

## Product datasheet for RC200696

### OAS1 (NM\_002534) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OAS1 (NM_002534) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OAS1
Synonyms:	E18/E16; IFI-4; OIAS; OIASI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200696 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGATCTCAGAAATACCCAGCCAAATCTCTGGACAAGTTCATTGAAGACTATCTCTTGCCAGACA  
CGTGTTCGCGATGCAAATCAACCATGCCATTGACATCATCTGTGGTTCCTGAAGGAAAGGTGCTTCCG  
AGGTAGCTCTACCCTGTGTGTGTCCAAGGTGGTAAAGGGTGGCTCCTCAGGCAAGGGCACCACCCTC  
AGAGGCCGATCTGACGCTGACCTGGTTGTCTTCCTCAGTCCTCTCACCCTTTTCAGGATCAGTTAAATC  
GCCGGGAGAGTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGAGCATTTTCCGT  
GAAGTTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCGTGCCTCAGCTTCGTACTGAGTTCGCTCCAG  
CTCGGGGAGGGGTGGAGTTCGATGTGCTGCCTTTGATGCCTGGGTGAGTTGACTGGCAGCTATA  
AACCTAACCCCAAACTATGTCAAAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTC  
CACCTGCTTACAGAACTACAGAGAGACTTCTGAAGCAGCGCCCAACCAAGCTCAAGAGCCTCATCCGC  
CTAGTCAAGCACTGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGC  
TCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCCAGGGATTTCCGGAC  
GGTCTTGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAAC  
CCCATTATTGAAAAGTACCTGAGAAGGCAGCTCACGAAACCCAGGCTGTGATCTGGACCCGGCGGACC  
CTACAGGAAACTTGGGTGGTGGAGACCCAAAGGGTGGAGGCAGCTGGCAAGAGGCTGAGGCCTGGCT  
GAATTACCATGCTTTAAGAATTGGGATGGGTCCCCAGTGAAGTCTGCTGGATTCTGCTGGTGGAGACCTCT  
GCTTCTCCCTGCCATTCATCCCTGCCCTCTCCATGAAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_002534.3](#)

**RefSeq Size:** 1470 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 4938

**UniProt ID:** [P00973](#)

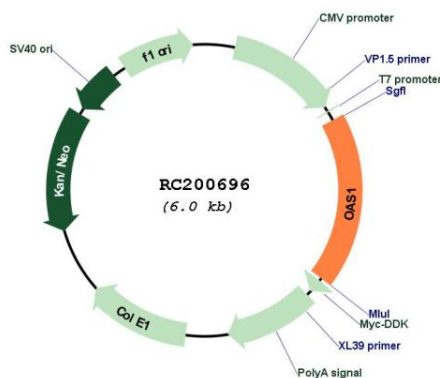
**Cytogenetics:** 12q24.13

**Protein Families:** Druggable Genome

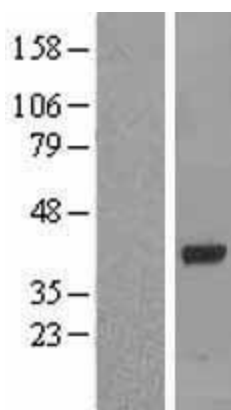
**MW:** 41.8 kDa

**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]

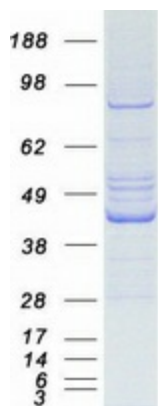
## Product images:



Circular map for RC200696



Western blot validation of overexpression lysate (Cat# [LY419268]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200696 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OAS1 protein (Cat# [TP300696]). The protein was produced from HEK293T cells transfected with OAS1 cDNA clone (Cat# RC200696) using MegaTran 2.0 (Cat# [TT210002]).