

## Product datasheet for **MR204022**

### **Rnf144a (NM\_080563) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf144a (NM\_080563) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rnf144a  
**Synonyms:** Rnf144; Ubce7ip4; UIP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR204022 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCACAGCAAGGTACCGGCCACCTGGGACCTGGCCCTCGACCCACTGGTGTCTGCAAGCTGTGCC  
TCGGGGAATACCCAGCGGAGCAGATGACAACCATCGCCAATGCCAGTGCATCTTCTGTACCCTGTGCCT  
GAAACAGTATGTTGAGCTCTTGATCAAAGAAGGGCTAGAACTGCAATTAGCTGCCCGGATGCTGCCTGT  
CCCAAACAGGGCCACCTCAGGAGAATGAGATTGAGTGTATGGTTGCCGAGAAAATAATGCAGAGATATA  
AAAAGCTACAATTTGAAAGAGAGGTGCTCTTTGACCCCTGTGCGACGTGGTGCCAGCATCCACCTGCCA  
GGCCGTGTGCCAACTCCAGGACATAGGGCTGCAGACCCCGCAGCTGGTACAGTGCAAAGCCTGTGACATG  
GAATTCTGCTCTGCTTGCAAAGCCCGCTGGCACCCCTGGCCAAGGCTGCCAGAGACCATGCCCATCATAT  
TCCTTCCCGGAGAGACCAGCTCTGCTTTCAAGATGGAAGAGGGCGACGCACCCATCAAACGCTGCCCAA  
GTGCAGGGTGTACATCGAGCGGGATGAGGGCTGTGCACAGATGATGTGTAAGAAGTGAAGCATGCCTTC  
TGCTGGTACTGCCTGGAGTCTCTGGATGATGATTTCTTCTGATACATTATGACAAGGGGCCCTGCCGCA  
ACAAGCTGGGCCACTCCCGAGCATCAGTGTCTGGCATCGGACACAGGTGGTGGGAATTTTGTCTGGATT  
TGGGCTCTGCTCTTAGTGGCTCCCTTTCTGCTCCTGGCCACACCCCTCGTCTTTGCTGCAAAATGC  
AAGTGCAGTAAAGGTGACGACGACCCACTGCCACC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**



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**Protein Sequence:** >MR204022 protein sequence  
 Red=Cloning site Green=Tags(s)

MTTARYRPTWDLALDPLVSKLCLGEYPAEQMTTIAQCQCIFCTLCLKQYVELLIKEGLETAISCPDAAC  
 PKQGHLENEIECMVAEIMQRYKQLQFEREVLFDPCRTWCPASTCQAVCQLQDIGLQTPQLVQCKACDM  
 EFC SACKARWHPGQCPETMPITFLPGETSSAFKMEEGDAPIKRCPKCRVYIERDEGCAQMMCKNCKHAF  
 CWYCLESLEDDDFLLIHDKGPCRNKLGHSRASVIWHRTQVVGIFAGFGLLLLVASPFLLLATPFVLCCKK  
 KCSKGDDDDPLPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_080563

**ORF Size:** 879 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:**

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\\_080563.4](#), [NP\\_542130.1](#)

**RefSeq Size:** 5115 bp

**RefSeq ORF:** 879 bp

**Locus ID:** 108089

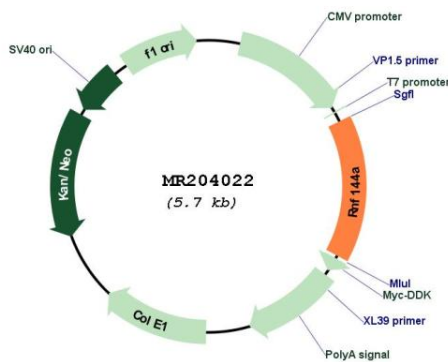
**UniProt ID:** [Q925F3](#)

**Cytogenetics:** 12 A2

**MW:** 32.8 kDa

**Gene Summary:** E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Mediates the ubiquitination and degradation of the DNA damage kinase PRKDC.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204022