

Product datasheet for RN206887

Azin1 (NM_022585) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids	
Product Name:	Azin1 (NM_022585) Rat Untagged Clone	
Tag:	Tag Free	
Symbol:	Azin1	
Synonyms:	Oazi; Oazin	
Vector:	pCMV6-Entry (PS100001)	
E. coli Selection:	Kanamycin (25 ug/mL)	
Cell Selection:	Neomycin	

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Fully Sequenced ORF:	>RN206887 representing NM_022585 <mark>Red</mark> =Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAAAGGATTTATTGACGATGCAAACTACTCCGTTGGCCTGTTGGATGAAGGAACAAACCTTGGAAATG TTATTGATAACTATGTTTATGAACATACCCTGACAGGAAAAATGCATTTTTGTGGGGGATCTTGGGAA GATCGTGAAGAAGCACAGTCAGTGGCAGAACGTGGTGGCTCCAGATAAAGCCATTTTACATGGTGAAAGTGC AACTCCACTCC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_022585
Insert Size:	1347 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liqui at the bottom. 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.

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	Azin1 (NM_022585) Rat Untagged Clone – RN206887
RefSeq:	NM 022585.2, NP 072107.2
RefSeq Size:	4344 bp
RefSeq ORF:	1347 bp
Locus ID:	58961
Cytogenetics:	7q22
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. Alternatively spliced transcript variants have been found for this

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly.

The genomic coordinates used for the transcript record were based on alignments.

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gene. [provided by RefSeq, Sep 2014]