

Product datasheet for **RG205066**

Viperin (RSAD2) (NM_080657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Viperin (RSAD2) (NM_080657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Viperin
Synonyms:	cig5; cig33; vig1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205066 representing NM_080657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTGGGTGCTTACACCTGCTGCTTTTGTGGGAAGCTCTTGAGTGTGTTAGGCAACCTCTGAGCTCTC
 TGTGGAGGAGCCTGGTCCCGCTGTTCTGCTGGCTGAGGGCAACCTTCTGGCTGCGAGCTACCAAGAGGAG
 AAAGCAGCAGCTGGTCTGAGAGGGCCAGATGAGACCAAAGAGGAGGAAGAGGACCCTCCTCTGCCACAC
 ACCCAACCAGCGTCAACTATCACTTCACTCGCCAGTGCAACTACAAATGCGGCTTCTGTTCCACACAG
 CCAAAACATCCTTTGTGCTGCCCTTGAGGAAGCAAAGAGAGGATTGCTTTTGCTTAAGGAAGCTGGTAT
 GGAGAAGATCAACTTTTCAGGTGGAGAGCCATTTCTTCAAGACCGGGGAGAATACCTGGGCAAGTTGGTG
 AGGTTCTGCAAAGTAGAGTTGCGGCTGCCAGCGTGAGCATCGTGAGCAATGGAAGCCTGATCCGGGAGA
 GGTGGTTCCAGAATTATGGTGAGTATTTGGACATTCTCGCTATCTCCTGTGACAGCTTTGACGAGGAAGT
 CAATGTCTTATTGGCCGTGGCCAAGGAAAGAAGAACCATGTGGAACCTTCAAAGCTGAGGAGGTGG
 TGTAGGGATTATAGAGTCGCTTTCAAGATAAATCTGTCTTAATCGTTTCAACGTGGAAGAGGACATGA
 CGGAACAGATCAAAGCACTAAACCCTGTCCGCTGGAAAGTGTTCCAGTGCCTCTTAATTGAGGGTGAGAA
 TTGTGGAGAAGATGCTCTAAGAGAAGCAGAAAGATTTGTTATTGGTGATGAAGAATTTGAAAGATTCTTG
 GAGCGCCACAAAGAAGTGCTCTGCTTGGTGCCTGAATCTAACCAGAAGATGAAAGACTCCTACCTTATTC
 TGGATGAATATATGCGCTTTCTGAAGTGTAGAAAGGGACGGAAGGACCCTTCCAAGTCCATCCTGGATGT
 TGGTGTAGAAGAAGCTATAAAATTCAGTGGATTTGATGAAAAGATGTTTCTGAAGCGAGGAGGAAAATAC
 ATATGGAGTAAGGCTGATCTGAAGCTGGATTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205066 representing NM_080657
 Red=Cloning site Green=Tags(s)

MWVLTAAAFAGKLLSVFRQPLSSLWRSLVPLFCWLRATFWLRATKRRKQQLVLRGPDETKEEEEDPPLPT
 TPTSVNYHFTRQCNKCGFCFHTAKTSFVLPLEEAKRGLLLLKEAGMEKINFSGGEPFLQDRGEYLGKLV
 RFCKVELRLPSVSIVSNGSLIRERWFQNYGEYLDILAI SCDSFDEEVNVLIGRGQGKKNHVENLQKLRRW
 CRDYRVAFKINSVINRFNVEEDMTEQIKALNPVRWKVFQCLLIEGENCGEDALREAERFVIGDEEFERFL
 ERHKEVSCCLVPESNQMKDSYLILDEYMRFLNCRKGRKDPSSKILDVGVVEAIAIKSGFDEKMFLLKRGKGY
 IWSKADLKLDW

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080657

ORF Size: 1083 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_080657.1](#)

RefSeq Size: 3512 bp

RefSeq ORF: 1086 bp

Locus ID: 91543

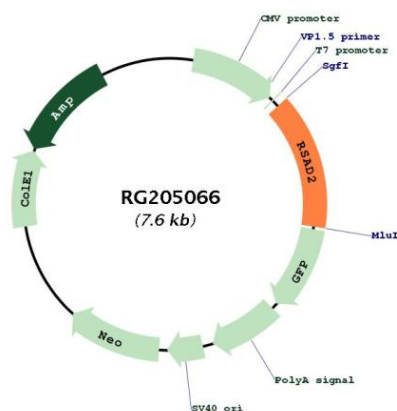
UniProt ID: [Q8WXG1](#)

Cytogenetics: 2p25.2

Domains: Elp3, Radical_SAM

Gene Summary: The protein encoded by this gene is an interferon-inducible antiviral protein that belongs to the S-adenosyl-L-methionine (SAM) superfamily of enzymes. The protein plays a role in cellular antiviral response and innate immune signaling. Antiviral effects result from inhibition of viral RNA replication, interference in the secretory pathway, binding to viral proteins and dysregulation of cellular lipid metabolism. The protein has been found to inhibit both DNA and RNA viruses, including influenza virus, human immunodeficiency virus (HIV-1) and Zika virus. [provided by RefSeq, Sep 2020]

Product images:



Circular map for RG205066