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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >NCBI ORF sequence for NM_016816, the custom clone sequence may differ by one or more nucleotides

ATGATGGATTCAGAAATACCCCGGCAATCTCTGGAGAAGATCTCTTCTGGCCAGACA
CGTGGTTCCGGCAATCTCTGGAGAAGATCTCTTCTGGCCAGACA
AGGTAGTCCTACCCGCTTGTGCTGTGCTTCTCAAGGGTAAGTGCTCTTCGCTCAAGGGTGCTCTTCTGGCCAGACA
AGGTAGTCCTACCCGCTTGTGCTGTGCTTCTCAAGGGTAAGTGCTCTTCGCTCAAGGGTGCTCTTCTGGCCAGACA
GCCGGGGAGAGTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGCATTTTCCGT
GAAGTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCCGTGCGCTCAGCTTCGTACTGAGTTCGCTCCAG
CTCGGGGGAGAGTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGCATTTTCCGT
AACCTAACCCCGAATCTATGGTCAAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTC
CACCTGCTTCCACAGCAGACACCTGGCAGACGTCTCTGGAAGGCGGCCCAACCAAGCTCAAGACTCCATCCGC
CTAGTCAACGGAGACTGGTACATGAGAAGTGGTACATTGGAACACATGAGTACC
GCTCATTTCTCTCATAGACCCAGCACACTCCAGCATCCACCCCACAGGCAGAAGAGGACTGGACCTG
CACCATCCTCCTGA

Restriction Sites: SgfI-MluI
ACCN: NM_016816
OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. More info

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.

RefSeq: NM_016816.3, NP_058132.2
RefSeq Size: 1830 bp
RefSeq ORF: 1203 bp
Locus ID: 4938
Cytogenetics: 12q24.13
Protein Families: Druggable Genome
Gene Summary: 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]

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).