

Product datasheet for **RG200696**

OAS1 (NM_002534) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OAS1 (NM_002534) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OAS1
Synonyms:	E18/E16; IFI-4; OIAS; OIASI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200696 representing NM_002534 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATGGATCTCAGAAATACCCAGCCAAATCTCTGGACAAGTTCATTGAAGACTATCTCTTGCCAGACA
CGTGTTCGCGATGCAAATCAACCATGCCATTGACATCATCTGTGGTTCCTGAAGGAAAGGTGCTTCCG
AGGTAGCTCCTACCCTGTGTGTGTCCAAGGTGGTAAAGGGTGGCTCCTCAGGCAAGGGCACCACCCTC
AGAGGCCGATCTGACGCTGACCTGGTTGTCTTCCTCAGTCCTCTCACCCTTTTCAGGATCAGTTAAATC
GCCGGGAGAGTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGACATTTTCCGT
GAAGTTTGAGGTCCAGGCTCCACGCTGGGCAACCCCGTGCCTCAGCTTCGTACTGAGTTCGCTCCAG
CTCGGGGAGGGGGTGGAGTTCGATGTGCTGCCTTTGATGCCTGGGTGAGTTGACTGGCAGCTATA
AACCTAACCCCAAACTATGTCAAAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTC
CACCTGCTTACAGAACTACAGAGAGACTTCTGAAGCAGCGCCCAACCAAGCTCAAGAGCTCATCCGC
CTAGTCAAGCACTGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGC
TCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCCAGGGATTTCCGGAC
GGTCTTGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAAC
CCCATTGAAAAGTACCTGAGAAGGCAGCTCACGAAACCCAGGCTGTGATCTGGACCCGGCGGACC
CTACAGGAAACTTGGGTGGTGGAGACCCAAAGGGTTGGAGGCAGCTGGCAAGAGGCTGAGGCCTGGCT
GAATTACCATGCTTTAAGAATTGGGATGGGTCCCCAGTGAAGCTCCTGGATTCTGCTGGTGGAGACCTCCT
GCTTCTCCCTGCCATTCATCCCTGCCCTCTCCATGAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200696 representing NM_002534
Red=Cloning site Green=Tags(s)

```
MMDLRNTPAKSLDKFIEDYLLPDTCFRMQINHAIDIICGFLKERCFRGSSYPVCVSKVVKGGSSGKGTTL
RGRSDADLVVFLSPLTTFQDQLNRRGEFIQEIRRQLEACQRERAFSVKFEVQAPRWGNPRALSFVLSLQ
LGEGVEFDVLPAFDALGQLTGSYKPNPQIYVKLIEECTDLQKEGEFSTCFTELQRDFLKQRPTKLSLIR
LVKHWYQNCKKKLGLPPQYALELLTVYAWERGSMTKHFNTAQGFRTVLELVINYQQLCIYWKYYDFKN
PIIEKYLRRQLTKPRPVILDPADPTGNLGGGDPKGWRQLAQEAEWLNYPFCFKNWDGSPVSSWILLVRPP
ASSLPFIPAPLHEA
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002534

ORF Size: 1092 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_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: 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]

Product images:



Circular map for RG200696