

Product datasheet for **RG215989**

OAS2 (NM_016817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OAS2 (NM_016817) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OAS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215989 representing NM_016817
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAATGGGGAGTCCAGCTGTCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATCCAGGAATACC
 TGAA GCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGTGACGTCCTGCAGGA
 ACCCGAACAGTTC CCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTTAAGA
 GGCAACTCCGATGGTACCCTTGTCTCTTCTCAGTGACTTAAAACAATTCAGGATCAGAAGAGAAGCC
 AACGTGACATCCTCGATAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACAA
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 ATCTTCTGGCAAAAGAAGCAAAGGAATGGTTATCCTCTCCCTGCTTCAAGGATGGGACTGGAAACCAAT
 ACCACCTTGGAAAGTGCCGACAATGCAGACACCAGGAAGTTGTGGAGCTAGGATCCATCCTATTGTCAAT
 GAGATGTTCTCATCCAGAAGCCATAGAATCCTGAATAATAATTCTAAAAGAACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

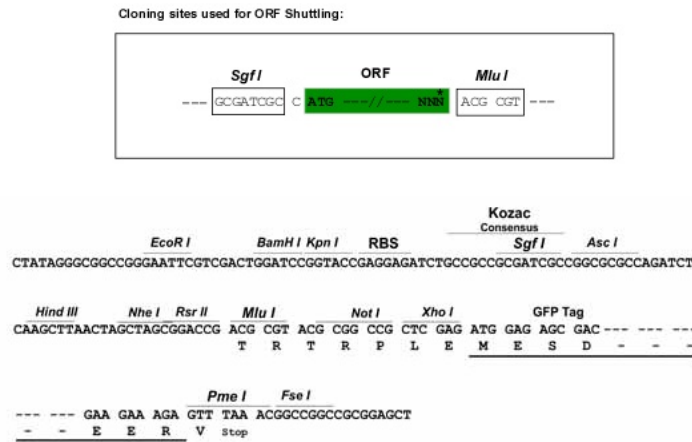
Protein Sequence: >RG215989 representing NM_016817
 Red=Cloning site Green=Tags(s)

MNGESQLSSVPAQKLGWFIQEYLKPYEECQTLIDEMVNTICDVLQEPEQFPLVQGVAIGGSYGRKTVLR
 GNSDGTLLVFFSDLKQFQDKRSQRDILDKTGDKLKFCLFTKWLKNNFEIQKSLDGFTIQVFTKNQRISF
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 QKKIKDLPSLSPYALELLTVYAWEQGCRKDNFDIAEGVRTVLELIKCEKLCIYWMVNYNFEDETRNLL
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 FIKFELQPNKCFLEQIDSAVNIIRTFLEKENCFRQSTAKIQIVRGGSTAKGTALKTGSDADLVVFNLSKS
 YTSQKNERHKIVKEIHEQLKAFWREKEEELVSEFPPKWKAPRVLSFLSKSVLNEVSFVDFLPAFNALG
 QLSSGSTPSPEVYAGLIDLYKSSDLPGGEFSTCFVTLQRNFIRSRTKLDLIRLVKHWYKECERLKP
 GSLPPKYALELLTIYAWEQGSGVPDFDTAEGFRTVLELVTQYQQLCFWKVNYNFEDETRKFLLSQLQK
 TRPVILDPAEPTGDVGGDRWCWHLAKEAKEWLSSPCFKDGTGNPIPPWKVPTMQTPGSCGARIHPVIVN
 EMFSSRSHRILNNSKRNF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

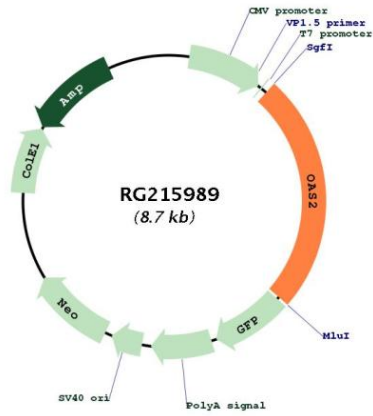


ACCN: NM_016817

ORF Size: 2157 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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.
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:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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.
RefSeq:	NM_016817.3
RefSeq Size:	3539 bp
RefSeq ORF:	2160 bp
Locus ID:	4939
UniProt ID:	P29728
Cytogenetics:	12q24.13
Domains:	NTP_transf_2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the 2-5A synthetase family, essential proteins involved in the innate immune response to viral infection. The encoded protein is induced by interferons and uses adenosine triphosphate in 2'-specific nucleotidyl transfer reactions to synthesize 2',5'-oligoadenylates (2-5As). These molecules activate latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. The three known members of this gene family are located in a cluster on chromosome 12. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215989