

## Product datasheet for MR221142

### Rnf146 (NM\_001110197) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf146 (NM_001110197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf146
Synonyms:	2610509H23Rik; Iduna
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221142 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGATGGCCGGCTGTGGTGAATTGATCACTCAATAAATATGCTTCTACAAATAAGAAGGCAAATG  
AGTCCTGTTCCAATACTGCACCTTCTCTGACAGTTCCTGAATGTGCCATTTGTCTACAAACATGTGTTCA  
CCCTGTCAGTCTGCCCTGAAGCATGTTTTCTGTTATCTGTGTAAAGGGTCTCATGGCTTGGGAAG  
CGATGTGCTCTTTGTCGACAAGAGATTCCTGAGGATTTCTTGACAAGCCAACCTTGTGTCACCAGAAG  
AACTTAAGGCTGCAAGCAGAGGAAATGGTGAATATGCGTGGTATTATGAAGGAAGGAATGGGTGGTGGCA  
GTATGATGAGCGCACTAGTCGGGAGCTAGAAGATGCTTTTTCCAAGGTAAAAGAACACGGAAATGTTA  
ATTGCTGGATTTCTGTATGTTGCTGATCTTGAACATGGTTCAATATAGGAGAAATGAACATGGACGTC  
GCAGGAAGATTAAGCGAGATATAATAGATATACCAAAGAAGGGAGTAGCTGGACTTAGGCTGGACTGTGA  
CACCAATACTGTAATCTAGCAAGAGAGAGTTCGCTGATGGTGCGGACAGTGGATCAGCACAGACTGGA  
GCTTCTGTTGAGTTCAGTGCAGTGCCATCTTCTACAAGGCCCTGACATCAGTTGATGGTCAGTTAACAGCC  
CTGTAACACCATCCCCTGATGCAGGCATTTCTTTGGAAGACTCTTTGCTCATTTACAACCTCAGTGGAGA  
CAGCATAGCTGAACGGAGTCACAGAGGTGAAGGAGAAGAAGATCATGAATCGCCATCTTCTGGCAGAGTA  
CCAGATACCTCCGTTGAAGAAACAGAATCAGATGCCAGTAGTATAGTGAGGATGCCCTGTGGTAGTTG  
CACAGCACTCTTTGACCCAACAGAGACCTTTGGTTCCAATGGAACACAGACAGTAGCCGACCAAGTCAGA  
CCGATCAGGAACCTGACCGATCAGTTGCAGGGGGTGGGACCATGAGTGCAATGTCAGATCCAGAAGGCCT  
GATGGGCAGTGCACAGTACAGAGGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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:** [NM\\_001110197.1](#), [NP\\_001103667.1](#)

**RefSeq Size:** 4420 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 68031

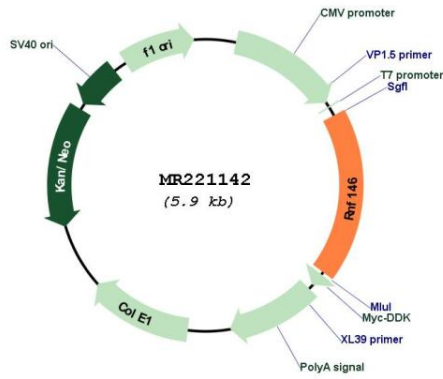
**UniProt ID:** [Q9CZW6](#)

**Cytogenetics:** 10 A4

**MW:** 38.9 kDa

**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]

Product images:



Circular map for MR221142