

Product datasheet for **MC205144**

Rnf146 (NM_026518) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf146 (NM_026518) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf146
Synonyms:	2610509H23Rik; Iduna
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC050795
 GACTTTTCTTGTGCCTTTTTGTATAAGGAACAAGCGGTAGTCTCTCCAAGGGCACGGCCAAAGGAAACA
 TAGGACTTGACCCAAGGCTGAGTTTTGGAAAGGCTCTTCTTCTGGTACTGAAGGTCTAGCTTCTCCCA
 CAAGCCACCTAGATGGACCTCCACCAGTTCAGAACCAGGAGGCCACAAGATGCGCCACGCAGAGGGTGAG
 GGAGGACCGGAACAGGGACAAGGAGCAGCCCGGTGCGAGCAAGGGACAGAGAAGAGCAGCAGCCAGCGTG
 GGGACCGCCAGCCAGGGCCGCCGCGCGGGATCACGGTGAGGGGGCGTGGCTTCCGCCGCGCGGCCCC
 GCCCTTGAGCGCCGGCGGTACAGTGACGGCCGCGCGTCCCGTCCGCTGCGGGCTCGGAAGCGGAG
 GAGAAAAGACTGCGAGGTGGCTGCGGCGCGGCCGAGAGCACAGAGAATGAACCAGCAGCACGAGAGAGA
 ACACTGCAAATTAGCTGACAGCTGGTGAAGAAGATGCTTTATTCTCGTGACCGGCGCCTGTGGGATCTGT
 GATGGGAATGTAAGAATAGCCTCTAGAGCATCACAGCTTCGCTGAAGCCAATGGAGATGGCCGGCTGTGG
 TGAATTGATCACTCAATAAATATGCTTCTACAATAAGAAGGCAATGAGTCTGTTCAAATACTGCA
 CCTTCTCTGACAGTTCCTGAATGTGCCATTTGTCTACAAACATGTGTTCCACCTGTCAGTCTGCCCTGTA
 AGCATGTTTTCTGTTATCTGTGTGTAAGGGTGTTCATGGCTTGGGAAGCGATGTGCTCTTTGTCGACA
 AGAGATTCCTGAGGATTTCTTGACAAGCCAACCTTGTGTCACCAGAAGAACTTAAGGCTGCAAGCAGA
 GGAATGGTGAATATGCGTGGTATTATGAAGGAAGGAATGGTGGTGGCAGTATGATGAGCGCACTAGTC
 GGGAGCTAGAAGATGCTTTTCCAAAGGTAAAAAGAACACGGAAATGTTAATTGCTGGATTTCTGTATGT
 TGCTGATCTTGAAAACATGGTTCAATATAGGAGAAATGAACATGGACGTCGACAGGAAGATTAAGCGAGAT
 ATAATAGATATACCAAAGAAGGGAGTAGCTGGACTTAGGCTGGACTGTGACACCAATACTGTAATCTAG
 CAAGAGAGAGTTCTGCTGATGGTGCGGACAGTGGATCAGCACAGACTGGAGCTTCTGTTCCAGCTTGCACT
 GCCATCTTCTACAAGGCCCTGACATCAGTTGATGGTCAGTTAACAGCCCTGTAACACCATCCCCTGAT
 GCAGGCATTTCTTTGGAAGACTCTTTGCTCATTTACAACCTCAGTGGAGACAGCATAGCTGAACGGAGTC
 ACAGAGGTGAAGGAGAAGAAGATCATGAATCGCCATCTTCTGGCAGAGTACCAGATACCTCCGTTGAAGA
 AACAGAAATCAGATGCCAGTAGTGATAGTGAGGATGCCCTGTGGTAGTTGCACAGCACTTTGACCCAA
 CAGAGACCTTTGGTTCCAATGGAAACCAGACAGTAGCCGACCAGTCAGACCGATCAGGAACCTGACCGAT
 CAGTTGCAGGGGGTGGGACCATGAGTGTCAATGTGAGTCCAGAAGCCCTGATGGCAGTGCACAGTGCAC
 AGAGGTTTAAAGCAATGTCTTCCGACCCACTCAAGGGTAAAATGGATACCTGTAAATTTCTGCCACG
 TAACATTATACTCATCTTAGTAGTGCGTTGTGGGAGTTGGGGGGAAGGGATATGGGAAAGACAGACCT
 GAAATTAATGTCTAACATGTCTCTGCTGAAATTTATTTAATGTGAGGAACTGGGGTGTGATAGTTGA
 GAGCTGTTCAGTATAACACAGTTTTCTTGACATCTGTTTATAGTGTATTTTTTAAAGTTTTAGTCTTT
 TGGCTAGTGTGCCCTGTGCATTAATGGTCTCATCTGACTCTTGCACTACTTATTTTTTCTGCATGGAT
 TGGTATAAAATCTCAATAAAATTTGGCACCTGTGAGATATTTGATATCATTATGAGCAGGAAGCTTGAT
 GTGAATTTGGGATTTTAAATAGATGATTAACAACATATAGTTGGTCTTCTTGAGATAGAAATGTAAGCT
 GCAGCTAATAAGTTTCAGAACTGTAAACCACTTCATGGTGTTCCTTCCATAAGATTTGCTGTCTTGTG
 CTTGACTTGGAGGTTTCTTAGTCTGCATTTTTCTTTTATTAAAAAATTTATAATTTAATAAAT
 ACTAGAGTTTATCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Sfil-Sfil

ACCN: NM_026518

Insert Size: 1080 bp

OTI Disclaimer: 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).

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: [BC050795](#), [AAH50795](#)

RefSeq Size: 2355 bp

RefSeq ORF: 1080 bp

Locus ID: 68031

UniProt ID: [Q9CZW6](#)

Cytogenetics: 10 A4

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 (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]

Transcript Variant: This variant (4) has an alternate splice site and also lacks an exon in the 5' UTR, compared to variant 1. All variants encode the same protein.