

## Product datasheet for **RG226311**

### AHI1 (NM\_001134832) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AHI1 (NM_001134832) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AHI1
Synonyms:	AHI-1; dj71N10.1; JBTS3; ORF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226311 representing NM_001134832 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTACAGCTGAGAGTGAAGCAAAGTAAAAACCAAAGTTCGCTTTGAAGAATTGCTTAAGACCCACA  
GTGATCTAATGCGTGAAGAAAGAAAACTGAAGAAAAACTTGTGACGGTCTGAAGAAACATCTCACCTGA  
CACTATTAGAAGCAATCTTCACTATATGAAAGAACTACAAGTGTGATCCCGACACTATTAGAAGCAAT  
CTTCCCATATTAAGAAACTACAAGTGTGATGTAAGTGTGCTAACACTAACAACTGAAGAAGAGCA  
CGAGAGTCACTAAAAACAAATTGAGGAACACACAGTTAGCAACTGAAAATCCTAATGGTGTGCTAGTGT  
AGAGGAAGACAAACAAGGAAAGCCAAATAAAAAGGTGATAAAGACGGTGCCCGAGTTGACTACACAAGAC  
CTGAAACCGGAAACTCCTGAGAATAAGGTTGATTCTACACACCAGAAAACACATACAAAGCCACAGCCAG  
GCGTTGATCATCAGAAAAGTGAAGGCAAAATGAGGGAAGAGAAGAGACTGATTTAGAAGAGGATGAAGA  
ATTGATGCAAGCATATCAGTGCCATGTAAGTGAAGAAATGGCAAAGGAGATTAAGAGGAAAAAAGAAAAG  
AACTGAAAGAACAGTTGACTTACTTCCCTCAGATACTTTATCCATGATGACAACTAAGCAGTGAAA  
AAAGGAAAAAGAAAAGGAAGTCCAGTCTTCTCTAAAGCTGAAACAAGTACATTGACCATCTCTGGTGA  
CACAGTTGAAGGTGAACAAAAGAAAAGAAATCTTCAGTTAGATCAGTTTCTCAGATTCTCATCAAGATGAT  
GAAATAAGCTCAATGGAACAAAGCACAGAAGACAGCATGCAAGATGATACAAAACCTAAACCAAAAAA  
CAAAAAAGAAAGACTAAAGCAGTTGCAGATAATAATGAAGATGTTGATGGTGTGTTTCATGAAATAAC  
AAGCCGAGATAGCCCGTTTATCCCAAATGTTGCTTGATGATGACCTTGTCTTGGGAGTTTACATTACAC  
CGAACTGATAGACTTAAGTCAGATTTTATGATTTCTCACCAATGGTAAAAATTCATGTGGTTGATGAGC  
ATACTGGTCAATATGTCAAGAAAGATGATAGTGGACGGCTGTTTCATCTTACTATGAAAAAGAGAATGT  
GGATTATATTCTCCTATTATGACCCAGCCATATGATTTTAAACAGTTAAATCAAGACTCCAGAGTGG  
GAAGAACAATTTGATTTAATGAAAATTTCCCTATTTGCTTCGAGGCTCTGATGAGAGTCTAAAGTCA  
TCCTGTTCTTTGAGATTCTGATTTCTTAAGCGTGGATGAAATTAAGAATAATTCTGAGGTTCAAAACCA  
AGAATGTGGCTTCGAAAATTCCTGGGCATTTCTTAAGCTTCTGGGAGCCAATGAAAATGCAAACATC



