitory co-chaperone TSC1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (PubMed:29127155). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201782