

## Product datasheet for MR202758

### Rnf114 (NM\_030743) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf114 (NM_030743) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf114
Synonyms:	1110008J21Rik; AI225886; AW549494; Zfp228; Zfp313; Znf228
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202758 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCGGCGCGCAGCCGGAGTCCCGAGATGGAGCCGCGCAGTCGGCGAAGCCGGCGTCCGAGACGGACC  
CCCTCAGCCGCTTACGTGTCCCGTGTGCCTGGAAGTATTCGAGAAGCCGGTGCAGGTGCCCTGCGGACA  
CGTCTTTTGTCTGCATGCCTGCAGGAATGTCTGAAGCCGAAGAACTGTCTGTGGGTGTGTCGCAGC  
GCTCTGGCACCTGGCGTCCGAGCTGTGGAGCTCGAGCGGCAGATCGAGAGCATAGAGACTTCTTGCCATG  
GCTGCCGTAAGAATTTATCCTATCTAAGATCCGGGCCATGTGACGTCATGTTCCAAATACCAGAATTA  
CATCATGGAAGGTGTAAGGCCACCACCAAGGATGCATCCCTTCAGCCGAGAAACATCCCAAACCGATAC  
ACCTTTCCTTGTCTTACTGTCCCGAGAAGAACTTTGATCAGGAAGGACTCGTGGAGCACTGCAAACCTCA  
CTCACAGCACCGATACCAAGTCTGTGGTTTGTCCCATCTGTGCCTCGATGCCCTGGGGAGACCCAGCTA  
CCGAGTGCCAACTTCATGGAGCATATCCAACGCCGTACCGCTTTTCTACGACACTTTTGTGGATTAC  
GATGTTGATGAAGATGACATGATAAACCAGGTGTTGCAGCGCTCCATCATTGACCAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR202758 protein sequence  
 Red=Cloning site Green=Tags(s)

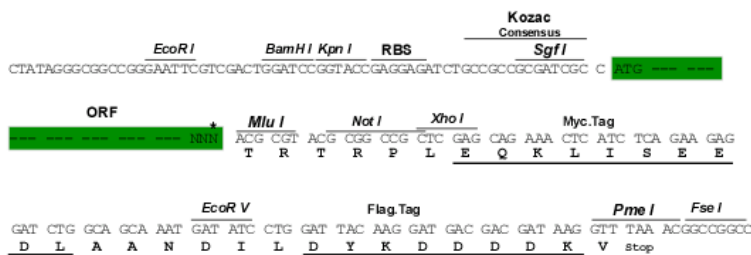
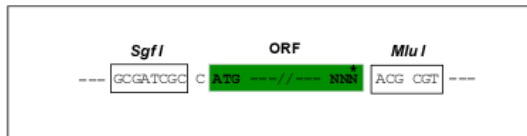
MAAAQPESRDGAAQSAKPASETDPLSRFTCPVCLEVFKEKPVQVPCGHVFCSAQLQECLKPKKPVCGVCRS  
 ALAPGVRAVELERQIESIETSCHGCRKNFILSKIRAHVTSCSKYQNYIMEGVKATTKDASLQPRNIPNRY  
 TFPCPYCPEKNFDQEGLVEHCKLTHSTDTKSVVCPICASMPWGDPSYRSANFMEHIQRRHRFSYDTFVDY  
 DVDEDDMINQVLQRSIIDQ

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\_030743

**ORF Size:** 690 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\\_030743.6](#)

**RefSeq Size:** 3001 bp

**RefSeq ORF:** 690 bp

**Locus ID:** 81018

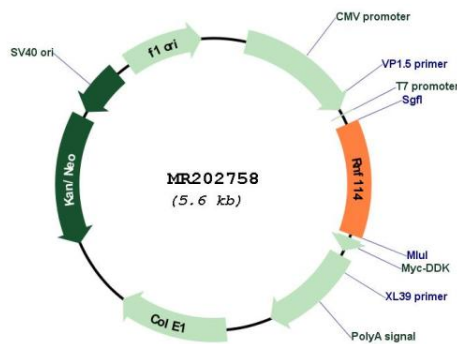
**UniProt ID:** [Q9ET26](#)

**Cytogenetics:** 2 H3

**MW:** 25.7 kDa

**Gene Summary:** E3 ubiquitin-protein ligase promoting the ubiquitination and degradation of the CDK inhibitor CDKN1A and probably also CDKN1B and CDKN1C. These activities stimulate cell cycle's G1-to-S phase transition and suppress cellular senescence. May play a role in spermatogenesis. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202758