OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR226679

Ranbp2 (NM_011240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp2 (NM_011240) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ranbp2
Synonyms:	A430087B05Rik; AI256741; NUP358
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR226679 representing NM_011240 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGGCGTAGCAAGGCCGACGTGGAGCGGTACATCGCCTCGGTGCAGGGCTCCGCCCCGTCGCCCCGAG AGAAGTCAATGAAAGGATTCTATTTTGCAAAGCTGTACTATGAAGCTAAAGAATATGATCTTGCTAAAAA ATACATTTCTACGTATATTAATGTGCAAGAGAGAGACCCTAAAGCCCACAGATTTTTGGGTCTTCTTTAT GAAGTCGAAGAAAATATAGACAAAGCTGTAGAATGTTATAAGCGTTCAGTGGAATTAAACCCAACGCAAA AAGATCTTGTGTTGAAGATTGCAGAATTGCTTTGTAAAAATGATGTGACTGATGGAAGAGCAAAATACTG GGTTGAAAGAGCAGCCAAACTTTTCCCAGGAAGTCCTGCCATTTATAAGTTAAAGGAACAACTTTTAGAT TGTAAAGGTGAAGATGGATGGAATAAACTTTTTGACTTGATTCAGTCAGAACTTTATGCAAGACCTGATG ATATTCATGTAAATATCCGACTAGTAGAGCTTTACCGTTCAAATAAAAGATTGAAGGATGCTGTGGCCCA CTGCCATGAGGCAGACAGGAACACAGCTTTACGTTCAAGTTTAGAATGGAATTTATGTGTTGTACAGACT CTTAAGGAATATCTGGAGTCTCTGCAGTGTTTGGATTCTGATAAAAGTACTTGGAGAGCAACCAATAAAG ACTTACTTCTAGCCTATGCTAACCTTATGCTACTTACACTTTCCACCAGAGATGTGCAGGAAGGTAGAGA ACTATTGGAAAGCTTTGATAGTGCTCTTCAGTCTGTGAAGTCTTCTGTGGGTGGAAATGATGAGCTATCA GCTACTTTCCTAGAAACAAAAGGACATTTCTACATGCATGTTGGTTCTCTGCTTTTGAAGATGGGTCAGC AGAGTGACATCCAGTGGCGAGCTCTTTCTGAGCTGGCTGCATTGTGCTATCTTGTAGCATTTCAGGTTCC CAGACCAAAGGTTAAATTAATAAAAGGAGAAGCTGGACAAAATCTCCTGGAAACGATGGCCCACGATCGC CTTAGCCAGTCAGGGCACATGTTGTTAAACTTAAGTCGTGGCAAGCAAGACTTTCTAAAGGAAGTTGTGG AATCTTTTGCTAACAAAAGCGGCCAGTCTGCTCTCTGTGATGCTCTGTTTTCCAGTCAGTCATCCAAGGA GAGATCCTTTCTTGGGAATGATGATATTGGAAACCTTGATGGACAAGTGCCAGACCCTGATGACTTGGCT AGATATGATACTGGTGCCGTTCGAGCACATAATGGTAGTCTTCAGCACCTTACCTGGCTTGGCTTACAAT GGAATTCACTGTCTACTTTACCAGCAATTCGAAAATGGTTAAAACAGCTCTTCCACCATTTGCCTCAGGA GACGTCAAGGCTTGAAACAAATGCACCTGAATCAATCTGTATTTTAGATCTTGAAGTATTCTTACTTGGA GTTATATATACCAGTCACTTACAATTAAAGGAGAAGTGTAATTCTCACCACACTTCCTATCAACCATTGT

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Protein Sequence:

>MR226679 representing NM_011240
Red=Cloning site Green=Tags(s)

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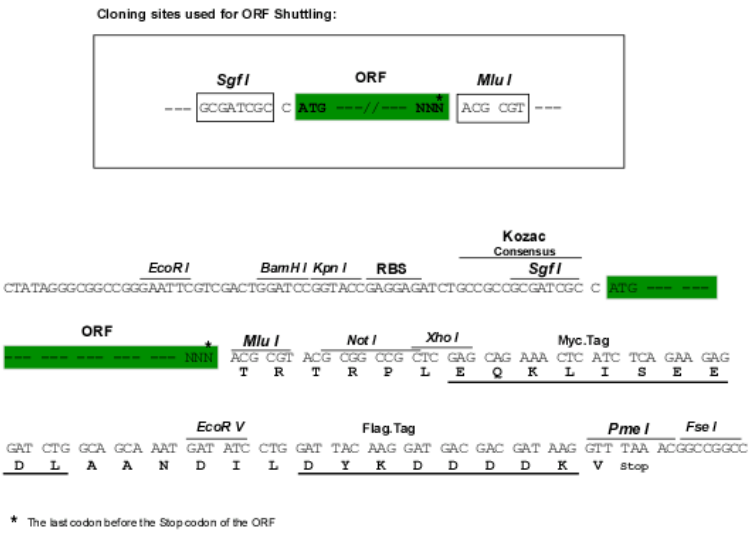
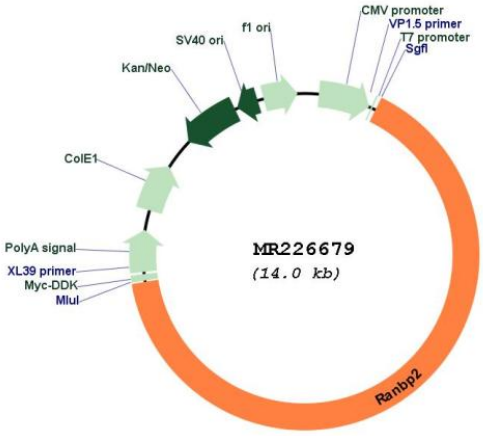
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_011240
ORF Size:	9159 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_011240.3, NP_035370.2
RefSeq Size:	9477 bp
RefSeq ORF:	9162 bp
Locus ID:	19386
UniProt ID:	Q9ERU9
Cytogenetics:	10 29.34 cM
MW:	341.1 kDa
Gene Summary:	E3 SUMO-protein ligase which facilitates SUMO1 and SUMO2 conjugation by UBE2I. Involved in transport factor (Ran-GTP, karyopherin)-mediated protein import via the F-G repeat-containing domain which acts as a docking site for substrates. Binds single-stranded RNA (in vitro). May bind DNA. Component of the nuclear export pathway. Specific docking site for the nuclear export factor exportin-1 (By similarity). Sumoylates PML at 'Lys-490' which is essential for the proper assembly of PML-NB. Recruits BICD2 to the nuclear envelope and cytoplasmic stacks of nuclear pore complex known as annulate lamellae during G2 phase of cell cycle. Probable inactive PPIase with no peptidyl-prolyl cis-trans isomerase activity.[UniProtKB/Swiss-Prot Function]