

Product datasheet for **MR221840**

Oaz1 (NM_008753) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oaz1 (NM_008753) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Oaz1
Synonyms: Antiz; Antizyme; AZ; AZ-; AZ-1; AZ1; Oaz; ODC-Az
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221840 representing NM_008753
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAATCCTCCCTGCAGCGGATCCTCAACAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGACAAAC
GCAGCGCCACGCTTCACGCCAGCCGCACCATGCCGCTTCTTAGTCAGCACAGCCGCGGGCTGCAGCAG
CGAGAGTTCTAGGGTTGCCCTTAATTGCTGTAGTAACCTGGGTCCGGGGCCTCGGTGGTCTCTGATGT
CCCTCACCCACCCTGAAGATCCCAGGTGGGCGAGGGAACAGTCAGCGGGATCACAGTCTTTCAGCTAGC
ATCCTGTACTCCGACGAGCGGTGAATGTGACAGAGGAGCCGACGTCTAACGACAAGACCAGGGTCTCTGA
GCATCCAGTCCACGCTCACGGAGCCAAGCAGGTACCTGGAGGGCGGTGTGGAGTGGTGGCTCTA
CATCGAGCTCCCAGCTGGACCTCTGCCTGAGGGCAGTAAGGACAGTTTTGCAGCTCTCCTAGAGTTCGCA
GAGGAGCAACTCCAGGCTGACCAGTTTTTCATCTGCTTCCCAAGAACCGTGAGGACAGAGCCGCCCTAC
TCCGAACCTTCAGCTTCTTGGCTTTGAGATTGTGAGACCCGGGCATCCCCTTGTCCCAAGAGACCCGA
CGCTTGCTTCATGGTCTACACTCTGGAGAGAGAGGACCCGGGTGAGGAGGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

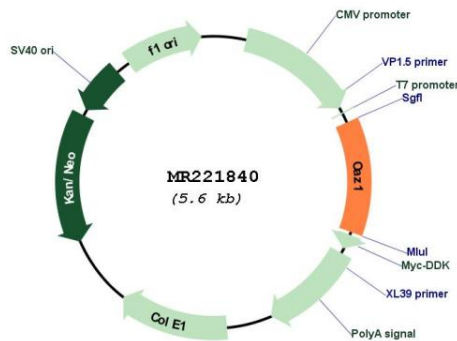


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RefSeq ORF: 685 bp
 Locus ID: 18245
 UniProt ID: [P54369](https://www.uniprot.org/uniprot/P54369)
 Cytogenetics: 10 39.72 cM
 MW: 15.3 kDa

Gene Summary: The protein encoded by this gene belongs to the ornithine decarboxylase antizyme family, which plays a role in cell growth and proliferation by regulating intracellular polyamine levels. Expression of antizymes requires +1 ribosomal frameshifting, which is enhanced by high levels of polyamines. Antizymes in turn bind to and inhibit ornithine decarboxylase (ODC), the key enzyme in polyamine biosynthesis; thus, completing the auto-regulatory circuit. This gene encodes antizyme 1, the first member of the antizyme family, that has broad tissue distribution, and negatively regulates intracellular polyamine levels by binding to and targeting ODC for degradation, as well as inhibiting polyamine uptake. Antizyme 1 mRNA contains two potential in-frame AUGs; and studies in rat suggest that alternative use of the two translation initiation sites results in N-terminally distinct protein isoforms with different subcellular localization. Alternatively spliced transcript variants have also been noted for this gene. [provided by RefSeq, Dec 2014]

Product images:



Circular map for MR221840