Product datasheet for RC226311L3

AHI1 (NM_001134832) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AHI1 (NM_001134832) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AHI1
Synonyms: AHI-1; dj71N10.1; JBTS3; ORF1
Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection: Chloramphenicol (34 ug/mL)
Cell Selection: Puromycin
ORF Nucleotide Sequence: The ORF insert of this clone is exactly the same as (RC226311).
Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shuttling:

```
SgfI
-----CGGATTCCATGATGGGNNNACGCG------
```

```
MluI
-----ATGGCTGACCTGAGAGAGAGAGAGAGAGCTAGC------
```

```
EcoRI BamHI RBS SgfI ORF
CTAGCCGCACAGCTGAGATTACGCCTGAGATGGG
```

```
MluI NotI XhoI Myc.Tag
-----ACGCGCTGACCTGAGAGAGAGAGAGAGAGCTAGC------
```

```
DDK.Tag
GATCTGCGAGAAATGGCTGAGGCTGCCCTGCTGAGCTGAGGTG
```

* The last codon before the stop codon of the ORF.

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.

**RefSeq:** NM_001134832.1, NP_001128304.1

**RefSeq ORF:** 3162 bp

**Locus ID:** 54806

**Cytogenetics:** 6q23.3

**MW:** 120.7 kDa

**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]