

## Product datasheet for **SC324221**

### **OAS2 (NM\_002535) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	OAS2 (NM_002535) Human Untagged Clone
Tag:	Tag Free
Symbol:	OAS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_002535.2
ATCCTACCATTACTGTCTTGCCGCGCAGCCAGCTGAGAGCAATGGGAAATGGGGAGTCCC
AGCTGTCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATCCAGGAATACCTGAAGCCCT
ACGAAGAATGTGACAGACTGATCGACGAGATGGTGAACACCATCTGTGACGTCTGCAGG
AACCCGAACAGTCCCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAA
CAGTCTTAAGAGGCAACTCCGATGGTACCCTTGTCTCTTCTTCAGTGACTTAAAAAAT
TCCAGGATCAGAAGAGAAGCCAACTGACATCCTCGATAAAACTGGGGATAAGCTGAAGT
TCTGTCTGTTACGAAGTGGTTGAAAAACAATTCGAGATCCAGAAGTCCCTTGATGGGT
TCACCATCCAGGTGTTCAAAAAAATCAGAGAATCTTTTCGAGGTGCTGGCCGCTTCA
ACGCTCTGAGCTTAAATGATAATCCCAGCCCTGGATCTATCGAGAGCTCAAAGATCCT
TGGATAAGACAAATGCCAGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
AGTTTTTTGACAACCGTCTGGAAAACTAAAGGATTTGATCCTCTTGATAAAGCACTGGC
ATCAACAGTGCCAGAAAAAATCAAGGATTTACCCTCGCTGTCTCCGTATGCCCTGGAGC
TGCTTACGGTGTATGCCTGGGAACAGGGGTGCAGAAAAGACAACCTTGGACATTGCTGAAG
GGTGCAGAACCGTCTGGAGCTGATCAAATGCCAGGAGAAGCTGTGTATCTATTGGATGG
TCAACTACAACCTTGAAGATGAGACCATCAGGAACATCCTGCTGCACCAGCTCCAATCAG
CGAGGCCAGTAATCTTGATCCAGTTGACCCAACCAATAATGTGAGTGGAGATAAAATAT
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TTCTGGATAAGTTCATCAAGGAGTTTCTCCAGCCCAACAAATGCTTCTAGAGCAGATTG
ACAGTGTCTGTTAACATCATCCGTACATTCCTTAAAGAAAAGTCTCCGACAATCAACAG
CCAAGATCCAGATTGTCCGGGGAGGATCAACCGCCAAAGGCACAGCTCTGAAGACTGGCT
CTGATGCCGATCTCGTGTGTTCCATAACTCACTTAAAGTACACCTCCCAAAAAACG
AGCGGCACAAAAATCGTCAAGGAAATCCATGAACAGCTGAAAGCCTTTTGGAGGGAGAAGG
AGGAGGAGCTTGAAGTCAAGCTTTGAGCCTCCCAAGTGAAGGCTCCCAAGGCTGCTGAGCT
TCTCTCTGAAATCCAAGTCTCAACGAAAGTGTGAGCTTTGATGTGCTTCTGCCTTTA
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TTGATCTGTATAAATCCTCGACCTCCCGGGAGGAGAGTTTTCTACCTGTTTACAGTCC
TGCAGCGAAACTTCACTCGCTCCCGGCCCAAACTAAAGGATTTAATTCGCTGGTGA
AGCACTGGTACAAGAGTGTGAAAGGAACTGAAGCCAAAGGGGCTTTTGGCCCAAGT
ATGCCTTGGAGTGTCTACCATCTATGCCTGGGAGCAGGGGAGTGGAGTGGCGGATTTT
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TCTTCTGGAAGGTCAATTACAACCTTGAAGATGAGACCGTGAAGGAGTTTCTACTGAGCC
AGTTGCAGAAAACCAGGCCTGTGATCTTGGACCCAGCCGAACCCACAGGTGACGTGGGTG
GAGGGGACCGTTGGTGTGGCATCTTCTGGCAAAAAGCAAAGGAATGGTTATCCTCTC
CCTGCTCAAGGATGGGACTGGAAACCAATACCACCTTGGAAAGTGGCGGTAAGTCA
TCTAAAGGAGGCGTTGTCTGAAATAGCCCTGTAAACAGGCTTGAATCGAAGAATCTCC
TACTGTAGCAACCTGAAATTAACCTCAGACACAAATAAAGGAAACCCAGCTCACAGGAGCT
TAAACAGCTGGTCAAGCCCTAAGCCCCACTACAAGTATCCTCAGGCAGGTAACCCCA
GATTCATGCACTGTAGGGTGTGCGCAGCATCCCTAGTCTCTACCCAGTATGATGCCACTA
GCCCTCCTCTCCAGTGAACAACAAAAGTCTTCAAGACATTGTCAAACGTTCCCTGGGT
CACAGATCTTTCTGCCTTTGGCTTTTGGCTCCACCCTCTTATAGCTGTTAATTTGAGTACT
TATGGCCCTGAAAGCGGCCACGGTGCCTCCAGATGGCAGGTTTGAATCCAAGCAGGAAG
AAGGAAAAGATACCCAAAGGTCAAGAACACAGTATTTTATTAGAAGTTTATCCGCAA
TTTTCTTCCATTTTATTGCTCAGAAATGTATGTGGCTACCTGTAACCTGAAGGTGGCTA
CAAAGATGACTGTGGACGTGGGTTGCACTGGCCACCAAGGATGTCTGCCACACCTTCC
AAAGCCCTCCCTACCTACCAAGATATACCTGATATATTCCACCAGGATATCCTCCCTCCA
GATATACTTGGTTCTCTCCACCAGTCTTTCTTTAAAGCAGGATTTCTCAACTTTGATA
CTTACTCACATTTGGGGCTAGACAGTCTTTGTTTGGAGGCTCTCTTGTGCAATTGATGA
TGTTGAGCAGCATCTCTGGCCTGTACCCAGTAGATGCCACCCAGTTGTGACAATTAAGG
TGCTTGGAGACTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA
    
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<b>Restriction Sites:</b>	ECoRI-NOT
<b>ACCN:</b>	NM_002535
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<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>	<a href="#">NM_002535.2</a> , <a href="#">NP_002526.2</a>
<b>RefSeq Size:</b>	3647 bp
<b>RefSeq ORF:</b>	2064 bp
<b>Locus ID:</b>	4939
<b>UniProt ID:</b>	<a href="#">P29728</a>
<b>Cytogenetics:</b>	12q24.13
<b>Domains:</b>	NTP_transf_2
<b>Protein Families:</b>	Druggable Genome
<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> <p>Transcript Variant: This variant (2) contains an additional segment in the 3' coding region, compared to variant 1, which leads to a premature stop codon. It encodes isoform 2, also known as p69, which has a shorter, distinct C-terminus compared to isoform 1.</p>