

Product datasheet for **SC114030**

AHI1 (NM_017651) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHI1 (NM_017651) Human Untagged Clone
Tag:	Tag Free
Symbol:	AHI1
Synonyms:	AHI-1; dj71N10.1; JBTS3; ORF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017651, the custom clone sequence may differ by one or more nucleotides

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ATGCCTACAGCTGAGAGTGAAGCAAAAGTAAAAACCAAAGTTCGCTTTGAAGAATTGCTTAAAGCCACACA  
GTGATCTAATGCGTGAAAAGAAAAAACTGAAGAAAAAACTTGTCAGGTCTGAAGAAAACATCTCACCTGA  
CACTATTAGAAGCAATCTTCACTATATGAAAGAACTACAAGTATGATGATCCCGACACTATTAGAAGCAAT  
CTTCCCCATATTAAGAAACTACAAGTATGATGTAAGTGTCTAACACTAACAACTGAAGAAGAGCA  
CGAGAGTCACTAAAAACAAATTGAGGAACACACAGTTAGCAACTGAAAAATCCTAATGGTGTGCTAGTGT  
AGAGGAAGACAAACAAGGAAAGCCAAATAAAAAGGTGATAAAGACGGTGCCCGAGTTGACTACACAAGAC  
CTGAAACCGGAACTCCTGAGAATAAGGTTGATTCTACACACCAGAAAACACATACAAAGCCACAGCCAG  
CGGTTGATCATCAGAAAAGTGAGAAGGCAAATGAGGGAAGAGAAGAGACTGATTTAGAAGAGGATGAAGA  
ATTGATGCAAGCATATCAGTGCCATGTAAGTGAAGAAATGGCAAAGGAGATTAAGAGGAAAAATAAGAAAG  
AACTGAAAGAACAGTTGACTTACTTTCCCTCAGATACTTTATTCATGATGACAAAATAAGCAGTGAAA  
AAAGGAAAAAGAAAAAGGAAGTCCAGTCTTCTTAAAGTGAACAAGTACATTGACCATCTCTGGTGA  
CACAGTTGAAGGTGAACAAAAGAAAGAATCTTCAGTTAGATCAGTTTCTCAGATTCTCATCAAGATGAT  
GAAATAAGCTCAATGGAACAAAGCACAGAAGACAGCATGCAAGATGATACAAAACCTAAACCAAAAAA  
CAAAAAAGAAGACTAAAGCAGTTGCAGATAATAATGAAGATGTTGATGGTGTGTTTACATTAC  
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CGAACTGATAGACTTAAGTCAGATTTTATGATTTCTCACCCAATGGTAAAAATTCATGTGGTTGATGAGC  
ATACTGGTCAATATGTCAGAAAGATGATAGTGGACGGCCTGTTTCATCTTACTATGAAAAAGAGAAATG  
GGATTATATTCTTCTTATGACCCAGCCATATGATTTTAAACAGTTAAATCAAGACTCCAGAGTGG  
GAAGAACAATTTGATTTAATGAAAATTTCCCTATTTGCTTCGAGGCTCTGATGAGAGTCTAAAGTCA  
TCCTGTTCTTTGAGATTCTTGATTTCTTAAAGCGTGGATGAAATTAAGAATAATTCTGAGTTTCAAAACCA  
AGAATGTGGCTTCGAAAAATGCTGGGCATTTCTTAAGCTTCTGGGAGCCAATGGAATGCAACATC  
AACTCAAACTTCGCTTGCAGCTATATTACCCACCTACTAAGCCTCGATCCCATTAAGTGTGTTGAGG  
CATTTGAATGGTGTCAAATGTCCAAGAAATCATTACCCATCAACACTGTACGTAAGTAACTGTAAGAGGACT
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GAAAGTTCAGACTGTATAAGCCATCTTACCGCTCTATGATGGCTCTTCAGGAGGAAAAAGGTAACCA
 GTGCATTGTGAACGTCACCATGAGTCAAGCTCAGTAGACACAGAACCTGGATTAGAAGAGTCAAAGGAAG
 TAATAAAGTGAAACGACTCCCTGGCAGGCTTGCCGTATCCCAAACAAACACCTCTTCTCACTAAATGC
