

Product datasheet for MR229053

Rnf144a (NM_001081977) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rnf144a (NM_001081977) 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: | >MR229053 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCACAGCAAGGTACCGGCCACCTGGGACCTGGCCCTCGACCCACTGGTGTCTGCAAGCTGTGCC
TCGGGGAATACCCAGCGGAGCAGATGACAACCATCGCCAATGCCAGTGCATCTTCTGTACCCTGTGCCT
GAAACAGTATGTTGAGCTCTTGATCAAAGAAGGGCTAGAACTGCAATTAGCTGCCCGGATGCTGCCTGT
CCCAAACAGGGCCACCTCAGGAGAATGAGATTGAGTGTATGGTTGCCGAGAAAATAATGCAGAGATATA
AAAAGCTACAATTTGAAAGAGAGGTGCTCTTTGACCCCTGTGCGACGTGGTGCCAGCATCCACCTGCCA
GGCCGTGTGCCAACTCCAGGACATAGGGCTGCAGACCCCGCAGCTGGTACAGTGCAAAGCCTGTGACATG
GAATTCGCTCTGCTTGCAAAGCCCGCTGGCACCCCTGGCCAAGGCTGCCAGAGACCATGCCCATCATAT
TCCTTCCCGGAGAGACCAGCTCTGCTTTCAAGATGGAAGAGGGCGACGCACCCATCAAACGCTGCCCAA
GTGCAGGGTGTACATCGAGCGGGATGAGGGCTGTGCACAGATGATGTGTAAGAACTGCAAGCATGCCTTC
TGCTGGTACTGCCTGGAGTCTCTGGATGATGATTTCTTCTGATACATTATGACAAGGGGCCCTGCCGCA
ACAAGCTGGGCCACTCCCGAGCATCAGTGTCTGGCATCGGACACAGGTGGTGGGAATTTTGTCTGGATT
TGGGCTCTGCTCTTAGTGGCTCCCTTTCTGCTCCTGGCCACACCCTTCTGCTTTGCTGCAAAATGC
AAGTGCAGTAAAGGTGACGACACCCACTGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229053 protein sequence
Red=Cloning site Green=Tags(s)

MTTARYRPTWDLALDPLVSKLCLGEYPAEQMTTIAQCQCIFCTLCLKQYVELLIKEGLETAISCPDAAC
 PKQGHLENEIECMVAEIMQRYKQLQFEREVLFDPCRTWCPASTCQAVCQLQDIGLQTPQLVQCKACDM
 EFC SACKARWHPGQCPETMPITFLPGETSSAFKMEEGDAPIKRCPKCRVYIERDEGCAQMMCKNCKHAF
 CWYCLESLEDDDFLLIHDKGPCRNKLGHSRASVIWHRTQVVGIFAGFGLLLL VASPFLLLATPFVLCCKK
 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_001081977

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_001081977.2](#), [NP_001075446.1](#)

RefSeq Size: 5189 bp

RefSeq ORF: 879 bp

Locus ID: 108089

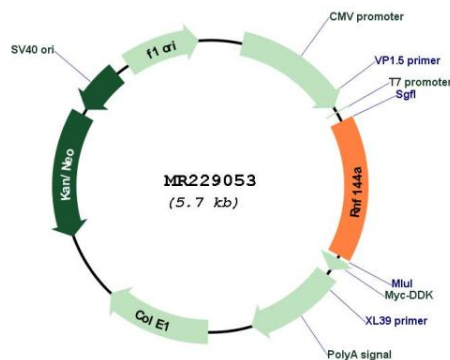
UniProt ID: [Q925F3](#)

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 MR229053