

Product datasheet for **RG226358**

AHI1 (NM_001134831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHI1 (NM_001134831) 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:	>RG226358 representing NM_001134831 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTACAGCTGAGAGTGAAGCAAAGTAAAAACCAAAGTTCGCTTTGAAGAATTGCTTAAGACCCACA
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AGAGGAAGACAAACAAGGAAAGCCAAATAAAAAGGTGATAAAGACGGTGCCCGAGTTGACTACACAAGAC
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AACTCAAACCTTCGCTTGCAGCTATATTACCCACCTACTAAGCCTCGATCCCCATTAAGTGTGTTGAGG
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AAAGTCACTCTAATAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226358 representing NM_001134831
 Red=Cloning site Green=Tags(s)

MPTAESEAKVTKVRFEEELLKTHSDLMREKKLKKLVRSEENISPD TIRSNLHYMKETTSDDPDTIRSN
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 ANYREKIHSTLTPCGTFLFAGSEDGIVYVWNPETGEQVAMYSDL PFKSPIRDISYHPFENMVAFCAFQGN
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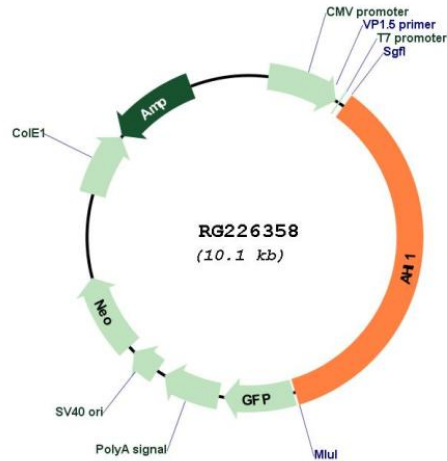
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001134831

ORF Size: 3588 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.

RefSeq: [NM_001134831.2](#)

RefSeq Size: 5649 bp

RefSeq ORF: 3591 bp

Locus ID: 54806

UniProt ID: [Q8N157](#)

Cytogenetics: 6q23.3

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]