

## Product datasheet for **RR211028**

### Rnf5 (NM\_001109025) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf5 (NM\_001109025) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rnf5  
**Synonyms:** MGC109637  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211028 representing NM\_001109025  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCAGCAGAGGAAGAGGACGGGGCCCCGAAGGGCCAAATCGCGAGCGGGCGGGGCGAGCGCGA  
 CCTTCGAATGTAATATATGTTTGGAGACAGCTCGCGAAGCTGTGGTCAGCGTGTGTGGCCACCTCTATTG  
 TTGGCCCTGTCTCCATCAGTGGCTGGAGACACGGCCAGACCGGCAAGAATGCCCGGTGTGTAAGGCCGGA  
 ATAAGCAGGGAGAAGGTCGTCCCTCTTTATGGTCGAGGGAGCCAGAAGCCACAGGATCCCAGATTGAAAA  
 CCCCACCCCGCCCTCAGGGCCAGCGGCCAGCTCCGGAGAGCAGAGGGGGTTCCAGCCATTCCGGTGATGC  
 AGGGGGATTTCACTTCTCCTTTGGTGTGGCGCCTTCCCCTTTGGCTTCTTTACCACCGTGTCAATGCC  
 CACGAGCCTTCCGAAGGGGTGCAGGTGTGGATCTGGGGCAGGGTCACCCAGCCTCCAGCTGGCAAGATT  
 CCTTGTTCCTGTTCTCGCCATCTTTTCTTTTCTGGCTGCTCAGTATT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211028 representing NM\_001109025  
 Red=Cloning site Green=Tags(s)

MAAAEEEDGGPEGNRERGGASATFECNICLETAREAVVSVCGHLYCWPLHQWLETRPDRQECVPCKAG  
 ISREKVVPLYGRGSQKQDPRLKTPRPQGQRPAPESRGGFQPFGDAGGFHFSFGVGAFFPFQFFTTVFNA  
 HEPFRRGAGVDLGGHPASSWQDSLFLFLAIFFFFWLLSI

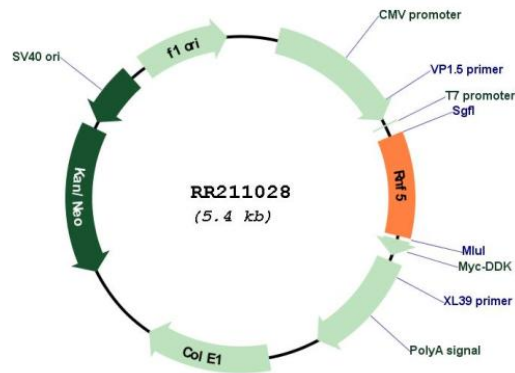
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**

**ACCN:** NM\_001109025

**ORF Size:** 540 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001109025.2</a></u> , <u><a href="#">NP_001102495.1</a></u>
<b>RefSeq Size:</b>	1142 bp
<b>RefSeq ORF:</b>	543 bp
<b>Locus ID:</b>	407784
<b>UniProt ID:</b>	<u><a href="#">Q5M807</a></u>
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	19.8 kDa
<b>Gene Summary:</b>	Has E2-dependent E3 ubiquitin-protein ligase activity. May function together with E2 ubiquitin-conjugating enzymes UBE2D1/UBCH5A and UBE2D2/UBC4. Mediates ubiquitination of PXN/paxillin. May be involved in regulation of cell motility and localization of PXN/paxillin. Mediates the 'Lys-63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD; the ubiquitination appears to involve E2 ubiquitin-conjugating enzyme UBE2N. Mediates the 'Lys-48'-linked polyubiquitination of TMEM173 at 'Lys-150' leading to its proteasomal degradation; the ubiquitination occurs in mitochondria after viral transfection and regulates antiviral responses.[UniProtKB/Swiss-Prot Function]