

Product datasheet for **MC222442**

Rbbp8 (NM_001081223) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbbp8 (NM_001081223) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbbp8
Synonyms:	9930104E21Rik; CtIP; RBBP-8; RIM; SAE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001081223, the custom clone sequence may differ by one or more nucleotides

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ATGAGCATTTTCAGGAAGCGGCTGTGGAAGCCCTAATTCTGCGGATGCATCCAATGACTTCAAGGAACTCT
GGACAAAACAAAAGAGTATCATGATAAGGAAGTGCAAGGTTTACAAGTCAAAGTAACCAAACGAAAA
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CCCAACACACCAGAGAATTTCTGGGAAGTTGGTTTTCTTCTACTCAGACGTGTCTGAAAGAGGTTATA
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AGGCAAAGAACAGAGGACCTAG
    
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Restriction Sites: SgfI-MluI
ACCN: NM_001081223
Insert Size: 2682 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).
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:	BC050849 , AAH50849
RefSeq Size:	3157 bp
RefSeq ORF:	2682 bp
Locus ID:	225182
UniProt ID:	Q80YR6
Cytogenetics:	18 A1
Gene Summary:	<p>Endonuclease that cooperates with the MRE11-RAD50-NBN (MRN) complex in DNA-end resection, the first step of double-strand break (DSB) repair through the homologous recombination (HR) pathway. HR is restricted to S and G2 phases of the cell cycle and preferentially repairs DSBs resulting from replication fork collapse. Key determinant of DSB repair pathway choice, as it commits cells to HR by preventing classical non-homologous end-joining (NHEJ). Functions downstream of the MRN complex and ATM, promotes ATR activation and its recruitment to DSBs in the S/G2 phase facilitating the generation of ssDNA. Component of the BRCA1-RBBP8 complex that regulates CHEK1 activation and controls cell cycle G2/M checkpoints on DNA damage. During immunoglobulin heavy chain class-switch recombination, promotes microhomology-mediated alternative end joining (A-NHEJ) and plays an essential role in chromosomal translocations.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>