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Product datasheet for MC227704

Ranbp3 (NM_001252467) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp3 (NM_001252467) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ranbp3
Synonyms:	2610024N24Rik; AA408221
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227704 representing NM_001252467 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCGTCGCACCGTCTGTCTTTGTGTTTCAAAAGGACAAAG GACAGAAGAGATCTGCTGGCAGCTCCAGTCCCGAAGCCGGAGAAGATTCTGACCATGAGGATGGAAACTA CTGCCCCCCTGTCAAGCGTGAGCGGACATCCTCTCTAACTCACTCAGTTCCCAGCAGTGGCACCAATGGA GTCAGTATGCCAGCAGACTGCACGGGGCCAGCAACGTCTGTATCACCAGAAAACCTCACGCAGAGGAGTC CCTCTGAGTCTGCCGAGGAGACACACACACTCGAGGAGAAGGTGCCTCAGAAAACCCCACATGGCACCTC AGAGGAGGGGCACTGTGAAGAGGAGCAGGCGGCCCCACAGGCCTTTGTGTTTGGACAGAACTTGAGAGAC AGAGTGAAGTTAATGAATGAGAATGCCAGCGTGGCAGATGTAGACAGTGCTGCACATCCCAGCTCAGAAA CACCCTCTGCGACCAACTACTTCCTTCAGTACATCAGTTCCAGCGCAGACAACGCGACCCACAGTGCTGA CAACTCCACCAAGTTTGTGTTTGGCCAGAACATGAGTGAGCGCGTCTTGAGCCCCCCAAAGCTGAATGAA GCCAATTCAGACACCAGCAGGGAGACTACACATGCCCAGTCAGGTTCTGAGTCGTCATCCCAGGAGGCCG CCCCCAAGAAAGAGTCCCTGGCAGAGTCAGCCGCTGCCTATACAAAGGCTACAGCGTGGACGTGTTTGCT GGAGAAGGTGGAGGTCATCACGGGGGAGGAGGCAGAGAGCAATGTGCTGCAGATCCAGTGTAAGCTGTTT GTGTTCGATAAGACCTCACAGTCATGGGTGGAGCGTGGCCGGGGACTTCTCAGGCTCAATGACATGGCGT CAACCGACGATGGCACATTACAGTCCCGGCTAGTGATGCGGACCCAGGGCAGCCTGCGGCTCATCCTGAA CACGAAGCTGTGGGCACAGATGCAGATGGATAAGGCCAGTGAAAAGAGCATCCGCATCACAGCCACCGAC GCTGAGGACCAGGGTGTCAAGGTTTTCCTGATCTCGGCCAGCTCCAAAGACACAGGCCAACTGTATGCTG CACTGCACCACCGCATCCTGGCTCTGCGTAGCCGGGCTGAACAGGAACAGGAGGCCAAGGCGCCCCCACC TGAGCCAGGAGCCACCCGGGCCACCGAGGAGGAAGACAGTGATGAGGATGCTGTTCTGGCTCCCTCCGGT GTCACGGGGGCTGGCACAGGTGATGAAGGAGATGGCCAGGCTCCTGGGAGCACATAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001252467
Insert Size:	1317 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
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 (3) lacks three exons in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) 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.