

## Product datasheet for RC223468L4V

### OriGene Technologies, Inc.

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# OAZ1 (NM\_004152) Human Tagged ORF Clone Lentiviral Particle

### **Product data:**

Product Type: Lentiviral Particles

**Product Name:** OAZ1 (NM\_004152) Human Tagged ORF Clone Lentiviral Particle

Symbol: OAZ1

Synonyms: AZ1; AZI; OAZ

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

**ACCN:** NM\_004152

ORF Size: 201 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC223468).

Sequence:

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.

RefSeq: <u>NM 004152.1</u>

 RefSeq Size:
 986 bp

 RefSeq ORF:
 688 bp

 Locus ID:
 4946

 UniProt ID:
 P54368

 Cytogenetics:
 19p13.3

**MW:** 7.22 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]