

Product datasheet for MC227264

Rnf146 (NM_001284279) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf146 (NM_001284279) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rnf146
Synonyms:	2610509H23Rik; Iduna
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227264 representing NM_001284279 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATGGCCGGCTGTGGTGAATTGATCACTCAATAAATATGCTTCCTACAAATAAGAAGGCAAATG
AGTCCTGTTCCAATACTGCACCTTCTCTGACAGTTCCTGAATGTGCCATTTGTCTACAAACATGTGTTCA
CCCTGTCAGTCTGCCCTGTAAGCATGTTTTCTGTTATCTGTGTGTAAAGGGTGCTTCATGGCTTGGGAAG
CGATGTGCTCTTTGTCGACAAGAGATTCCTGAGGATTTTCTTGACAAGCCAACCTTGTTGTCACCAAGAG
AACTTAAGGCTGCAAGCAGAGGAAATGGTGAATATGCGTGGTATTATGAAGGAAGGAATGGGTGGTGGCA
GTATGATGAGCGCACTAGTCGGGAGCTAGAAGATGCTTTTTCCAAAGGTAAAAAGAACACGGAATGTTA
ATTGCTGGATTTCTGTATGTTGCTGATCTTGAAAACATGGTTCAATATAGGAGAAATGAACATGGACGTC
GCAGGAAGATTAAGCGAGATATAATAGATATACAAAGAAGGGAGTAGCTGGACTTAGGCTGGACTGTGA
CACCAATACTGTAATCTAGCAAGAGAGAGTTCCTGCTGATGGTGCGGACAGTGGATCAGCACAGACTGGA
GCTTCTGTTCACTTGCAGTGCCATCTTCTACAAGGCCCTGACATCAGTTGATGGTCAGTTAACACGCC
CTGTAACACCATCCCCTGATGCAGGCATTTCTTTGGAAGACTCTTTGCTCATTTACAACCTCAGTGGAGA
CAGCATAGCTGAACGGAGTCACAGAGGTGAAGGAGAAGAAGATCATGAATCGCCATCTTCTGGCAGAGTA
CCAGATACCTCCGTTGAAGAAACAGAATCAGATGCCAGTAGTGATGAGGATGCCCTGTGGTAGTTG
CACAGCACTCTTTGACCCAACAGAGACCTTTGGTTCCAAATGGAACACAGACAGTAGCCGACCAAGTCAGA
CCGATCAGGAACCTGACCGATCAGTTGCAGGGGGTGGGACCATGAGTGTCATGTGATCCAGAAGGCCT
GATGGGCAGTGACAGTGCAGAGGTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	NM_001284279
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001284279.1</u> , <u>NP_001271208.1</u>
RefSeq Size:	3932 bp
RefSeq ORF:	1080 bp
Locus ID:	68031
UniProt ID:	<u>Q9CZW6</u>
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 (5) has an alternate 5' UTR exon, compared to variant 1. All variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.