

## Product datasheet for **RG208273**

### **OAS2 (NM\_002535) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	OAS2 (NM_002535) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OAS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG208273 representing NM\_002535  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAAATGGGAGTCCAGCTGTCTCGGTGCCTGCTCAGAAGCTGGGTTGGTTTATCCAGGAATACC  
TGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGTGACGTCTGCAGGA  
ACCCGAACAGTTCCTCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTTAAGA  
GGCAACTCCGATGGTACCCTTGTCTCTTCTCAGTGACTTAAAACAATCCAGGATCAGAAGAGAAGCC  
AACGTGACATCCTCGATAAACTGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACA  
TTTCGAGATCCAGAAGTCCCTTGATGGGTTCCACATCCAGGTGTTCAAAAAATCAGAGAATCTCTTTC  
GAGGTGCTGGCCGCTTCAACGCTCTGAGCTTAAATGATAATCCAGCCCTGGATCTATCGAGAGCTCA  
AAAGATCCTTGGATAAGACAAATGCCAGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG  
GTTTTTTGACAACCGTCTGGAAAACTAAAGGATTTGATCCTCTTGATAAAGCACTGGCATCAACAGTGC  
CAGAAAAAATCAAGGATTTACCCTCGCTGTCTCCGTATGCCCTGGAGCTGCTTACGGTGTATGCCTGGG  
AACAGGGGTGCAGAAAAGACAACCTTTGACATTGCTGAAGGCGTCAGAACCCTTGGAGCTGATCAATG  
CCAGGAGAAGCTGTGATCTATTGGATGGTCAACTACAACCTTTGAAGATGAGACCATCAGGAACATCCTG  
CTGCACCAGCTCCAATCAGCGAGGCCAGTAATCTTGGATCCAGTTGACCAACCAATAATGTGAGTGGAG  
ATAAAATATGCTGGCAATGGCTGAAAAAGAAGCTCAAACCTGGTTGACTTCTCCCAACCTGGATAATGA  
GTTACCTGCACCATCTTGAATGTTCTGCCTGCACCACTTTCACGACCCAGGCCACCTTCTGGATAAG  
TTCATCAAGGAGTTTCTCAGCCCAACAATGCTTCTAGAGCAGATTGACAGTGTGTTAACATCATCC  
GTACATTCCTTAAAGAAAACGCTTCCGACAATCAACAGCCAAGATCCAGATTGTCGGGGAGGATCAAC  
CGCCAAAGGCACAGCTCTGAAGACTGGCTCTGATGCCGATCTCGTCGTGTTCCATAAATCACTTAAAGC  
TACACCTCCCAAAAAACGAGCGGCACAAAATCGTCAAGGAAATCCATGAACAGCTGAAAGCCTTTTGG  
GGGAGAAGGAGGAGGAGCTTGAAGTCAAGTCTTGAAGTCAAGTCTTGAAGTCAAGTCTTGAAGTCAAG  
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CAGCTGAGTCTGGTCCACACCCAGCCCCGAGGTTTATGCAGGGCTCATTGATCTGTATAAATCCTCGG  
ACCTCCCGGGAGGAGAGTTTTCTACCTGTTTACAGTCTGCAGCGAACTTCATTGCTCCCGGCCAC  
CAAATAAAGGATTTAATTCGCCTGGTGAAGCACTGGTACAAAGAGTGTGAAAGGAACTGAAGCCAAAG  
GGGTCTTTGCCCCAAAGTATGCCTTGGAGCTGCTCACCATCTATGCCTGGGAGCAGGGGAGTGGAGTGC  
CGGATTTTGACACTGCAGAAGGTTTCCGGACAGTCTGGAGCTGGTGCACACAATATCAGCAGCTCTGCAT  
CTTCTGGAAGGTCAATTACAACCTTTGAAGATGAGACCGTGAGGAAGTTTCTACTGAGCCAGTTGCAGAAA  
ACCAGGCTGTGATCTTGGACCCAGCCGAACCCACAGGTGACGTGGTGGGAGGGGACCGTTGGTGTGGC  
ATCTTCTGGCAAAAGAAGCAAAGGAATGGTTATCCTCTCCCTGCTTCAAGGATGGGACTGGAACCCAAT  
ACCACCTTGGAAAGTGCCGGTAAAAGTCATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208273 representing NM\_002535  
Red=Cloning site Green=Tags(s)

```

MNGESQLSSVPAQKLGWFIQEYLKPYEECQTLIDEMVNTICDVLQEPEQFPLVQGVAIGGSYGRKTVLR
GNSDGLTVLFFSDLKQFQDKRSQRDILDKTGDKLKFCFLFKWLKNNFEIQKSLDGFTIQVFTKNQRISF
EVLAAFNALSLNDNPPSPWIYRELKRSLDKTNASPGFAVCFTLQKFFDNRPGKLDLILLIKHWHQQC
QKKIKDLPSLSPYALELLTVYAWEQGCRKDNFDIAEGVRTVLELIKCEKLCIYWMVNYNFEDETIRNIL
LHQLQSARPVILDPVDPTNNVSGDKICWQWLKKEAQTWLTSPNLDNELPAPSWNVLPAPLFTTPGHLLDK
FIKEFLQPNKCFLEQIDSAVNIIRTFLEKENCFRQSTAKIQIVRGSTAKGTALKTGSDADLVVFNHSLKS
YTSQKNERHKIVKEIHEQLKAFWREKEEELEVSFEPKWKAPRVLSFLSKSVLNEVSFVDFLPAFNALG
QLSSGSTPSPEVYAGLIDLYKSSDLPGGEFSTCFVLQRNFIRSRTKLDLIRLVKHWYKECERLKP
GSLPPKYALELLTIYAWEQGSGVPDFDTAEGFRTVLELVTQYQQLCFWKVNYNFEDETVRKFLLSQLQK
TRPVILDPAEPTGDVGGDRWCWHLAKEAKEWLSSPCFKDGTGNPIPPWKVPVKVI
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002535

**ORF Size:** 2061 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\\_002535.2](#), [NP\\_002526.2](#)

**RefSeq Size:** 3647 bp

**RefSeq ORF:** 2064 bp

**Locus ID:** 4939

**UniProt ID:** [P29728](#)

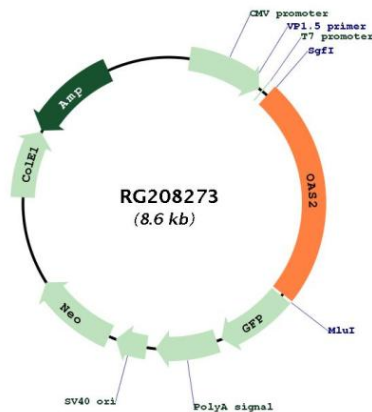
**Cytogenetics:** 12q24.13

**Domains:** NTP\_transf\_2

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the 2-5A synthetase family, essential proteins involved in the innate immune response to viral infection. The encoded protein is induced by interferons and uses adenosine triphosphate in 2'-specific nucleotidyl transfer reactions to synthesize 2',5'-oligoadenylates (2-5As). These molecules activate latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. The three known members of this gene family are located in a cluster on chromosome 12. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG208273