

## Product datasheet for **RG223226**

### **OAS2 (NM\_001032731) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OAS2 (NM\_001032731) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** OAS2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG223226 representing NM\_001032731  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAAATGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATCCAGGAATACC  
TGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGTGACGTCCTGCAGGA  
ACCCGAACAGTCCCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTTAAGA  
GGCAACTCCGATGGTACCCTTGCCTCTTCTTCAGTGACTTAAACAATTCCAGGATCAGAAGAGAAGCC  
AACGTGACATCCTCGATAAACTGGGGATAAGCTGAAGTCTGTCTGTTACGAAGTGGTTGAAAAACAA  
TTTCGAGATCCAGAAGTCCCTTGATGGGTTACCATCCAGGTGTTCAAAAAATCAGAGAATCTCTTTC  
GAGGTGCTGGCCGCTTCAACGCTCTGAGTAAGCATTGCTGGGTGTCAGGAGAGAAAAGCCAAAGAAGCG  
GGTGCCAGACAGCTCTGTGCAACCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG223226 representing NM\_001032731  
Red=Cloning site Green=Tags(s)  
MNGESQLSSVPAQKLGWFIQEYLKPYEECQTLIDEMVNTICDVLQEPEQFPLVQGVAIIGGSYGRKTVLR  
GNSDGTLLVFFSDLKQFQDKRSQRDILDKTGDKLKFCLFTKWLKNNFEIQKSLDGFTIQVFTKNQRISF  
EVLAAFNALSKHCWVSGEKSQRSGCQTALCNL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<p><a href="#">NM_001032731.2</a></p>
<b>RefSeq Size:</b>	<p>2123 bp</p>
<b>RefSeq ORF:</b>	<p>519 bp</p>
<b>Locus ID:</b>	<p>4939</p>
<b>UniProt ID:</b>	<p><a href="#">P29728</a></p>
<b>Cytogenetics:</b>	<p>12q24.13</p>
<b>Protein Families:</b>	<p>Druggable Genome</p>
<b>Gene Summary:</b>	<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>