

## Product datasheet for RC222722

### OAS3 (NM\_006187) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OAS3 (NM_006187) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OAS3
Synonyms:	p100; p100OAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222722 representing NM_006187 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTGTACAGCACCCCGCCGCTGCGCTGGACAGGTTCTGGCCAGAAGGCTGCAGCCGCGGAAGG  
AGTTTCGTAGAGAAGGCGCGCGGCTCTGGCGCCCTGGCCGCTGCCCTGAGGGAGCGGGGGCCGCT  
CGGTGCTGCTGCCCCGCGGGTGTGAAACTGTCAAGGGAGGCTCCTCGGCCGGGCACAGCTCTCAAG  
GGTGGCTGTGATTCTGAACCTGTTCATCTCCTCGACTGCTTCAAGAGCTATGTGGACCAGAGGGCCCGCC  
GTGCAGAGATCCTCAGTGAGATCGGGCATCGCTGGAATCCTGGTGGCAGAACCCAGTCCCTGGTCTGAG  
ACTCACGTTTCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCGGCTGACATCCGTAGATCTTGAGGAC  
TGGATGGATGTTAGCCTGGTGCCTGCCCTCAATGTCTGGGTGAGCCGGCTCCGGCGTCAAACCAAGC  
CACAAGTCTACTACTCCCTCCTCAACAGTGGCTGCCAAGGGGGGAGCATGCGGCCCTGCTTACAGAGCT  
GCGGAGGAACCTTGTGAACATTCGCCAGCCAAGTTGAAGAACCTAATCTTGCTGGTGAAGCACTGGTAC  
CACCAGGTGTGCCACAGGGGTTGTGGAAGGAGACGCTGCCCGGGTCTATGCCCTGGAATTGCTGACCA  
TCTTCGCTGGGAGCAGGGCTGTAAAGAGGATGCTTTCAGCCTAGCCGAAGGCCCTCCGAAGTGTCTGGG  
CCTGATCCAACAGCATCAGCACCTGTGTGTTTTCTGGACTGTCAACTATGGCTTCGAGGACCCTGCAGTT  
GGGCAGTTCTTGACGCGCAGCTTAAGAGACCCAGGCCCTGTGATCCTGGACCCAGCTGACCCACATGGG  
ACCTGGGGAATGGGGCAGCCTGGCACTGGGATTTGCTAGCCAGGAGGCAGCATCCTGCTATGACCACCC  
ATGCTTCTGAGGGGATGGGGACCCAGTGCAGTCTTGAAGGGGCGGGCCTTCCACGTGCTGGATGC  
TCAGGTTTGGCCACCCATCCAGCTAGACCCTAACAGAAAGACCCTGAAAACAGCAAGAGCCTCAATG  
CTGTGTACCCAAGAGCAGGGAGGAAACCTCCCTCATGCCAGCTCCTGGCCCACTGGGGCAGCCAGCAT  
CGTCCCTCTGTGCCGGGAATGGCTTGGACCTGTCTCAGATCCCAAGGAGCTGGACCCTTCATC  
CAGGACCCTGAAGCCGAGCCCCAGTCCAGGAGCAGGTGAAAAGGCCATCGACATCATCTTGGCT  
GCCTCCATGAGAACTGTGTTCAAGGCCCTCAAGAGTCAGTAAAGGGGGCTCATTTGGCCGGGCACAGA  
CCTAAGGGATGGCTGTGATGTTGAACCTCATCATCTTCTCAACTGCTTACGGACTACAAGGACCAGGGG



[View online »](#)

