

Product datasheet for **MG204022**

Rnf144a (NM_080563) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf144a (NM_080563) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnf144a
Synonyms: Rnf144; Ubce7ip4; UIP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204022 representing NM_080563
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCACAGCAAGGTACCGGCCACCTGGGACCTGGCCCTCGACCCACTGGTGTCTGCAAGCTGTGCC
 TCGGGGAATACCCAGCGGAGCAGATGACAACCATCGCCAATGCCAGTGCATCTTCTGTACCCTGTGCCT
 GAAACAGTATGTTGAGCTCTTGATCAAAGAAGGGCTAGAACTGCAATTAGCTGCCCGGATGCTGCCTGT
 CCCAAACAGGGCCACCTCAGGAGAATGAGATTGAGTGTATGGTTGCCGAGAAAATAATGCAGAGATATA
 AAAAGCTACAATTTGAAAGAGAGGTGCTCTTTGACCCCTGTGCGACGTGGTGCCAGCATCCACCTGCCA
 GGCCGTGTGCCAACTCCAGGACATAGGGCTGCAGACCCCGCAGCTGGTACAGTGCAAAGCCTGTGACATG
 GAATTCGCTCTGCTTGCAAAGCCCGCTGGCACCCCTGGCCAAGGCTGCCAGAGACCATGCCCATCATAT
 TCCTTCCCGGAGAGACCAGCTCTGCTTTCAAGATGGAAGAGGGCGACGCACCCATCAAACGCTGCCCAA
 GTGCAGGGTGTACATCGAGCGGGATGAGGGCTGTGCACAGATGATGTGTAAGAAGTGAAGCATGCCTTC
 TGCTGGTACTGCCTGGAGTCTCTGGATGATGATTTCTTCTGATACATTATGACAAGGGGCCCTGCCGCA
 ACAAGCTGGGCCACTCCCGAGCATCAGTGTCTGGCATCGGACACAGGTGGTGGGAATTTTGTCTGGATT
 TGGGCTCTGCTCTTAGTGGCTCCCTTTCTGCTCCTGGCCACACCCCTCGTCTTTGCTGCAAAATGC
 AAGTGCAGTAAAGGTGACGACGCCCACTGCCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204022 representing NM_080563
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MTTARYRPTWDLALDPLVSKLCLGEYPAEQMTTIAQCQCFCTLCLKQYVELLIKEGLETAISCPDAAC
 PKQGHLENEIECMVAEIMQRYKQLQFEREVLFDPCRTWCPASTCQAVCQLQDIGLQTPQLVQCKACDM
 EFC SACKARWHPGQCPETMPITFLPGETSSAFKMEEGDAPIKRCPKCRVYIERDEGCAQMMCKNCKHAF
 CWYCLESLEDDDFLLIHDKGPCRNKLGHSRASVIWHRTQVVGIFAGFGLLLL VASPFLLLATPFVLCCKC
 KCSKGDDDDPLPT

TRTRPLE - GFP Tag - V

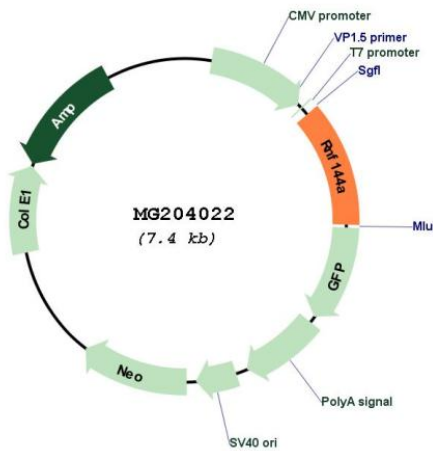
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_080563

ORF Size: 876 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:	<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.
RefSeq:	NM_080563.4 , NP_542130.1
RefSeq Size:	5089 bp
RefSeq ORF:	879 bp
Locus ID:	108089
UniProt ID:	Q925F3
Cytogenetics:	12 A2
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]