 AGGAGAACGAGGATGTTTTGTCTTGATTTCTCCACAATGGAAGAATATTAGCAGCAGCTTGCCAGC
 CGGGATGGATATCCAATTATTTATATGAAATTCCTTCTGGACGTTTCATGAGAGAATTGTGGCCACC
 TCAATATCATTTATGATCTTCTGGTCAAAAGATGATCACTACATCCTTACTTCATCATCTGATGGCAG
 TGCCAGGATATGGAAAAATGAAATAACAATACAATACTTTTCAGAGTTTTACCTCATCCTTCTTTGTT
 TACACGGCTAAATTCATCCAGCTGTAAGAGAGCTAGTAGTTACAGGATGCTATGATTCCATGATACGGA
 TATGAAAAGTTGAGATGAGAGAAGATTCTGCCATATTGGTCCGACAGTTTGATGTTCCAAAAAGTTTAT
 CAACTCACTTTGTTTGTACTGAAGGTCATCATATGTATTACAGGAGATTGTACAGGGGTGATTGTTGTT
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 AAGAACTGAGTTAAGGGAATCCAATAAGTTATTTGGAGATTCATCCAATGGAAAACGTTTGTAAAT
 CCATACCAAAGACAGTACTTTGAGAATTATGGATCTCCGGATATTAGTAGCAAGGAAGTTGTAGGAGCA
 GCAAATTATCGGAGAAGATTCATAGTACTTTGACTCCATGTGGGACTTTTCTGTTTGTGGAAGTGAGG
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 GTCACCCATTGAGACATTTCTTATCATCCATTTGAAAAATATGGTTGCATTCTGTGCATTTGGGCAAAAT
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 ATGGAACATTTCCATTACCTGGAATACACCAAAGTCAAGATGCCCTATGTACCTGTCCAAAACCTACCCA
 TCAAGGCTCTTTTTCAGATTGATGAATTTGTCCACACTGAAAGTCTTCAACGAAGATGCAGCTAGTAAAA
 CAGAGGCTTGAACCTGTCACAGAGGTGATACGTTCTGTGCTGCAAAAAGTCAACAAAAATCTCTCATTTA
 CTTACCACCAGCAGTTTCTCACAACAGTCTAAGTTAAAGCAGTCAAACATGCTGACCGCTCAAGAGAT
 TCTACATCAGTTTGGTTTCACTCAGACCGGATTATCAGCATAGAAAGAAAGCCTTGTAAACATCAGGTA
 GATACAGCACCAACGGTAGTGGCTTTTATGACTACACAGCGAATCGATCAGATGAACTAACCCATC
 CGGAGACATTAATCCGAGTGTTTTTCAAAGATAATGAAGACTGGTGGTATGGCAGCATAGGAAAGGGACA
 GGAAGGTTATTTTCCAGCTAATCATGTGGCTAGTGAACACTGTATCAAGAACTGCCTCCTGAGATAAAG
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 CAATCAATAAGAACAAGTCCCAGGACTTCAGACTAGGCTCAGAATCTATGACACATTCTGAAATGAGAAA
 AGAACAGAGCCATGAGGACCAAGGACACATAATGGATACCGGATGAGGAAGAACAAGCAAGCAGGCAGA
 AAAGTCACTCTAATAGAGTAA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_017651 unedited
 AAGCTCGNNGATTTGTNAATACGNACTTTCTGATAGGGNCCGGCCGCGCAATTCGGCAGC
 AGCGGGACGGGCGGTTCTGCGTACCCCTCTCCGATCCTGATTGAGTCAATGCTTTGCATT
 CTCAGTCTCTGCATAAAGCTGAGAGATGCCTACAGCTGAGAGTGAAGCAAAAGTAAAA
 CCAAAGTTCGCTTTGAAGAATTGCTTAAGACCCACAGTATCTATTGTTTGAAGAAGAAA
 AACTGAAGAAAAAATTTGTCAGGCTGGAAGAAAACATCTCACCTGACACTATTAGAAGCA
 ATCTTCACTATATGAAAGAACTACAAGTATGATCCTCCGACACTATTAGAAGCAATCTTC
 CCCATATTAAGAAACTACAAGTATGATGTAAGTGTGCTAACACTAACACCTGAAGA
 AGAGCACGAGAGTCACTAAAAACAAATTGAGGAACACACAGTTAGCAACTGAAAAATCCTA