[View online »](#)

```
AACTCAAACCTTCGCTTGCAGCTATATTACCCACCTACTAAGCCTCGATCCCCATTAAGTGTGTTGAGG
CATTGTAATGGTGGTCAAATGTCCAAGAAATCATTACCCATCAACACTGTACGTAAGGAGGACT
GAAAGTTCAGACTGTATAAGCCATCTTACCGCTCTATGATGGCTCTTCAGGAGGAAAAAGGTAACCA
GTGCATTGTGAACGTACCATGAGTCAAGCTCAGTAGACACAGAACCTGGATTAGAAGAGTCAAAGGAAG
TAATAAAGTGGAAACGACTCCCTGGGCAGGCTTGGCGTATCCCAAACAACACCTCTTCTACTAAATGC
AGGAGAACGAGGATGTTTTGTCTTGATTTCTCCACAATGGAAGAATATTAGCAGCAGCTGTGCCAGC
CGGGATGGATATCCAATTATTTTATATGAAATTCCTTCTGGAGTTTCATGAGAGAATTGTGGCCACC
TCAATATCATTATGATCTTTCCTGGTCAAAGATGATCACTACATCCTTACTTCATCATCTGATGGCAC
TGCCAGGATATGGAAAAATGAAATAAACAATAACAATACTTTCAGAGTTTTACCTCATCCTTCTTTTGT
TACACGGCTAAATTCATCCAGCTGTAAGAGAGCTAGTAGTTACAGGATGCTATGATTCCATGATACGGA
TATGGAAAGTTGAGATGAGAGAAGATTCTGCCATATTGGTCCGACAGTTTGTGTTACAAAAAGTTTAT
CAACTCACTTTGTTTGTACTGAAGGTCATCATATGATTACAGGAGATTGTACAGGGGTGATTGTTGTT
TGGAACTATGTCAAGATTAATGATTGGAACATTCAGTGCACCCTGGACTATAAATAAGGAAATTA
AAGAACTGAGTTAAGGAATCCAATAAGTTATTTGGAGATTCATCCAATGGAAAACGTTTGTAAAT
CCATACCAAAGACAGTACTTTGAGAATTATGGATCTCCGGATATTAGTAGCAAGGAAGTTTGTAGGAGCA
GCAAATATCGGGAGAAGATTCATAGTACTTTGACTCCATGTGGGACTTTTCTGTTTGTGGAAAGTGAGG
ATGGTATAGTGTATGTTTGAACCCAGAAACAGGAGAACAAGTAGCCATGTATTCTGACTTGCCATTCAA
GTCACCCATTCGAGACATTTCTTATCATCCATTTGAAAATATGTTTGCATTCTGTGCATTTGGGCAAAAT
GAGCCAATTTCTGTATATTTACGATTTCCATGTTGCCAGCAGGAGGCTGAAATGTTCAAACGCTACA
ATGGAACATTTCCATTACCTGGAATACACCAAAGTCAAGATGCCCTATGTACCTGTCAAAACACTACCCCA
TCAAGGCTCTTTTTCAGATTGATGAATTTGTCCACACTGAAAGTTCTTCAACGAAGATGCAGCTAGTAAA
CAGAGGCTTGAACGTGCACAGAGGTGATACGTTCCCTGTGCTGCAAAAAGTCAACAAAAATCTCTCATTTA
CTTACCACCAGCAGTTTCTCACAACAGTCTAAGTTAAAGCAGTCAAACATGCTGACCGCTCAAGAGAT
TCTACATCAGTTTGGTTTCACTCAGACCGACAGTCACTTTGCTGAATTCACACATGTATATTATGGTGG
AAAAAGCAC
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG226311 representing NM\_001134832

Red=Cloning site Green=Tags(s)

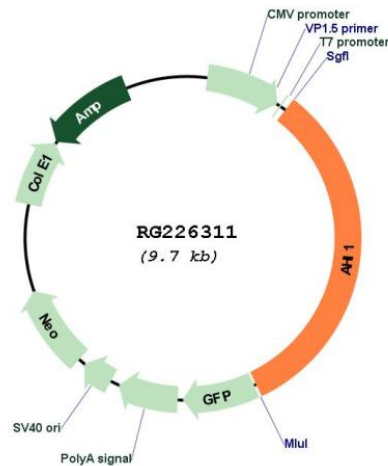
```
MPTAESEAKVKTKVRFELLKTHSDLMREKKLKKLVRSEENISPDITIRSNLHYMKETTSDDPDTIRSN
LPHIKETTSDDVSAANTNLLKSTRVTKNKLRLNTQLATENPNGDASVEEDKQGKPNKKVIKTPQLTTQD
LKPETPENKVDSTHQKTHTKPQPGVDHQKSEKANEGREETDLEEDEELMQAYQCHVTEEMAKEIKRKIRK
KLKEQLTYFPSDTLFHDDKLSEKRKKKKEVPVFSKAETSTLTIISGDTVEGEQKKESSVRSVSSDSHQDD
EISSMEQSTEDSMQDDTKPKPKKTKKTKAVADNNDVDGDGVHEITSRDSVPYPKLLDDDLVLGVYIH
RTDRLKSDFMISHPMVKIHVVDEHTGQYVKKDDSGRPVSSYYEKENVYILPIMTQPYDFKQLKSRLPEW
EEQIVFNENFPYLLRGSDESPKVIILFFELDFLSVDEIKNNSEVQNEQCGFRKIAWAFLKLLGANGNANI
NSKLRLQLYPPPTKPRSPLSVVEAFEWWSKCPRNHYPSTLYVTVRGLKVPDCIKPSYRSMMALQEEKGK
VHCERHHESSVDTEPGLSEKEVIKWKRLPGQACRIPNKHFLSLNAGERGCFCLDFSHNGRILAAACAS
RDGYPIILYEIPSGRFMRELCGHLNIIYDLWSKDDHYILTSSSDGTARIWKNEINNTNTRVLPHPFSFV
YTAKFHPAVREL VVTGCVDSMIRIWKVEMREDSAILVRQFDVHKSFINSLCFDTEGHMYSGDCTGVIVV
WNTYVKINDLEHVSHTINKEIKETEFKGIPIISYLEIHPNGKRLLIHTKDSLRLIMDLRILVARKFVGA
ANYREKIHSTLTPCGTFLFAGSEDDGIVYVWNPETGEQVAMYSDLFPKSPIRDISYHPFENMVAFCAFGQN
EPILLIYIDFHVAQQEAEMFKRYNGTFPLPGIHQSQDALCTCPKLPHQGSFQIDFVHTESSTKMQLVK
QRLETVTEVIRSCAAKVNKNLSFTSPPAVSSQQSKLKQSNMLTAQEILHQFGFTQTDSHFAEFNTCILWW
KKH
```

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001134832

**ORF Size:** 3159 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001134832.1, NP_001128304.1</u>
<b>RefSeq Size:</b>	3674 bp
<b>RefSeq ORF:</b>	3162 bp
<b>Locus ID:</b>	54806
<b>UniProt ID:</b>	<u>Q8N157</u>
<b>Cytogenetics:</b>	6q23.3
<b>Gene Summary:</b>	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]