

Product datasheet for MR229499

Azin1 (NM_001301688) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Azin1 (NM_001301688) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Azin1
Synonyms:	1700085L02Rik; AZI; O; Oazi; Oazin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229499 representing NM_001301688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAAGGATTTATTGACGATGCGAACTACTCCGTTGGCCTGTTGGATGAAGGAACAAACCTTGAAATG
TTATTGATAACTATGTTTATGAACATACCTGACAGGAAAAAATGCATTTTTTGTGGGGATCTTGGGAA
GATCGTGAAGAAGCACAGTCAGTGGCAGACCGTGGTGGCTCAGATAAAGCCGTTTTACACGGTGAAGTGC
AACTCCACTCCAGCCGTGCTTGAGATCTTGGCAGCTCTTGGAACTGGGTTTGCTTGTCCAGAAAAATG
AAATGGCTTTAGTGCAAGAATTGGGTGTATCTCCAGAAAACATCATTTTTACAAGTCCTTGAAGCAAGT
GTCTCAGATAAAGTATGCAGCAAAAGTTGGAGTAAATATTATGACATGTGACAATGAGATTGAATTAAG
AAAATTGCAAGGAATCACCCAAATGCCAAGGTCTTACTACATATTGCAACAGAAGATAATTTGGAGGTG
AAGATGGTAACATGAAGTTTGGCACTACACTGAAGAATTGTAGGCATCTTTGGAATGTGCCAAGGAAC
TGATGTCCAAATAATTGGGGTTAAATTTTCATGTTTCAAGTGCTTGCAAGAATATCAAGTATATGTACAT
GCCCTGTCTGATGCTCGATGTGTGTTGACATGGCTGGAGAGTTTGGCTTACAATGAACATGTTAGACA
TCGGTGGAGGCTTACAGGAAGTAAATTCAGTTGGAAGAGGTTAATCATGTTATCAGTCTCTGTTGGA
TATTTACTTCCCTGAAGGATCTGGCATTAGATAATTTTCAGAACCTGGAAGCTACTATGTATCTTCTGCG
TTTACACTTGCAGTCAATATTATTGCTAAGAAAAGTTGTTGAAAATGATAATTTTCTCTGGAGTAGAAA
AAAATGGGAGTGATGAGCCAGCCTTCGTGTATTACATGAATGATGGTGTATGGTTCTTTTGGCAGTAA
GCTTTCTGAGGACTTAAATACCATTCAGAGGTTACAAGAAAACAAGGAAGATGAGCCTCTGTTTACA
AGCAGCCTTTGGGTCCATCCTGTGATGAGCTTTTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1089 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:	<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_001301688.1 , NP_001288617.1
RefSeq Size:	4620 bp
RefSeq ORF:	1092 bp
Locus ID:	54375
UniProt ID:	O35484
Cytogenetics:	15 B3.1
MW:	40.3 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the antizyme inhibitor family, which plays a role in cell growth and proliferation by maintaining polyamine homeostasis within the cell. Antizyme inhibitors are homologs of ornithine decarboxylase (ODC, the key enzyme in polyamine biosynthesis) that have lost the ability to decarboxylase ornithine; however, retain the ability to bind to antizymes. Antizymes negatively regulate intracellular polyamine levels by binding to ODC and targeting it for degradation, as well as by inhibiting polyamine uptake. Antizyme inhibitors function as positive regulators of polyamine levels by sequestering antizymes and neutralizing their effect. This gene encodes antizyme inhibitor 1, the first member of this gene family that is ubiquitously expressed, and is localized in the nucleus and cytoplasm. Overexpression of antizyme inhibitor 1 gene has been associated with increased proliferation, cellular transformation and tumorigenesis. Gene knockout studies showed that homozygous mutant mice lacking functional antizyme inhibitor 1 gene died at birth with abnormal liver morphology. RNA editing of this gene, predominantly in the liver tissue, has been linked to the progression of hepatocellular carcinoma. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2014]</p>