

## Product datasheet for **MR229915**

### **Ranbp3 (NM\_001252467) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ranbp3 (NM_001252467) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ranbp3
Synonyms:	2610024N24Rik; AA408221
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR229915 representing NM\_001252467  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCGTGCACCGTCTGTCTTTGTGTTTCAAAGGACAAAG  
 GACAGAAGAGATCTGCTGGCAGCTCCAGTCCCGAAGCCGAGAAGATTCTGACCATGAGGATGGAACTA  
 CTGCCCCCTGTCAAGCGTGAGCGGACATCCTCTCTAACTCACTCAGTCCAGCAGTGGCACCAATGGA  
 GTCAGTATGCCAGCAGACTGCACGGGGCCAGAACGTCTGTATCACCAGAAAACCTCACGCAGAGGAGTC  
 CCTCTGAGTCTGCCGAGGAGACACACACTCGAGGAGAAGGTGCCTCAGAAAACCCACATGGCACCTC  
 AGAGGAGGGGCACTGTGAAGAGGAGCAGGCGGCCACAGGCCTTTGTGTTTGGACAGAACTTGAGAGAC  
 AGAGTGAAGTTAATGAATGAGAATGCCAGCGTGGCAGATGTAGACAGTGTGCACATCCAGCTCAGAAA  
 CACCCTCTGCGACCAACTACTTCCTTCAGTACATCAGTCCAGCGCAGACAACCGGACCCACAGTGTGA  
 CAACTCCACCAAGTTTGTGTTTGGCCAGAACATGAGTGAAGCGCTTTGAGCCCCCAAAGCTGAATGAA  
 GCCAATTCAGACACCAGCAGGGAGACTACACATGCCAGTCCAGTTCTGAGTCGTCATCCAGGAGGCCG  
 CCCCCAAGAAAGAGTCCCTGGCAGAGTCAAGCCGCTGCCTATACAAGGCTACAGCGTGGAGCTGTTTGT  
 GGAGAAGTGGAGGTATCACGGGGGAGGAGGCAGAGAGCAATGTGCTGCAGATCCAGTGTAAAGCTGTT  
 GTGTTTCGATAAGACCTCACAGTCATGGGTGGAGCGTGGCCGGGGACTTCTCAGGCTCAATGACATGGCGT  
 CAACCGACGATGGCACATTACAGTCCCGGCTAGTATGCGGACCCAGGGCAGCCTGCGGCTCATCTGAA  
 CACGAAGCTGTGGGCACAGATGCAGATGGATAAGGCCAGTGAAAAGAGCATCCGCATCACAGCCACCGAC  
 GCTGAGGACCAGGTGTCAAGTTCCTGATCTCGGCCAGCTCCAAAGACACAGGCCAACTGTATGCTG  
 CACTGCACCACCGCATCCTGGCTCTGCGTAGCCGGGCTGAACAGGAACAGGAGGCCAAGGGCCCCCACC  
 TGAGCCAGGAGCCACCCGGGCCACCGAGGAGGAAGACAGTGTAGAGGATGCTGTTCTGGCTCCCTCCGGT  
 GTCACGGGGGCTGGCACAGGTGATGAAGGAGATGGCCAGGCTCCTGGGAGCACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229915 representing NM\_001252467  
 Red=Cloning site Green=Tags(s)

MADLANEEKPAVAPSVFVFQKDKGQKRSAGSSSPEAGEDSDHEDGNYCPPVKRERTSSLTHSVPSSGTNG  
 VSMPADCTGPATSVSPENLTQRSPSESAEETHLEEKVPKTPHGTSEEGHCEEEQAAPQAFVFGQNLRD  
 RVKLMNENASVADVDSAAHPSETPSATNYFLQYISSADNATHSADNSTKFVFGQNMSEVLSPPKLINE  
 ANSDTSRETTHAQSGSESSQEAAPKKESLAESAAAYTKATAWTCLLEKVEVITGEEAESNVLQIQCKLF  
 VFDKTSQSWVERGRLLRLNDMASTDDGTLQSRVMRTQGSRLILNKLWAQMMDKASEKSIRITATD  
 AEDQGVKVFLLISASSKDTGQLYAALHHRILALRSRAEQEQEAKAPPEPGATRATEEEDSDEDVAVLAPSG  
 VTGAGTGDEGDGQAPGST

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001252467

**ORF Size:** 1314 bp

**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:**

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\\_001252467.1](#), [NP\\_001239396.1](#)

**RefSeq Size:** 2352 bp

**RefSeq ORF:** 1317 bp

**Locus ID:** 71810

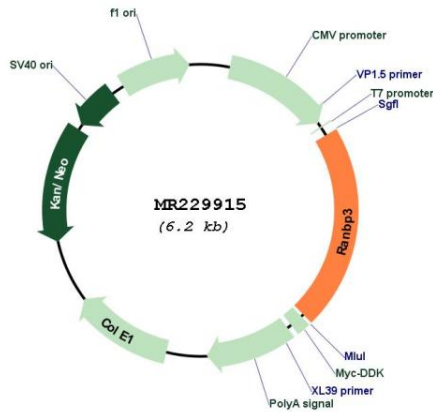
**Cytogenetics:** 17 D

**MW:** 47.3 kDa

**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]

**Product images:**



Circular map for MR229915