

Product datasheet for SC109505

OAS1 (NM_002534) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OAS1 (NM_002534) Human Untagged Clone
Tag:	Tag Free
Symbol:	OAS1
Synonyms:	E18/E16; IFI-4; OIAS; OIASI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109505 sequence for NM_002534 edited (data generated by NextGen Sequencing) ATGATGGATCTCAGAAATACCCAGCCAAATCTCTGGACAAGTTCATTGAAGACTATCTC TTGCCAGACACGTGTTTCCGCATGCAAATCAACCATGCCATTGACATCATCTGTGGGTTCC CTGAAGGAAAGGTGCTTCCGAGGTAGCTCCTACCCTGTGTGTGTCCAAGGTGGTAAAG GGTGGCTCCTCAGGCAAGGGCACCCCTCAGAGGCCGATCTGACGCTGACCTGGTTGTC TTCCTCAGTCCTCTACCACTTTTCAGGATCAGTTAAATCGCCGGGGAGAGTTTCATCCAG GAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGAGCATTTCCTGAAAGTTTGAG GTCCAGGCTCCACGCTGGGGCAACCCCGTGCCTCAGCTTCGACTGAGTTCGCTCCAG CTCGGGAGGGGGTGGAGTTCGATGTGCTGCCTGCCTTTGATGCCCTGGGTCAGTTGACT GGCAGCTATAAACCTAACCCCAAATCTATGTCAAGCTCATCGAGGAGTGCACCGACCTG CAGAAAGAGGGCGAGTTCTCCACCTGCTTACAGAACTACAGAGAGACTTCTGAAGCAG CGCCCCCAAGCTCAAGAGCCTCATCCGCCTAGTCAAGCACTGGTACCAAAATTGTAAG AAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGCTCCTGACGGTCTATGCTTGG GAGCGAGGGAGCATGAAAACACATTTCAACACAGCCAGGGATTCGGACGGTCTTGAA TTAGTCATAAACTACCAGCACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAAC CCCATTATTGAAAAGTACCTGAGAAGGCAGCTCACGAAACCCAGGCCTGTGATCCTGGAC CCGGCGGACCCTACAGGAAACTTGGGTGGTGGAGACCCAAAGGGTTGGAGGCAGCTGGCA CAAGAGGCTGAGGCCTGGCTGAATTACCCATGCTTTAAGAATTGGGATGGGTCCCCAGTG AGCTCCTGGATTCTGCTGGTGAGACCTCCTGCTTCTCCTCCCTGCCATTATCCCTGCCCT CTCCATGAAGCTTGA
	Clone variation with respect to NM_002534.2 484 g=>a
Restriction Sites:	NotI-NotI



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ACCN:	NM_002534
Insert Size:	1950 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_002534.2 , NP_002525.2
RefSeq Size:	1470 bp
RefSeq ORF:	1095 bp
Locus ID:	4938
UniProt ID:	P00973
Cytogenetics:	12q24.13
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene is induced by interferons and encodes a protein that synthesizes 2',5'-oligoadenylates (2-5As). This protein activates latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. Alternative splicing results in multiple transcript variants with different enzymatic activities. Polymorphisms in this gene have been associated with susceptibility to viral infection and diabetes mellitus, type 1. A disease-associated allele in a splice acceptor site influences the production of the p46 splice isoform. This gene is located in a cluster of related genes on chromosome 12. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR compared to variant 1. It encodes isoform 2 (also known as E16, p40, or p42), which has a shorter, distinct C-terminus compared to isoform 1.</p>