

## Product datasheet for RN210773

## Rnf138 (NM\_053588) Rat Untagged Clone

## **Product data:**

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Rnf138 (NM_053588) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rnf138
Synonyms:	Rsd4; Trif
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210773 representing NM_053588 <mark>Red</mark> =Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCGAGGAGCTTTCGGCGGACACGTCCTACACGGAAGATGATTTCTACTGCCCAGTCTGTCAGGAGG TGCTCAAGACGCCGGTGCGGACCGCGGCCTGTCAGCACGTTTTCTGTAGAAAATGTTTCCTGACTGCAGAT GAGAGAGAGTGGAATACATTGTCCCCTATGTCGCGGAAGTGTGACTAGAAGAGAAAGAGCATGTCCGGAA CGGGCCATAGATCTTGAAAATATCATGAGGAGGGGTTTCTGGTAGCTGCAGAAGAGAGAG
<b>Restriction Sites:</b>	Sgfl-Mlul
ACCN:	NM_053588
Insert Size:	630 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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<b>ORIGENE</b> Rnf138 (NM_053588) Rat Untagged Clone – RN210773	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 053588.2, NP 446040.1</u>
RefSeq Size:	2753 bp
RefSeq ORF:	630 bp
Locus ID:	94196
UniProt ID:	<u>Q99PD2</u>
Cytogenetics:	18p12
Gene Summary:	E3 ubiquitin-protein ligase involved in DNA damage response by promoting DNA resection and homologous recombination. Recruited to sites of double-strand breaks following DNA damage and specifically promotes double-strand break repair via homologous recombination. Two different, non-exclusive, mechanisms have been proposed. According to a report, regulates the choice of double-strand break repair by favoring homologous recombination over non-homologous end joining (NHEJ): acts by mediating ubiquitination of

XRCC5/Ku80, leading to remove the Ku complex from DNA breaks, thereby promoting homologous recombination. According to another report, cooperates with UBE2Ds E2 ubiquitin ligases (UBE2D1, UBE2D2, UBE2D3 or UBE2D4) to promote homologous

ubiquitination and degradation of TCF/LEF. Also exhibits auto-ubiquitination activity in combination with UBE2K. May act as a negative regulator in the Wnt/beta-catenin-mediated

recombination by mediating ubiquitination of RBBP8/CtIP. Together with NLK, involved in the

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signaling pathway.[UniProtKB/Swiss-Prot Function]