

Product datasheet for **SC302665**

OAS2 (NM_001032731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OAS2 (NM_001032731) Human Untagged Clone
Tag:	Tag Free
Symbol:	OAS2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001032731, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAATGGGGAGTCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATC
CAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACC
ATCTGTGACGCTCCTGCAGGAACCCGAACAGTTCCTCCCTGGTGCAGGGAGTGGCCATAGGT
GGCTCCTATGGACGGAACAGTCTTAAGAGGCAACTCCGATGGTACCCTTGCTCCTTTC
TTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTGACATCCTCGATAAA
ACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACAATTTTCGAGATC
CAGAAGTCCCTTGATGGGTTACCATCCAGGTGTTACAAAAAATCAGAGAATCTCTTTC
GAGGTGCTGGCCGCTTCAACGCTCTGAGTAAGCATTGCTGGGTGTCAGGAGAGAAAAAGC
CAAAGAAGCGGGTGCCAGACAGCTCTGTGCAACCTCTAG
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Restriction Sites:	Please inquire
ACCN:	NM_001032731
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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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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:	<u>NM_001032731.1, NP_001027903.1</u>
RefSeq Size:	2123 bp
RefSeq ORF:	519 bp
Locus ID:	4939
UniProt ID:	<u>P29728</u>
Cytogenetics:	12q24.13
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains an additional segment in the 5' coding region, compared to variant 1, which leads to a premature stop codon. It encodes isoform 3, which has a shorter, distinct N-terminus, compared to isoform 1.</p>