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Product datasheet for SC115514

AHA1 (AHSA1) (NM_012111) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHA1 (AHSA1) (NM_012111) Human Untagged Clone
Tag:	Tag Free
Symbol:	AHA1
Synonyms:	AHA1; C14orf3; hAha1; p38
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115514 sequence for NM_012111 edited (data generated by NextGen Sequencing)

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ATGGCCAAGTGGGGTGAGGGAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACC
AACGTCAACAACTGGCACTGGACGGAGAGAGATGCTTCAAATTGGTCCACGGATAAGCTG
AAAACACTGTTCCTGGCAGTGCAGGTTCAAAATGAAGAAGGCAAGTGTGAGGTGACGGAA
GTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAAACTTATCTTCTTT
TATGAATGGAGCGTCAAACTAAACTGGACAGGTACTTCTAAGTCAGGAGTACAATACAAA
GGACATGTGGAGATCCCCAATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGT
GTGAGCCTTGCCAAAGATGAGCCTGACACAAATCTCGTGGCCTTAATGAAGGAAGAAGGG
GTGAAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCTCAAAACAGAGTTCACC
CAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCA
CTGAAAACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTT
GGAGTCAAAATCCCCACTTGTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAG
GAGCTCTATAGAGTGTTTACCACCCAAGAGCTGGTGCAGGCCTTTACCCATGCTCCTGCA
ACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACGTCTCTGGGGAA
TTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCA
GAGGGACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTG
TGCATGGAAGGTCGAGGCATCCCTGCTCCTGAGGAAGAGCGGACGCGACAGGGCTGGCAG
CGGTACTACTTTGAGGGCATTAAACAGACCTTTGGCTATGGCGCACGCTTATTTTAG

Clone variation with respect to NM_012111.2
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012111 unedited
NTGTCACCATTTGAATCCGACTCCTATAGGCGGCCGCGCAATTCGCACGAGGGCTACGGC
TGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGGGAGAC
CCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACTGGCACTGGACG
GAGAGAGATGCTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCCTGGCAGTGCAG
GTTCAAAATGAAGAAGGCAAGTGTGAGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCA
TCCATTAACAATCGCAAAGGGAAACTTATCTTCTTTTATGAATGGAGCGTCAAACTAAAC
TGGACAGGTACTTCTAAGTCAGGAGTACAATACAAAGGACATGTGGAGATCCCCAATTTG
TCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCT
GACACAAATCTCGTGGCCTTAATGAAGGAAGAAGGGGTGAAACTTCTAAGAGAAGCAATG
GGAATTTACATCAGCACCCTCAAAACAGAGTTCACCCAGGGCATGATCTTACCTACAATG
AATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGAAAACTGAGGAGCGCAAGGCT
AAGCCTGCTCCTTCAAAAACCCCAGCCAGACCTGTTGGAGTCAAAATCCCCACTTGTAAG
ATCACTCTTAAGGAAACCCTCCCTGACGTCACCAGAAGGAGCTCTATACAGTGTTTACCA
CCCCAAGAGCTTTTGCCAGGCCTTTACCCATGCTTCTGCAACATTAGAAGCAGACAGAGG
TGGAAAGTTCACATGGTAGAGGCAACCGCCCTGGGGATTTACTGACCTGTCCTTGAAAAC
ATATTGGGATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012111 unedited
TGGACCGCGNGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAAATTATGTTTAT
TTAGCATATGTACACATAAAAGAGAAATTGCCCTCTGAACCCACCCAGCAGAAAACATGC
ACAAACCCAAGGTATATGTGGAAGGGAGGGGCCCCGGCCCCAAGTTAGCAGCTGGGACGA
TGCAATCCTGTGAGTCGCAAGCCCCAGTCAGGAGAGAGCTGGACTGAAGTGTCCAGCAGG
CTGGAGTCCCCTGCCGCTGGCCCTAAAATAAGCGTGCGCCATAGCCAAAGGTCTGTTTAA
TGCCCTCAAAGTAGTACCGCTGCCAGCCCTGTCGCGTCCGCTCTTCCTCAGGAGCAGGGA
TGCCTCGACCTTCCATGCACAGCTCAGTCTCTCCGTTCTTGTCGATGAAGGTCAAGGTGA
TGGTGGCAAAGTGTCCCTCTGGCCAAGATTTAAACCTCCACTTCATCACAATATGTTTCT
CAGGGACCAGATCAGTAAATTCCCCAGAGACGTTGCCATCTACCATGTGGAACTTTCCAC
CTCTGTCTGCTTCTAATGTTGCAGGAGCATGGGTAAAGGCCTGCACCAGCTCTTGGGTGG
TAAACACTCTATAGAGCTCCTCTGGTGACGTCAGGAAGGTTTCCTTAAGAGTGATCTTAC
AAGTGGGGATTTTGACTCCACAGGTCTGGCCTGGNGTTTTGAANGAGCAGGCTTANCCTT
GCGCTCCTCAGTTTTCAGTGCTGGCTGCCCCACTGGGTCTACTGACTCTCCATTCATTGT
ANGTAAGATCATGCCCTGNGTGAACTCTGTTTTGAGGTGCTGATGTAAATTCCCATTGCT
TCTCTAGAAGTTCCACCCCTCCTTCTTCATTAGGNCACGAGATTGTGTCAGGCTCATCTT
TGGCAGGCTCACACTATCTCCCTTCATC

Restriction Sites: NotI-NotI

ACCN: NM_012111

Insert Size: 1300 bp

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).

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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_012111.1, NP_036243.1
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]

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