

Product datasheet for **RG233868**

RNF146 (NM_001242845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF146 (NM_001242845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233868 representing NM_001242845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCTGTGGTGAATTGATCATTCAATAAACATGCTTCTACAAACAGGAAAGCGAACGAGTCCT
GTTCTAACTGCACCTTCTTTAACCGTCCCTGAATGTGCCATTTGTCTGCAAACATGTGTTTCATCCAGT
CAGTCTGCCCTGTAAGCACGTTTTCTGCTATCTATGTGTAAAAGGAGCTTCATGGCTTGGAAAGCGGTGT
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AGGCAGCAAGTAGAGGAAATGGTGAATATGCATGGTATTATGAAGGAAGAAATGGGTGGTGGCAGTACGA
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AGATTAAGCGAGATATAATAGATATACCAAAGAAGGGAGTAGCTGGACTTAGGCTAGACTGTGATGCTAA
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CATCCCCTGATGCAAGCACTTCTCTGGAAGACTCTTTTGCTCATTTACAACCTCAGTGGAGACAACACAGC
TGAAAGGAGTCATAGGGGAGAAGGAGAAGAAGATCATGAATCACCATCTTCAGGCAGGGTACCAGCACCA
GACACCTCCATTGAAGAACTGAATCAGATGCCAGTAGTGATAGTGAGGATGTATCTGCAGTTGTTGCAC
AGCACTCCTTGACCAACAGAGACTTTTGGTTTCTAATGCAAACAGACAGTACCCGATCGATCAGATCG
ATCGGGAAGTATCGATCAGTAGCAGGGGTGGAACAGTGAGTGTGAGTGTGATCTAGAGGCCTGAT
GGACAGTGCACAGTAACTGAAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233868 representing NM_001242845
 Red=Cloning site Green=Tags(s)

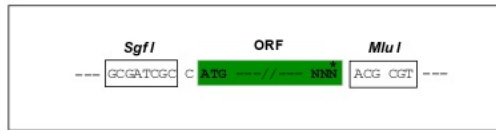
MAGCGEIDHSINMLPTNRKANESCSNTAPSLTVPECAICLQTCVHPVSLPCKHVFCYLCVKGASWLGKRC
 ALCRQEIPEDFLDKPTLLSPEELKAASRNGEYAWYYEGRNGWQYDERTSRELEDAFSKGKKNTEMLIA
 GFLYVADLENMVQYRRNEHGRRRRIKRDIIIDIPKKGAVGLRLDCDANTVNLARESSADGADSVSAQSGAS
 VQPLVSSVRPLTSVDGQLTSPATPSPDASTSLEDSFAHLQLSGDNTAERSHRGEGEEDHESPSSGRVPAP
 DTSIEETESDASSEDVSAVVAQHSLTQQRLLVSNANQTVPRSDRSRGTDRSVAGGGTVSVSVRSRRPD
 GQCTVTEV

TRTRPLE - GFP Tag - V

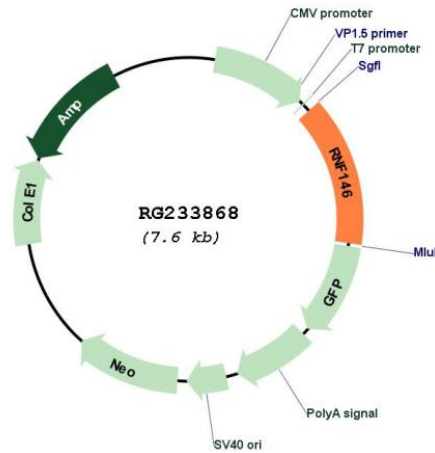
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001242845

ORF Size:	1074 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:	<ol style="list-style-type: none">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_001242845.1 , NP_001229774.1
RefSeq Size:	2519 bp
RefSeq ORF:	1077 bp
Locus ID:	81847
UniProt ID:	Q9NTX7
Cytogenetics:	6q22.33
Protein Families:	Druggable Genome

Gene Summary:

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, leading to their degradation. Different ubiquitin linkage types have been observed: TNKS2 undergoes ubiquitination at 'Lys-48' and 'Lys-63', while AXIN1 is only ubiquitinated at 'Lys-48'. 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.[UniProtKB/Swiss-Prot Function]