

Product datasheet for **MC216846**

Ranbp3 (NM_027933) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp3 (NM_027933) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ranbp3
Synonyms:	2610024N24Rik; AA408221
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216846 representing NM_027933
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCGTCGCACCGTCTGTCTTTGTGTTTCAAAGGACAAG
 GACAGAAGAGATCTGCTGGCAGCTCCAGTCCCGAAGCCGAGAAGATTCTGACCATGAGGATGGAACTA
 CTGCCCCCTGTCAAGCGTGAGCGGACATCCTCTCTAACTCACTCAGAAGAGAAGAGCAGCGCTCCGG
 CTGAAGCCCCAACACTCATCCACGGTCAGGCACCCAGTGCAGGTCTGCCAGCCAGAAACCCAGGGAAC
 AGCAGCGTGGTGTCTCCGTCCAGCTGTCTGCAGGCCCTCAGCCCAAGGTGCTGTCGACAGCGTTCC
 CAGCAGTGGACCAATGGAGTCAGTATGCCAGCAGACTGCACGGGGCCAGCAACGCTGTATCACCAGAA
 AACCTCACGCAGAGGAGTCCCTCTGAGTCTGCCGAGGAGACACACACTCGAGGAGAAGGTGCCTCAGA
 AAACCCACATGGCACCTCAGAGGAGGGGCACTGTGAAGAGGAGCAGCGGCCCCACAGGCTTTGTGTT
 TGGACAGAACTTGAGAGACAGAGTGAAGTTAATGAATGAGAATGCCAGCGTGGCAGATGTAGACAGTGT
 GCACATCCAGCTCAGAAACACCTCTGCGACCACTACTTCTTCAGTACATCAGTTCAGCGCAGACA
 ACGCGACCCACAGTGTGACAACCTCCACCAAGTTTGTGTTTGGCCAGAACATGAGTGAGCGCGTCTTGAG
 CCCCCAAAGCTGAATGAAGCCAATTCAGACACCAGCAGGGAGACTACACATGCCAGTCAAGTTCTGAG
 TCGTCATCCCAGGAGGCCGCCCAAGAAAGAGTCCCTGGCAGAGTCAAGCGCTGCCTATACAAAGGCTA
 CAGCGTGGACGTGTTTGTGGAGAAGGTGGAGGTCATCACGGGGGAGGAGGCAGAGAGCAATGTGCTGCA
 GATCCAGTGAAGCTGTTTGTGTCGATAAGACCTCACAGTCAATGGTGGAGCGTGGCCGGGACTTCTC
 AGGTCGAATGACATGGCGTCAACCGACGATGGCACATTACAGTCCCGGCTAGTGTGCGGACCCAGGGCA
 CCCTCGGGCTCATCTGAACACGAAGCTGTGGCACAGATGCAGATGGATAAGGCCAGTAAAAGAGAC
 CCGCATCACAGCCACCGACGCTGAGGACCAGGGTGTCAAGGTTTTCTGATCTCGGCCAGCTCCAAGAC
 ACAGGCCAACTGTATGCTGCACTGCACCACCGCATCCTGGCTCTGCGTAGCCGGGCTGAACAGGAACAGG
 AGGCCAAGGGCGCCCCACCTGAGCCAGGAGCCACCCGGGCCACCGAGGAGGAAGACAGTGTAGGATGC
 TGTCTGGCTCCCTCCGGTGTACGGGGCTGGCACAGGTGATGAAGGAGATGGCCAGGCTCCTGGGAGC
 ACATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_027933
- Insert Size:** 1476 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:

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_027933.3](#), [NP_082209.1](#)

RefSeq Size: 2511 bp

RefSeq ORF: 1476 bp

Locus ID: 71810

UniProt ID: [Q9CT10](#)

Cytogenetics: 17 D

Gene Summary: Acts as a cofactor for XPO1/CRM1-mediated nuclear export, perhaps as export complex scaffolding protein. Bound to XPO1/CRM1, stabilizes the XPO1/CRM1-cargo interaction. In the absence of Ran-bound GTP prevents binding of XPO1/CRM1 to the nuclear pore complex. Binds to CHC1/RCC1 and increases the guanine nucleotide exchange activity of CHC1/RCC1. Recruits XPO1/CRM1 to CHC1/RCC1 in a Ran-dependent manner. Negative regulator of TGF-beta signaling through interaction with the R-SMAD proteins, SMAD2 and SMAD3, and mediating their nuclear export (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.

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.