

Product datasheet for **RG207642**

RNF168 (NM_152617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF168 (NM_152617) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF168
Synonyms:	hRNF168; RIDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207642 representing NM_152617
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTACCCAAGACGCCATCCCCTCGCTGTCCGAGTGCCAGTGCGGGATCTGCATGGAATCCTCG
 TGGAGCCCGTCACCTCCCGTGTAAACCACGCTGTGTAACCGTGCTTCCAGTCGACCGTCGAAAAGGC
 GAGTTTATGCTGTCCCTTCTGTCCGCCGCGGGTATCGTCGTGGACTCGGTACCATACCCGAAGAAATCT
 CTCGTCACAGTGGAACTGTGGACGATAATCAAAAACACTATCCCAGGGAGTGCAAGCTTAGAGCGTCTG
 GCCAAGAATCAGAGGAAGTGGCTGATGACTATCAGCCAGTTCTGTCTGCTCAGTAAACCTGGGAACTGAG
 AAGAGAATATGAAGAGGAAATAAGCAAGGTGGCGGCAGAGCGACGGCCAGCGAGGAAGAAGAAAACAAA
 GCCAGTGAAGAATACATACAGAGTTGTTGGCAGAGGAGGAAGAAGAGGAAAAAGACAGGCAGAAAAAA
 GGCGAAGAGCGATGGAAGAACAACCTGAAAAGTGTGAGGAACTGGCAAGAAAGCTAAGCATTGATATTA
 CAATTTCTGTGAGGGAAGTATCTCGGCTTCTCCCTTGAATTCAGAAAATCTGATCCAGTTACACCCAAG
 TCTGAAAAGAAAAGTAAGAACAACAAAGAAACACTGGAGATATTCAGAAATTTGACACCGAAAATCTC
 AGTTTGGGTCAGCCTCACACTCTGAAGCTGTACAAGAAGTCAGGAAGACTCCGTATCTAAGGACATTGA
 CAGTAGTGATAGGAAAAGCCCAACAGGGCAAGACACAGAAATAGAAGATATGCCGACACTTTCTCCACAG
 ATATCCCTTGGAGTTGGAGAACAAGGTGCAGATTTCTTCAATAGAGTCCCTATGCCATGGTTATGTGCT
 GTGGTGCCGAATGGTACCATGAAGGAAACGTCAAAAACAGACCAAGCAATCATGGGAAAGAGTTATGTGT
 CTTAAGTCACGAGCGACCTAAAACCAGAGTTCCCTACTCGAAAGAACTGCAGTTATGCCTTGTGGCAGA
 ACAGAAAGTGGGTGCCCCCCACATCAGGGGTGACACAGACAAAATGGAACAACACAGGTGAGACAGAAA
 ATGAAGAGTCGTGCCTACTGATCAGTAAGGAGATTTCCAAAAGAAAAACCAAGAATCTTCTTTGAGC
 AGTCAAGGATCCATGCTTTTCTGCAAAAAGAAAGTGTCCCCGAATCTTCCCAGATCAAGAGGAA
 ACAGAAATAAACTTTACCAAAAACCTGATAGATTTGGAGCATCTACTGTTTGGAGACATAAACAAGAAG
 AACAGGACAGGTTATTGGCATTACAACCTCAGAAGGAGGTGGATAAAGAGCAAAATGGTGCCAAACCGGCA
 AAAAGGATCCCCAGATGAGTATCACTTACGCGCTACATCTCCCTCCAGACAAAGTGTAAATGGACAG
 AGGAAGAATCCCAAGATGGGAACCTCAAAGGCAAACTCACACAAGCATCCAACACCAGAGAGAGGCT
 CAAGGGACAAAAATAGGCAAGTGTCTTTAAGATGCAGTTGAAGCAGTCAGTTAATAGAAGAAAGATGCC
 AAATTCTACTAGAGTCACTGTAAGGTATCCAAAAGTGTCACTCCCTACAGCCTAGCATTTCACAGAAA
 AGTGTTTTTCAGATGTTTCAGAGATGCACAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207642 representing NM_152617
 Red=Cloning site Green=Tags(s)

MALPKDAIPSLSECQCGICMEILVEPVTLPCNHTLCKPCFQSTVEKASLCCPFCRRRVSSWTRYHTRRNS
 LVNVELWTIIQKHYPRECKLRASQEQESEEVADDYQPVRLLSKPGELRREYEEIISKVAAERRASEEEENK
 ASEEYIQRLLAEEEEEEKRQAERRRAMEEQLKSDEELARKLSIDINNFCEGSISASPLNSRKSDPVTPK
 SEKKSINKQRNTGDIQKYLTPKSQFGSASHSEAVQEVRKDSVSKIDSSDRKSPTGQDTEIEDMPTLSPQ
 ISLGVGEQGADSSIESPMPWLCACGAEWYHEGNVKTSPNSHKGKELCVLSHERPKTRVPYSKETAVMPCGR
 TESGCAPTSQVTQTNGNNTGETENEESCLLISKEISKRNQESSFEAVKDPFCFSKRKRVSPESPQDQEE
 TEINFTQKLIDLEHLLFERHKQEEQDRLLALQLQKEVDKEQMPVNRQKGPDEYHLRATSSPPDKVLNGQ
 RKNPKDGNFKRQTHTKHPTPERGSRDKNRQVSLKMLKQSVNRRKMPNSTRDHCKVSKSAHSLQPSISQK
 SVFQMFQRCTK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_152617.4
RefSeq Size:	2375 bp
RefSeq ORF:	1716 bp
Locus ID:	165918
UniProt ID:	Q8IYW5
Cytogenetics:	3q29
Gene Summary:	This gene encodes an E3 ubiquitin ligase protein that contains a RING finger, a motif present in a variety of functionally distinct proteins and known to be involved in protein-DNA and protein-protein interactions. The protein is involved in DNA double-strand break (DSB) repair. Mutations in this gene result in Riddle syndrome. [provided by RefSeq, Sep 2011]