

Product datasheet for **SC118582**

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:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118582 sequence for NM_002535 edited (data generated by NextGen Sequencing)

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ATGGGAAATGGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATC
CAGGAATACCTGAAGCCCTACGAAGAATGTGACACTGATCGACGAGATGGTGAACACC
ATCTGTGACGTCCTGCAGGAACCCGAACAGTCCCCCTGGTGCAGGGAGTGGCCATAGGT
GGTCCCTATGGACGAAAAACAGTCTTAAGAGGCAACTCCGATGGTACCCTTGCTCTTTC
TTCAGTGACTTAAAAACAATTCAGGATCAGAAGAGAAGCCAACGTGACATCCTCGATAAA
ACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACAATTTTCGAGATC
CAGAAGTCCCTTGATGGGTTCCACCATCCAGGTGTTCAAAAAAATCAGAGAATCTCTTTC
GAGGTGCTGGCCGCCTTCAACGCTCTGAGCTTAAATGATAATCCCAGCCCTGGATCTAT
CGAGAGCTCAAAAGATCCTTGGATAAGACAAATGCCAGTCTGGTGGTGGTGGTGGTGGT
TTCAGTGAAGTCCAGCAGAAAGTTTTTGGACAACCGTCTGGAAAATAAAGGATTTGATC
CTCTTGATAAAGCACTGGCATCAACAGTGCCAGAAAAAATCAAGGATTTACCCTCGCTG
TCTCCGTATGCCCTGGAGCTGCTTACGGTGTATGCCTGGGAACAGGGGTGCAGAAAAGAC
AACTTTGACATTGCTGAAGGCGTCAGAACCCTTCTGGAGCTGATCAAATGCCAGGAGAAG
CTGTGTATCTATTGGATGGTCAACTACAACCTTTGAAGATGAGACCATCAGGAACATCCTG
CTGCACCAGCTCCAATCAGCGAGGCCAGTAATCTTGGATCCAGTTGACCAACCAATAAT
GTGAGTGGAGATAAAATATGCTGGCAATGGCTGAAAAAGAAGCTCAAACCTGGTTGACT
TCTCCCAACCTGGATAATGAGTTACCTGCACCATCTTGGAAATGTTCTGCCTGCACCCTC
TTCACGACCCAGGCCACCTTCTGGATAAGTTCATCAAGGAGTTTCTCCAGCCCAACAAA
TGCTTCTAGAGCAGATTGACAGTGCTGTTAACATCATCCGTACATTCTTAAAGAAAAC
ACAGCTCTGAAGACTGGCTCTGATGCCGATCTCGTCTGTTCCATAACTCACTTAAAAGC
TACACCTCCCAAAAAACGAGCGGCACAAAATCGTCAAGGAAATCCATGAACAGCTGAAA
GCCTTTTGGAGGGAGAAGGAGGAGGAGCTTGAAGTCAGCTTTGAGCCTCCCAAGTGGAAAG
GCTCCAGGGTGTGAGCTTCTCTGAAATCCAAAGTCTCAACGAAAGTGTGAGCTTT
GATGTGCTTCTGCCTTAAATGCACTGGGTGAGCTGAGTTCTGGCTCCACACCCAGCCCC
GAGGTTTATGCAGGGCTCATTGATCTGTATAAATCCTCGGACCTCCCGGGAGGAGGTTT
TCTACCTGTTTACAGTCTGCAGCGAACTTCATTGCTCCCGGCCACCAAATAAAG
GATTTAATTCGCCTGGTGAAGCACTGGTACAAAGAGTGTGAAAGGAAACTGAAGCCAAAG
GGGTCTTTGCCCCAAAGTATGCCTTGGAGCTGCTCACCATCTATGCCTGGGAGCAGGGG
AGTGGAGTGCCGATTTTGACACTGCAGAAGGTTCCGGACAGTCTGGAGCTGGTCACA
CAATATCAGCAGCTCTGCATCTTCTGGAAGGTCAATTACAACCTTTGAAGATGAGACCGTG
AGGAAGTTTCTACTGAGCCAGTTGCAGAAAACAGGCCTGTGATCTTGGACCCAGCCGAA
CCCACAGGTGACGTGGGTGGAGGGGACCGTTGGTGTGGCATCTTCTGGCAAAAAGAGCA
AAGGAATGGTTATCCTCTCCCTCAAGGATGGGACTGGAAACCCAATACCACCTTGG
AAAGTGCCGGTAAAAGTCATCTAA

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Clone variation with respect to NM_002535.2
753 a=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002535 unedited ATACTTACTTGTGCTACGACTCGATATAGGGCGGCCGGAATTCGGCACCAGGAGTTGGT AAGCTCGCTGCAGTGGGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCCTGGCTCTG GGCAGCAGCAAGAATTCCTCTGCCTCCCATCCTACCATTCACTGTCTTGCCGGCAGCCAG CTGAGAGCAATGGGAAATGGGGAGTCCCAGCTGCCTCGGTGCCTGCTCAGAAGCTGGGT TGGTTTATCCAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATG GTGAACACCATCTGTGACGTCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGGGAGTG GCCATAGGTGGCTCCTATGGACGAAAAACAGTCTTAAGAGGCAACTCCGATGGTACCCTT GTCCTCTTCTTCACTGACTTAAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTGACATC CTCGATAAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACAAT TTCGAGATCCAGAAGTCCCTTGATGGGTTACCATCCAGGTGTTCAAAAAAATCAGAGA ATCTCTTTGAGGTGCTGGCCGCCTTCAACGCTCTGAGCTTAAATGATAATCCCAGCCCC TGGATCTATCGAGAGCTCAAAGATCCTTGATAAGACAAATGCCAGTCTGGTGAGTTT GCAGTCTGCTTCACTGAACTCCAGCAGAAGTTTTTTGACAACCGTCTGAAAATAAAGG ATTTGATCCTCTTGATAAAGCACTGGCATCAACAGTGCCAGAAAAAATCAAGATTTACC CTCGCTGTCTCCGTATGCCCTGAGCTGCTACGTGTATGCTGGGACAGGGGTGCAGAAAA GACAACTTGACATTGCTGAGGCGTCAGACCCGTTCTGGGAGCCTG
Restriction Sites:	EcoRI-NOT
ACCN:	NM_002535
Insert Size:	2700 bp
OTI Disclaimer:	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).
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_002535.2 , NP_002526.2
RefSeq Size:	3647 bp
RefSeq ORF:	2064 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]

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.