

## Product datasheet for **RR215028**

### Ahi1 (NM\_001002277) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ahi1 (NM\_001002277) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ahi1  
**Synonyms:** Ahi-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215028 representing NM\_001002277  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCAAGAGACTCCAGAGAAGGTGGACTCTGCACAGGAGAAGGTCAGAGGCAAGTCCCAGCCAGCAG  
 ATGACTCGGAGGACAGCCGAGAAAAGGCTGGGACAGAGGGGACGGGAGAAGTACCGAAGCCTATGAGCT  
 GCAGGTAGCTGAAGAAATGGCAAAGAGATCAAGAAGAAAATAAGAAGGAAGCTAAAGGAGCAGCTGACC  
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 ACAGTGAGCGTCCCCTCATCTTACTATGAGAAAGACAACGTGGACTATATTCTCCCTATTATGACGCA  
 GCCGTACGACTTTAAAAAGCTAAAGTCAAGGCTTCCAGAGTGGGAGGAACAAGTTATTTTAAATGAAAAAT  
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 GGCATTTCTTAAGCTCCTGGGAGCCAATGGAAATGCAAACATCAACTCAAACCTTCGCTGCAGCTCTAC  
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 GGAATCGTTACCATCAACACTGTATGTAACCGTACGAGGTTGAAAGTCCCGGACTGCATAAAGCCATC  
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 GAAATTCCTTCTGGACGTTTCATGAGAGAATTGTGTGGCCACCTCAATATCATTTATGATCTCGACTGGT



CAAAAGACGATCGCTATCTTGTTACCTCATCATCTGATGGCACTGCCAGGGTTTGAAGAATGAAATCAA  
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 AAGGAGAAAGCTAAAATGGAAAAGCCTCCAGCTTCTCGAAAGTCACTCATTAAAGGACAGGTTCTGGATT  
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 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215028 representing NM\_001002277  
Red=Cloning site Green=Tags(s)

MEQETPEKVDSAQEKVRGKSPADDSSEDSREKAGTEGTGELTEAYELQVAEMAKEIKKKIRRKLKEQLT  
 YFPPDILLHDDKLGSEKRKKKKKKKVPVPAKPEPSPSDVCDSSAAEGEQKKEGAPEGSHHREGGCSTEQNA  
 DASVPENTKPKPKMKKKKPKAVSEDNNEETNGDGVHEITGRDSPVHPKCLLDDDLVMGVYIHRDRLKSDF  
 MISHPMVKIHVVDEHTGQYVKKDDSERPVSSYYEKDNVDYILPIMTQPYDFKLLKSRLEWEEQVIFNEN  
 FPYLLREFDECPKVILFFEILDFLSMDEIKNNSEFQNECGFRKIAWAFLKLLGANGNANINSKLRQLY  
 YPPTKPRSQPNVVEVFEWWSKCPNRYPSTLYVTVRGLKVPDCIKPSYRSMMLQEERGPVYICERHRET  
 SSVDTPEGLSDSKEEVKWKRLPGQACRIPNKHLSLNAGERGCFCLDFSHNGRILAAACASRDGYPIILY  
 EIPSGRFMRELCGHLNIIYDLWSDDRYLVTSSSDGTARVWKNEINSTSTFRVLPHPVYVYARFHPAT  
 RELVVTGCYDSMIRIWKVDAREDAAILVRQLDVHKSFVNSICFDDEGHMYSGDCIGVIAVWDTYVKVTD  
 VQHSVRHWTINKEIKETEFRGVPVSYLEVHPNGRLLIHTKDSLRLIMDLRILAARKFVGAANYREKIH  
 TLTPCGTLLFSGSEDGIVYVWNPETGEQVAMYSELPFKSTIRDISYHPFENMVAFCAGFGQSEPIILYID  
 FQVAQQAEMLKRYSGTVPLPGIHLSEDALCTCPKLPQGSFQIDEFVNTENSSRKIQLVKQRLETVTE  
 VIRSCAAKVNKLSITSPPPGPAKKPRVKQSFVLTDDQIIHQFGVPQTAFISIERRPFMRPVDPPPMVVA  
 LYDYTASRDELTIHRGDIIRVFFKDNEDWYGSLGKQEGFFPANHVASETLYRDSPPKVKERSPLTP  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

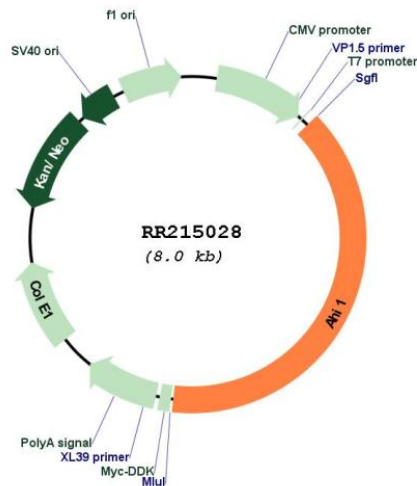
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN:

NM\_001002277

ORF Size:

3141 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](#)

<b>OTI Annotation:</b>	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_001002277.1, NP_001002277.1</u>
<b>RefSeq Size:</b>	3144 bp
<b>RefSeq ORF:</b>	3144 bp
<b>Locus ID:</b>	308923
<b>UniProt ID:</b>	<u>Q6DTM3</u>
<b>Cytogenetics:</b>	1p12
<b>MW:</b>	119.7 kDa
<b>Gene Summary:</b>	mutations in the human homolog are associated with Joubert syndrome, an autosomal recessive disorder resulting in severe cognitive disability [RGD, Feb 2006]