

Product datasheet for RN211028

Rnf5 (NM_001109025) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf5 (NM_001109025) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rnf5
Synonyms:	MGC109637
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN211028 representing NM_001109025 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGCAGAGGAAGAGGACGGGGCCCCGAAGGGCCAAATCGCGAGCGGGCGGGGCGAGCGCGA
CCTTCGAATGTAATATATGTTTGGAGACAGCTCGGAAGCTGTGGTCAGCGTGTGTGCCACCTCTATTG
TTGGCCCTGTCTCCATCAGTGGCTGGAGACACGGCCAGACCGGCAAGAATGCCCGTGTGTAAAGCCGGA
ATAAGCAGGGAGAAGGTCGTCCCTTTTATGGTCGAGGGAGCCAGAAGCCACAGGATCCCAGATTGAAAA
CCCCACCCGCCCTCAGGGCCAGCGCCAGCTCCGGAGAGCAGAGGGGGTTCCAGCCATTCGGTGATGC
AGGGGGATTTCACTTCTCCTTTGGTGTGGCGCCTTCCCCTTTGGCTTCTTACCACCGTGTCAATGCC
CAGCAGCCTTTCGAAGGGGTGCAGGTGTGGATCTGGGGCAGGGTCACCCAGCCTCCAGCTGGCAAGATT
CCTTGTTCCTGTTCTCGCCATCTTTTTCTTTTCTGGCTGCTCAGTATT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001109025
Insert Size:	543 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<u>NM_001109025.2, NP_001102495.1</u>
RefSeq Size:	1142 bp
RefSeq ORF:	543 bp
Locus ID:	407784
UniProt ID:	<u>Q5M807</u>
Cytogenetics:	20p12
Gene Summary:	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]