 ATGGTGTAGTGTAGAGGAAGACAAACAAGGAAAGCCAAATAAAAAGGTGATAAAGA
 CGGTGCCCCAGTTGACTACACAAGACCTGAAACCGGAACTCCTGAGAATAAGGTTGATT
 CTACACACCAGAAAAACATACAAGCCACAGCCAGGCGTTGATCATCAGANAAGTGAGA
 AGGCAATGAGGGAAGAGAAGAGACTGATTTAGAAGAGGATGAAGAATTGATGCAAGCAT
 ATCAGTGCCATGTAAGTGAAGAAATGGCAAAGGAGATTAAGAGGAANNATAGANAGAAC
 TGANAGAACAGTTGACTTACTTNTCCTCAGATACTTTATTCATGATNNGACAACCTAGCA
 GTGANAAAAAGGGAAAAAGANAAGGAGTTNCCAGTCTCTCTAAAGCTGAAACAGTACA
 TTGACCATCTCTGGTGACACAGNTGAAGGTGA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017651 unedited NNAAATTTACTGTGNNACCGCGGCCGCTTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCAGAAAAACAGGAATTTTTATTTTTAAATTATCAAGTGCATTCACAAGA CAGAAAAAAACAAGCTTGTACAAGAGTGACTCAAGCTGGCTGGGCCAGCTGTACCTGAC ACACAGACTTATACATCCAGAACAATGAAAACCTCAGTGCCATCAGAACAGACTTTTGGGC GGATGGCTGTAGGCTTCACCAGTTATCAGTGCCACTCAACACTTTCAAAAATGCCTTTTT TTTAAAGTTCTACACAGCGGGACATGTTACCAATTTTTATGCCTCTACATGTGCAGGGA TAAGAGCCAAATATATTTTTATTAGAAGATATTTACACTGGGTATACATCTGGGCAAAA TTTACACCTCAATGCCAACATTGTTTTCTCACTTCTTATTTAATGGAATTGACTGTC TAATTTGGATAGGTCTTTCTAATTTTATATTAGTTTTCACTTTCTGGGGTTAAATATTT TATCAGCAGACCTTATCACACACTTGAGAAAGGAGTCAAGAAAAGAACAAAAATGAATA TCCATTATAATCAAACCTCAAACATATAGTCTATAATAATGACACTATTATTCTGG AACTTAGAAAAATAAATAATGCAATATAATAATGAAAAATTAAGATTAATAAAT ATTAACAATGTAAGTCTACAAAATAGGTTTGTGCTTAAATATGAAAAGCCTTTTTTAA AAGTAAAGACATTGGGAACATTGGTGCCAGTCCAACCCAAAATACTTTTTATTTTAGTCT ATTGAGATACTTTATGAATTGATCCTTAAAAACACAAATTTTAATTAGAAGTAAATTGGT TTCCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_017651
Insert Size:	5500 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).
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_017651.3 , NP_060121.3
RefSeq Size:	5564 bp
RefSeq ORF:	3591 bp
Locus ID:	54806
UniProt ID:	Q8N157
Cytogenetics:	6q23.3
Domains:	SH3, WD40

Gene Summary:

This gene is apparently required for both cerebellar and cortical development in humans. This gene mutations cause specific forms of Joubert syndrome-related disorders. Joubert syndrome (JS) is a recessively inherited developmental brain disorder with several identified causative chromosomal loci. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

Transcript Variant: This variant (2) differs in the 5', compared to variant 1. Variants 1-3 and 5 all encode the same isoform (a).