

## Product datasheet for **MG205486**

### Rnf146 (BC050795) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf146 (BC050795) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf146
Synonyms:	2610509H23Rik; Iduna
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205486 representing BC050795 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGATGGCCGGCTGTGGTGAATTGATCACTCAATAAATATGCTTCTACAAATAAGAAGGCAAATG  
AGTCTGTCCAATACTGCACCTTCTCTGACAGTTCCTGAATGTGCCATTTGTCTACAAACATGTGTTCA  
CCCTGTCAGTCTGCCCTGAAGCATGTTTTCTGTTATCTGTGTAAAGGGTCTTCATGGCTTGGGAAG  
CGATGTGCTCTTTGTCGACAAGAGATTCCTGAGGATTTCTTGACAAGCCAACCTTGTGTCACCAGAAG  
AACTTAAGGCTGCAAGCAGAGGAAATGGTGAATATGCGTGGTATTATGAAGGAAGGAATGGGTGGTGGCA  
GTATGATGAGCGCACTAGTCGGGAGCTAGAAGATGCTTTTTCCAAGGTAAAAGAACACGGAAATGTTA  
ATTGCTGGATTTCTGTATGTTGCTGATCTTGAACATGGTTCAATATAGGAGAAATGAACATGGACGTC  
GCAGGAAGATTAAGCGAGATATAATAGATATACCAAAGAAGGGAGTAGCTGGACTTAGGCTGGACTGTGA  
CACCAATACTGTAATCTAGCAAGAGAGAGTTCGCTGATGGTGCGGACAGTGGATCAGCACAGACTGGA  
GCTTCTGTTACAGTTGCAGTGCCATCTTCTACAAGGCCCTGACATCAGTTGATGGTCAGTTAACAGCC  
CTGTAACACCATCCCCTGATGCAGGCATTTCTTTGGAAGACTCTTTGCTCATTTACAACCTCAGTGGAGA  
CAGCATAGCTGAACGGAGTCACAGAGGTGAAGGAGAAGAAGATCATGAATCGCCATCTTCTGGCAGAGTA  
CCAGATACCTCCGTTGAAGAAACAGAATCAGATGCCAGTAGTGATAGTGAGGATGCCCTGTGGTAGTTG  
CACAGCACTCTTTGACCCAACAGAGACCTTTGGTTCCAATGGAACACAGACAGTAGCCGACCAAGTCAGA  
CCGATCAGGAACCTGACCGATCAGTTGCAGGGGGTGGGACCATGAGTGCAATGTCAGATCCAGAAGGCCT  
GATGGGCAGTGACAGTGCAGAGGTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205486 representing BC050795  
Red=Cloning site Green=Tags(s)

MEMAGCGEIDHSINMLPTNKKANESCSNTAPSLTVPECAICLQTCVHPVSLPCKHVFCYLCVKGASWLGK  
 RCALCRQEIPEDFLDKPTLLSPEELKAASRGNGEYAWYYEGRNGWWQYDERTSRELEDAFSKGKKNTEML  
 IAGFLYVADLENMVQYRRNEHGRRRKIKRDIIDIPKKGVAGLRLCDTNTVNLARESSADGADSGSAQTG  
 ASVQLAVPSSTRPLTSVDGQLTSPVTPSPDAGISLEDSFAHLQLSGDSIAERSHRGEGEEDHESPSSGRV  
 PDTSVREETESDASSDSEDAPVVVAQHSLTQQRPLVPNGNQTQVADQSDRSGLTDRSVAGGGTMSVNVRSRRP  
 DGQCTVTEV

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3031\\_c02.zip](https://cdn.origene.com/chromatograms/ja3031_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC050795

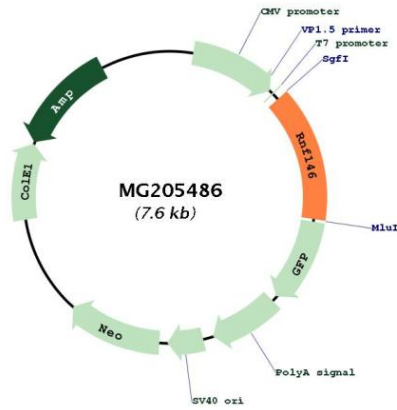
**ORF Size:** 1077 bp

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC050795</a> , <a href="#">AAH50795</a>
<b>RefSeq Size:</b>	2355 bp
<b>RefSeq ORF:</b>	1079 bp
<b>Locus ID:</b>	68031
<b>Cytogenetics:</b>	10 A4
<b>Gene Summary:</b>	<p>E3 ubiquitin-protein ligase that specifically binds poly-ADP-ribosylated (PARsylated) proteins and mediates their ubiquitination and subsequent degradation. May regulate many important biological processes, such as cell survival and DNA damage response. Acts as an activator of the Wnt signaling pathway by mediating the ubiquitination of PARSylated AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex. Acts in cooperation with tankyrase proteins (TNKS and TNKS2), which mediate PARSylation of target proteins AXIN1, AXIN2, BLZF1, CASC3, TNKS and TNKS2. Recognizes and binds tankyrase-dependent PARSylated proteins via its WWE domain and mediates their ubiquitination (By similarity). May regulate TNKS and TNKS2 subcellular location, preventing aggregation at a centrosomal location. Neuroprotective protein. Protects the brain against N-methyl-D-aspartate (NMDA) receptor-mediated glutamate excitotoxicity and ischemia, by interfering with PAR-induced cell death, called parthanatos. Prevents nuclear translocation of AIFM1 in a PAR-binding dependent manner. Does not affect PARP1 activation (By similarity). Protects against cell death induced by DNA damaging agents, such as N-methyl-N-nitro-N-nitrosoguanidine (MNNG) and rescues cells from G1 arrest. Promotes cell survival after gamma-irradiation. Facilitates DNA repair. Neuroprotective protein. Protects the brain against N-methyl-D-aspartate (NMDA) receptor-mediated glutamate excitotoxicity and ischemia, by interfering with PAR-induced cell death, called parthanatos. Prevents nuclear translocation of AIFM1 in a PAR-binding dependent manner. Does not affect PARP1 activation.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG205486