

Product datasheet for **RG222722**

OAS3 (NM_006187) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OAS3 (NM_006187) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OAS3
Synonyms: p100; p100OAS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222722 representing NM_006187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTACAGCACCCCGCCGCTGCGCTGGACAGGTTCTGGCCAGAAGGCTGCAGCCGCGGAAGG
 AGTTTCGTAGAGAAGGCGCGCGGCTCTGGGCGCCCTGGCCGCTGCCCTGAGGGAGCGGGGGCCGCT
 CGGTGCTGCTGCCCCGCGGGTGTGAAACTGTCAAGGGAGGCTCCTCGGCCGGGCACAGCTCTCAAG
 GGTGGCTGTGATTCTGAACCTGTTCCTCGACTGCTTCAAGAGCTATGTGGACCAGAGGGCCCGCC
 GTGCAGAGATCCTCAGTGAATGCGGGCATCGTGGAAATCCTGGTGGCAGAACCCAGTCCCTGGTCTGAG
 ACTCACGTTTCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCGGCTGACATCCGTAGATCTTGAGGAC
 TGGATGGATGTTAGCCTGGTGCCTGCCCTCAATGTCTGGGTGAGCCGGCTCCGGCGTCAAACCAAGC
 CACAAGTCTACTACCTCCTCAACAGTGGCTGCCAAGGGGGGAGCATGCGGCCCTGCTTACAGAGCT
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 CACCAGGTGTGCCACAGGGGTTGTGGAAGGAGACGCTGCCCGGCTATGCCCTGGAATTGCTGACCA
 TCTTCGCTGGGAGCAGGGCTGTAAAGAGGATGCTTTCAGCCTAGCCGAAGGCTCCGAAGTGTCTGGG
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CCCCGCCGCGCAGAGATCCTTGATGAGATGCGAGCGCAGCTAGAATCCTGGTGGCAGGACCAGGTGCCCA
GCCTGAGCCTTCAGTTTCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCAGCTGGTGTCCACAGCCCT
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CAAGATCTCAAGGGGAGAGGCTCCCTACCCACAGCACGGGCTGGAACCTCTGACTGTGTATGCCTGG
GAGCAGGGCGGGAAGGACTCCAGTTCACATGGCTGAGGGCTCCGACGGTCTGGAGCTGGTCAACC
AGTACCGCCAGCTCTGTATCTACTGGACATCAACTACAACGCCAAGGACAAGACTGTTGGAGACTTCTT
GAAACAGCAGCTTCAGAAGCCAGGCTTATCATCTGGATCCGGCTGACCCGACAGGCAACTGGGCCAC
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ATGGCATCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTG
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222722 representing NM_006187
 Red=Cloning site Green=Tags(s)

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MDLYSTPAAALDRFVARRLQPRKEFVEKARRALGALAAALRERGGRLGAAAPRVLKTVMKGGSSGRGTALK
GGCDSELVIFLDFKSYVDQRRARAEILSEMRSLESWWQNPVPLRLTFPEQSVPGALQFRLTSVDLED
WMDVSLVPAFNVLGQAGSGVKPKPQVYSTLLNSGCQGEHAACFTELRRNFVNIRPAKLKNIILLVKHWY
HQVCLQGLWKETLPPVYALELLTIFAWEQGCKKDAFSLAEGLRTVLGLIQHQHLVFWTVNYGFEDPAV
GQFLQRQLKRPRPVILDPADPTWDLGNGAAWHWDLAQEAASCYDHPCLFRGMGDPVQSWKGPPLPRAGC
SGLGHPIQLDPNQKTPENSKSLNAVYPRAGSKPPSCAPAGPTGAASIVPSVPGMALDLSQIPTKELDRFI
QDHLKPSPOFQEQVKAIDIILRCLHENCVHKASRVSKGGSFGRGTDLRDGDVELIIFLNCFTDYKDQG
PRRAEILDEMRAQLESWWQDQVPSLSLQFPEQNVPEALQFQLVSTALKSWTDVSLLPAFDAVQQLSSGTK
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ALELLTIFAWEQGCRQDCFNMAQGFRTVLGLVQQHQQLCVYWTVNYSTEDPAMRMHLLGQLRKPRPLVD
PADPTWNVGHGSWELLAQEAALGMQACFLSRDGTSVQPDVMPALLYQTPAGDLDFISEFLQPNRQFL
AQVNKAVDITCSFLKENCFRNSPIKVIKVVKGGSSAKGTALRGRSDADLVVFLSCFSQFTEQGNKRAEII
SEIRAQLEACQERQFEVKFEVSKWENPRVLSFSLTSQTMLDQSVDFDVLPAFDALGQLVSGSRPSSQVY
VDLIHSYSNAGEYSTCFTELQRDFIISRPTKLSLIRLVKHWYQQCTKISKGRGSLPPQHGLELLTVYAW
EQGGKDSQFNMAEGFRTVLELVQYRQLCIYWTINYNKDKTVGDFLQKQLQKPRPIILDPAADPTGNLGH
NARWDLAKEAAACTSALCCMGRNGIPIQPWPVKAAY
    
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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 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: 6657 bp

RefSeq ORF: 3264 bp

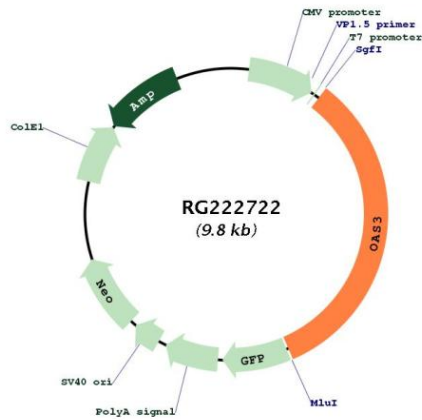
Locus ID: 4940

UniProt ID: [Q9Y6K5](#)

Cytogenetics: 12q24.13

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 RG222722