

Product datasheet for **MR207146**

Azin1 (NM_001102458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Azin1 (NM_001102458) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Azin1
Synonyms:	1700085L02Rik; AZI; O; Oazi; Oazin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207146 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGGATTTATTGACGATGCGAACTACTCCGTTGGCCTGTTGGATGAAGGAACAACCTTGGAAATG
 TTATTGATAACTATGTTTATGAACATACCTGACAGAGAAAAATGCATTTTTTGTGGGGATCTTGGGAA
 GATCGTGAAGAAGCACAGTCAGTGGCAGACCGTGGTGGCTCAGATAAAGCCGTTTTACACGGTGAAGTGC
 AACTCCACTCCAGCCGTGCTTGAGATCTTGGCAGCTCTTGGAACTGGGTTTGCTTGTCCAGCAAAAATG
 AAATGGCTTTAGTGAAGAATTGGGTGTATCTCCAGAAAACATCATTTTCAACAAGCCTTGAAGCAAGT
 GTCTCAGATAAAGTATGCAGCAAAAAGTTGGAGTAAATATTATGACATGTGACAATGAGATTGAATTAAG
 AAAATTGCAAGGAATCACCCAAATGCCAAGGTCTTACTACATATTGCAACAGAAGATAATATTGGAGGTG
 AAGATGGTAACATGAAGTTTGGCACTACACTGAAGAATTGTAGGCATCTTTTGGAAATGTCCAAGGAACT
 TGATGTCCAAATAATTGGGGTAAATTTTCATGTTTCAAGTGCTTGCAGAAAGATATCAAGTATATGTACAT
 GCCTGTCTGATGCTCGATGTGTGTTTGCATGGCTGGAGAGTTTGGCTTACAATGAACATGTTAGACA
 TCGGTGGAGGCTTACAGGAACTGAAATTCAGTTGGAAGAGGTTAATCATGTTATCAGTCCCTCTGTTGGA
 TATTTACTTCCCTGAAGGATCTGGCATTAGATAATTTGAGAACCTGGAAGCTACTATGTATCTTCTGCG
 TTTACACTTGCAGTCAATATTATTGCTAAGAAAGTTGTTGAAAATGATAAATTTTCTCTGGAGTAGAAA
 AAAATGGGAGTGATGAGCCAGCCTTCGTGATTACATGAATGATGGTGTATGTTTCTTTTGGAGTAA
 GCTTTCTGAGGACTTAAATACCATTCCAGAGGTTACAAGAAATACAAGGAAGATGAGCCTCTGTTTACA
 AGCAGCCTTTGGGTCCATCCTGTGATGAGCTTGATCAAATTGTGAAAGCTGTCTTCTCTGAGCTGA
 ATGTGGGAGATTGGCTTATCTTTGATAACATGGGAGCAGATTCTTCCACGAACCATGCTTTTTAATGA
 TTTTCAGAGGCCAGCTATTTATTTTCATGATGTCATTCAGTATTGGTATGAGATGCAAGATGCTGGAATT
 ACTTCAGATGCAATGATGAAAACTTCTTCTTGCACCCTCTGTATTTCAGCTGAGCCAAGAAGACAGCT
 TTTCCACTGAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207146 protein sequence
 Red=Cloning site Green=Tags(s)

MKGFIDDANYSVGLLDEGTNLGNVIDNYVYEHTLTEKNAFFVGD LGKIVKKHSQWQTVAQIKPFYTVKC
 NSTPAVLEILAALGTGFACSSKNEMALVQELGVSPENIIFTSPCKQVSQIKYAAKVGVMIMTCDNEIELK
 KIARNHPNAKVL LHIATEDNIGGEDGNMKFGTTLKNCRHLLLECAKELDVQIIGVKFHVSSACKKEYQVYVH
 ALSDARCVFDMAGEFGFTMNMLDIGGGFTGTEIQLEEVNHVISPLLDIYFPEGSGIQI ISEPGSYVYVSSA
 FTLAVNIIAKKVENDKFSVGVEKNGSDEPAFVYYMNDGVYGSFASKLSEDLNTIPEVHKKYKEDEPLFT
 SSLWGPSCDEL DQIVESCLLPELVGDWLI FDNMGADSFHEPSAFNDFQRP AIYFMMSFSDWYEMQDAGI
 TSDAMMKNFFAPSCIQLSQEDSF STEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

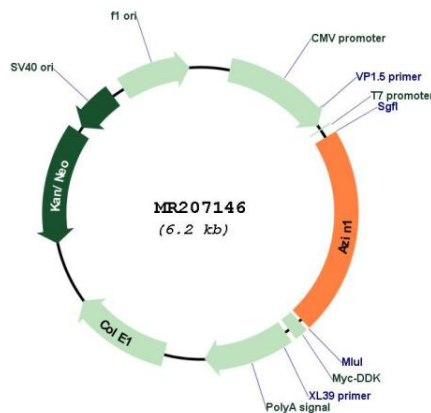
SgfI-MluI

Cytogenetics: 15 B3.1

MW: 49.6 kDa

Gene Summary: 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]

Product images:



Circular map for MR207146