CCCCGCCGCGCAGAGATCCTTGATGAGATGCGAGCGCAGCTAGAATCCTGGTGGCAGGACCAGGTGCCCA  
 GCCTGAGCCTTCAGTTTCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCAGCTGGTGTCCACAGCCCT  
 GAAGAGCTGGACGGATGTTAGCCTGCTGCCTGCCTTCGATGCTGTGGGCGAGCTCAGTTCCTGGCACCAAA  
 CCAATCCCCAGGTCTACTCGAGGCTCCTACCAGTGGCTGCCAGGAGGGCGAGCATAAGGCCTGCTTCG  
 CAGAGCTGCGGAGGAACCTCATGAACATTCGCCCTGTCAAGCTGAAGAACCTGATTCTGCTGGTGAAGCA  
 CTGGTACCGCCAGGTTGCGGCTCAGAACAAGGAAAAGGACCAGCCCTGCCTCTCTGCCCCAGCCTAT  
 GCCCTGGAGCTCCTCACCATCTTTGCCTGGGAGCAGGGCTGCAGCAGGATTGTTTCAACATGGCCCAAG  
 GCTTCCGACGGTGTGGGGCTCGTGAACAGCATCAGCAGCTCTGTGTCTACTGGACGGTCAACTATAG  
 CACTGAGGACCCAGCCATGAGAATGCACCTTCTGGCCAGCTTCGAAAACCCAGACCCCTGGTCTGGAC  
 CCCGCTGATCCCACCTGGAACGTGGGCCACGGTAGCTGGGAGCTTTGGCCAGGAAGCAGCAGCGCTGG  
 GGATGCAGGCTGCTTTCTGAGTAGAGACGGGACATCTGTGCAGCCCTGGGATGTGATGCCAGCCCTCT  
 TTACCAAACCCAGCTGGGGACCTTGACAAGTTCATCAGTGAATTTCTCCAGCCCAACCGCCAGTTCCTG  
 GCCAGGTGAACAAGGCCGTTGATACCATCTGTTCAATTTTGAAGAAAAGTCTCCGGAATTCTCCCA  
 TCAAAGTGATCAAGGTGGTCAAGGGTGGCTCTCAGCCAAAGGCACAGCTCTGCGAGGCCGCTCAGATGC  
 CGACCTCGTGGTGTCTCAGCTGCTTCAGCCAGTTCCTGAGCAGGGCAACAAGCGGGCCGAGATCATC  
 TCCGAGATCCGAGCCAGTTGGAGGCATGTCAACAGGAGCGGCAGTTCGAGGTCAAGTTTGAAGTCTCCA  
 AATGGGAGAATCCCCGCTGTGAGCTTCTCACTGACATCCCAGACGATGCTGGACCAGAGTGTGGACTT  
 TGATGTGCTGCCAGCCTTTCAGCCCTAGGCCAGCTGGTCTCTGGCTCCAGGCCAGCTCTCAAGTCTAC  
 GTCGACCTCATCCACAGCTACAGCAATGCGGGCGAGTACTCCACCTGCTTACAGAGCTACAACGGGACT  
 TCATCATCTCTCGCCCTACCAAGCTGAAGAGCCTGATCCGGTGGTGAAGCACTGGTACCAGCAGTGTAC  
 CAAGATCTCAAGGGGAGAGGCTCCCTACCCACAGCACGGGCTGGAACCTCTGACTGTGTATGCCTGG  
 GAGCAGGGCGGGAAGGACTCCAGTTCACATGGCTGAGGGCTCCGACGGTCTGGAGCTGGTCAACCT  
 AGTACCGCCAGCTCTGTATCTACTGGACATCAACTACAACGCCAAGGACAAGACTGTTGGAGACTCCT  
 GAAACAGCAGCTTCAGAAGCCAGGCCATCATCTGGATCCGGCTGACCCGACAGGCAACCTGGGCCAC  
 AATGCCGCTGGGACCTGCTGGCCAAGGAAGCTGCAGCCTGCACATCTGCCCTGTGCTGCATGGGACGGA  
 ATGGCATCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222722 representing NM\_006187  
 Red=Cloning site Green=Tags(s)

MDLYSTPAAALDRFVARRLQPRKEFVEKARRALGALAAALRERGGRLGAAAPRVLKTVMKGGSSGRGTALK  
 GGCDSELVIFLDFKSYVDQRARRAEILSEMRALESWWQNPVPLRLTFPEQSVPGALQFRLTSVDLED  
 WMDVSLVPAFNVLQAGSGVKPKPQVYSTLLNSGCQGEHAACFTELRNFVNIRPAKLNKILLVKHWY  
 HQVCLQGLWKETLPPVYALELLTIFAWEQGCKDAFSLAEGLRVLGLIQHQHLCVFWTVNYGFEDPAV  
 GQFLQRQLKRPRPVILDPADPTWDLGNGAAHWDLQAEEASCYDHPFLRGMGDPVQSWKGPGLPRAGC  
 SGLGHPIQLDPNQKTPENSKSLNAVYPAGRKPPSCPAPGPTGAASIVPSVPGMALDLSQIPTKELDRFI  
 QDHLKPSQFQEQVKAIDIIILRCLHENCVHKASRVSKGGSFGRGTDLRDGDVELIIFLNCFTDYKDQG  
 PRRAEILDEMRAQLESWWQDQVPSLSLQFPEQNVPEALQFLVSTALKSWTDVLSLLPAFDVAVQLSSGTK  
 PNPQVYSRLLTSGCQEGEHKACFAELRRNFMNIRPVKLNKILLVKHWYRQVAQNKGGKGPAPASLPAY  
 ALELLTIFAWEQGCRQDCFNMAQGFRTVLGLVQQHQQLCVYWTVNYSTEDPAMRMHLLGQLRKPRLVLD  
 PADPTWNVGHGSWELLAQEAAAALGMQACFLSRDGTSVQPWVMPALLYQTPAGDLDFKIFSEFLQPNRQFL  
 AQVNKAVDTICSFLEKENCFRNSPIKVIKVVKGGSSAKGTALRGRSDADLVVFLSCFSQFTEQGNKRAEII  
 SEIRAQLEACQERQFEVKFEVSKWENPRVLSFSLTSQTMLDQSVDFDVLPAFDALGQLVSGSRPSSQVY  
 VDLIHSYSNAGEYSTCFTELQRDFIISRPTKLKSILRLVKHWYQQCTKISKGRGSLPPQHGLELLTVYAW  
 EQGGKDSQFNMAEGFRTVLELVTQYRQLCIYWTINYNKDKTVGDFLKQQLQKPRPIILDADPTGNLGH  
 NARWDLAKEAAACTSALCCMGRNGIPIQPWPVKAAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

