

# Product datasheet for RR215714

## Oaz2 (NM\_001109899) Rat Tagged ORF Clone

### Product data:

#### OriGene Technologies, Inc.

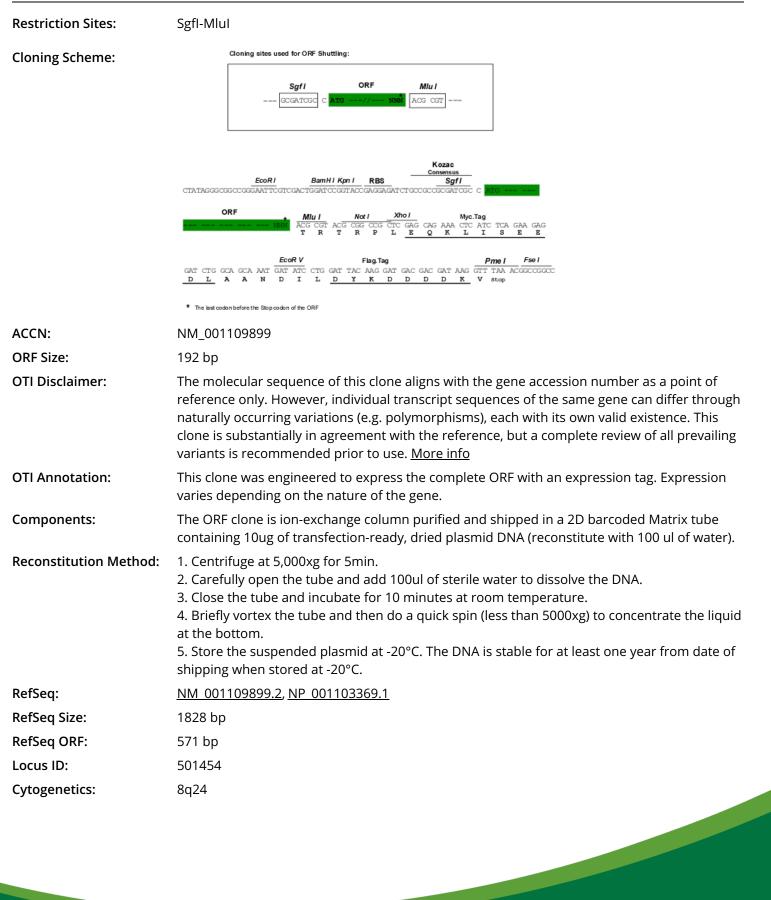
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Product Type:	Expression Plasmids
Product Name:	Oaz2 (NM_001109899) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oaz2
Synonyms:	RGD1562933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RR215714 representing NM_001109899 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGATAAACACCCAGGACAGTAGTATTTTGCCTTTGAGTAACTGTCCCCAGCTCCAGTGCTGCAGGCACA TTGTTCCAGGGCCTCTGTGGTGCTCCGATGCCCCTCACCCACTGTCGAAGATCCCCGGTGGGCGAGGGGG CGGCAGGGATCCTTCTCTCTCAGCTCTAATATATAAGGACGAGAAGCTCACTGTGACCCAGGACCTCCCT GTGAATGATGGAAAACCTCACATCGTCCACTTCCAGTATGAGGTCACCGAGGTGAAGGTCTCTTCTTGGG ATGCAGTCCTGTCCAGCCAGAGCCTGTTTGTAGAAATCCCAGATGGATTATTAGCTGATGGGAGCAAAGA AGGATTGTTAGCACTGCTAGAGTTTGCTGAAGAGAAGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RR215714 representing NM_001109899 Red=Cloning site Green=Tags(s)</pre>
	MINTQDSSILPLSNCPQLQCCRHIVPGPLWCSDAPHPLSKIPGGRGGGRDPSLSALIYKDEKLTVTQDLP VNDGKPHIVHFQYEVTEVKVSSWDAVLSSQSLFVEIPDGLLADGSKEGLLALLEFAEEKMKVNYVFICFR KGREDRAPLLKTFSFLGFEIVRPGHPCVPSRPDVMFMVYPLDQNLSDED
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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### **GRIGENE** Oaz2 (NM\_001109899) Rat Tagged ORF Clone – RR215714



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#### Section 2011 Contemporary Conte

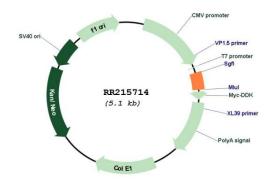
#### MW:

Gene Summary:

7.1 kDa

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 2, the second member of the antizyme family. Like antizyme 1, antizyme 2 has broad tissue distribution, inhibits ODC activity and polyamine uptake, and stimulates ODC degradation in vivo; however, it fails to promote ODC degradation in vitro. Antizyme 2 is expressed at lower levels than antizyme 1, but is evolutionary more conserved, suggesting it likely has an important biological role. Studies also show different subcellular localization of antizymes 1 and 2, indicating specific function for each antizyme in discrete compartments of the cell. Alternatively spliced transcript variants have been found for this gene. [provided by

### **Product images:**



RefSeq, Dec 2014]

Circular map for RR215714

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