

Product datasheet for SC313306

OAS1 (NM_016816) Human Untagged Clone

Product data:

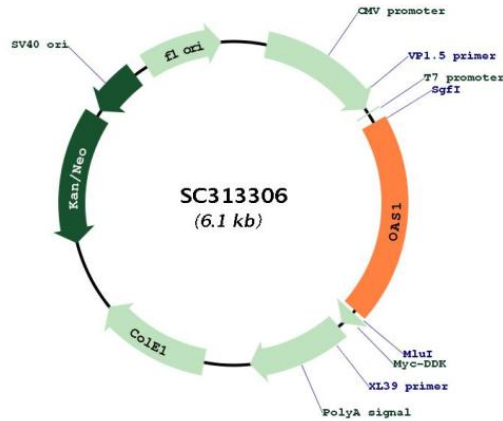
Product Type:	Expression Plasmids
Product Name:	OAS1 (NM_016816) Human Untagged Clone
Tag:	Tag Free
Symbol:	OAS1
Synonyms:	E18/E16; IFI-4; OIAS; OIASI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313306 representing NM_016816. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGATCTCAGAAATACCCAGCCAAATCTCTGGACAAGTTCATTGAAGACTATCTCTTGCCAGAC
ACGTGTTTCCGCATGCAAATCAACCATGCCATTGACATCATCTGTGGTTCCTGAAGGAAAGGTGCTTC
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GAAGAGGACTGGACCTGCACCATCCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_016816

Insert Size: 1203 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).

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.

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:

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_016816.3](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1203 bp

Locus ID: 4938

UniProt ID: [P00973](#)

Cytogenetics: 12q24.13

Protein Families:	Druggable Genome
MW:	46 kDa
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 (1) represents the longest transcript. It encodes isoform 1 (also known as E18 and p46). This variant is produced in individuals with a G allele at a polymorphic splice acceptor site in the 3' most intron(PMID:15732009).</p>