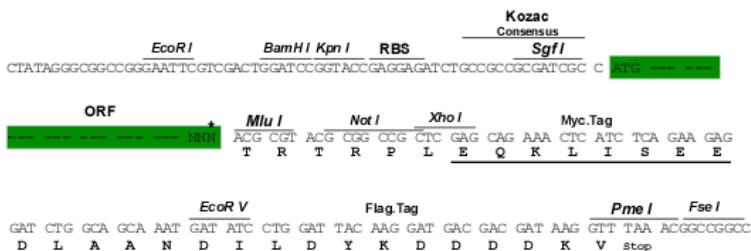
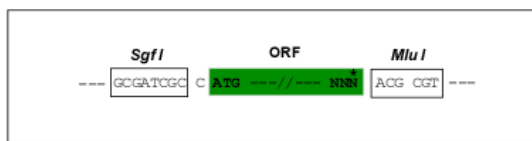
**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3128\\_c09.zip](https://cdn.origene.com/chromatograms/mg3128_c09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_006187

ORF Size: 3261 bp

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](mailto: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 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\\_006187.4](#)

**RefSeq Size:** 6646 bp

**RefSeq ORF:** 3264 bp

**Locus ID:** 4940

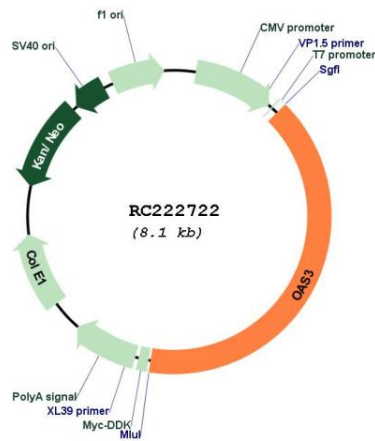
**UniProt ID:** [Q9Y6K5](#)

**Cytogenetics:** 12q24.13

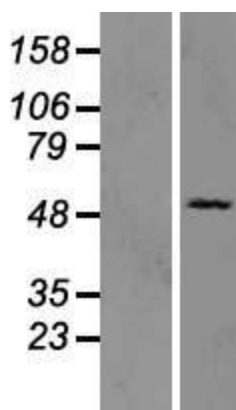
**MW:** 121 kDa

**Gene Summary:** This gene encodes an enzyme included in the 2', 5' oligoadenylate synthase family. This enzyme is induced by interferons and catalyzes the 2', 5' oligomers of adenosine in order to bind and activate RNase L. This enzyme family plays a significant role in the inhibition of cellular protein synthesis and viral infection resistance. [provided by RefSeq, Jul 2008]

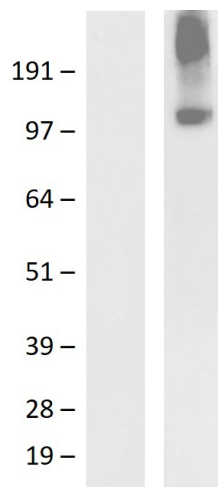
### Product images:



Circular map for RC222722



Western validation with an anti-DDK antibody \* L: Control HEK293 lysate R: Over-expression lysate



Western blot validation of overexpression lysate (Cat# [LY416808]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).