

## Product datasheet for **RN214781**

### **Rnf146 (NM\_001012060) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf146 (NM\_001012060) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rnf146  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214781 representing NM\_001012060  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAATGATGGCCGGCTGTGGTGAATGATCACTCACTAAATATGCTTCTACCAATAAGAAGCGA  
GTGAGACCTGTTCTAACACTGCACCTTCTAACAGTTCCCGAGTGTGCCATTTGTCTACAACATGTGT  
TCATCCAGTCAGTCTGCCCTGTAAGCATGTTTTCTGTTATCTGTGTGTAAGGGCGCTTCATGGCTCGGG  
AAGCGATGTGCTCTTTGTCGGCAAGAGATTCCTGAGGATTTTCTTGACAAGCCAACCTTGTGTACCAG  
AAGAACTTAAGGCTGCAAGCAGAGGAAATGGTGAATATGTGTGGTATTATGAAGGAAGAAATGGATGGTG  
GCAGTATGATGAGCGCACAGTCCGGAGCTAGAAGATGCTTTTTCCAAAGGTAAAAAGAACCGAAATG  
TTAATTGCTGGATTTCTGTACGTTGCTGATCTTGAACATGGTTCAATATAGGAGAAATGAACATGGAC  
GTCGCAGAAAGATTTAAAGAGATATAATAGATATACCAAAGAAGGGAGTGGCTGGACTTCGGCTGGACTG  
TGACAGCAACTGTAATCTAGCCAGAGAGATTCTGCCGATGGTCCGACAGTGGTCCAGCACACACT  
GGAGCTTCTGTGAGCTCCAGTGCCATCTTCTACAAGGCCTTAACATCAGTCGATGGTCAGTTAACCA  
GCCCTGTAACACCGTCCCCTGATGCAGGGCCTTTTGAAGACTCTTTGCTCATTACAACCTCAGTGG  
AGACAGCATAGCTGAAAGGAGTCATAGAGGTGAAGGAGAAGAAGTACCGAATCACCATCTTCTGGTAGA  
GTACCAGATACGTCCTGAAAGAAACAGAGTCCGATGCCAGTAGTGATATTGAGGATGCCCTGTGGTGG  
TTGCACAGCACTCCTTGACCCAACAGAGACTTTTGGTTTCAAGTGCAAAATCAGACAGTAGCTGAACGGTC  
TGACCGACCAGTTGCAGGGGGTGGGACCATGAGTGTCAATGTCAGATCCAGAAGGCCTGACGGACAGTGC  
ACAGTGACAGAGGTT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001012060  
**Insert Size:** 1068 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001012060.2</a></u> , <u><a href="#">NP_001012060.2</a></u>
<b>RefSeq Size:</b>	1889 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	308051
<b>UniProt ID:</b>	<u><a href="#">Q5XIK5</a></u>
<b>Cytogenetics:</b>	1p11
<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. 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. 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 (By similarity).[UniProtKB/Swiss-Prot Function]</p>