

Product datasheet for SC112628

RanBP16 (XPO7) (NM_015024) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RanBP16 (XPO7) (NM_015024) Human Untagged Clone
Tag:	Tag Free
Symbol:	RanBP16
Synonyms:	EXP7; RANBP16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112628 sequence for NM_015024 edited (data generated by NextGen Sequencing)

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ATGGCGGATCATGTGCAGAGCCTGGCCCAACTAGAGAATCTGTGCAAACAGCTGTATGAA
ACCACAGACACAACCACTCGACTCCAGGCAGAGAAAGCCTTGTTGAATTTACCAACAGC
CCTGATTGCCTGAGCAAGTGCCAGCTACTCCTCGAAAGAGGAAGTTCTCTTACTCCAG
TACTGGCAGCTACATGCCTTACCAAGCTTGATCACGCACAAACAACCCCTACCATTG
GAACAGCGAATAGATATTCGGAATATGTGCTCAACTACCTTGCCACTCGGCCGAAGTTG
GCTACTTTTCGTGACACAAGCACTTATTCAGTTATATGCCAGAATCACAAAAGTGGCTGG
TTTGACTGTCAGAAGGATGACTATGTCTTCAGAAATGCAATCACAGACGTACAAGGTTT
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GAAATTAATCAAGCAGACACCACCCATCCTTTAACCAAGCACAGAAAAATAGCCTCTTCT
TTTCGCGATTATCATTATTTGATATCTTACACTTTCTGCAATTTACTAAAACAGGCT
TCAGGAAAGAATCTAAACTTGAATGATGAAAGTCAGCATGGCTTGCTCATGCAACTGCTC
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GACGACCTGTGTACAGTGCAGATCCCACCAGCTGGAGATCAGCCTTCTTAGATTCTTCA
ACCTTGCAGCTGTTTTTGGACCTGTATCATTCCATCCCTCCTTCAATTTTACCTCTGGTA
TTATCTGCTTGGTACAGATCGCTTCAGTCAGAAGATCCCTGTTAAACAATGCAGAGAGG
GCCAAGTTTCTCTCATCTTGTGATGGTGTAAACGAATACTGGAAAACCCACAGAGT
TTATCAGACCCAAACAATTACCATGAGTTTTGCAGACTACTGGCCCGATTGAAGAGTAAC
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CAGCAGTTGGACCAGCTGTCCACCATTGGGCGTTGTGAATATGAGAAGACGTGTGCACTC
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GCAAGCCCAATGGACATTGCAGTGCAGGAGGGAAGGCTGCATGGCTGGTTTACATTATT

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GGAGCAGTGATCGGTGGCCGGGTTTCTTTTCCAGCACTGATGAGCAAGACGCCATGGAT
 GGTGAGCTTGTCTGTCCGGTGTCCAGCTGATGAACCTAACAGATTCTCGTTTGGCCAG
 GCGGGTAAAGAGAAGCTAGAGTTGGCCATGCTGAGCTTTTTTGAACAGTTTCGTAAGATC
 TACATTGGGGACCAAGTGCAGAAATCCTCTAAGCTGTACCGCCGACTCTCAGAAGTTCTG
 GGCTTGAATGATGAGACCATGGTCTAAGCGTCTTCATAGGAAAAATCATCACCACCTTG
 AAGTACTGGGGCCGTTGTGAACCAATCACCTCCAAGACACTACAGCTTCTCAATGACCTG
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 CATATGAACCTTATTGCAAGCCTGGAACCTCACGTCATCATGTATTTCTCTTCCATT
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 CACATTGTGACATACCTTTCAAGCAGCTGTACGTAGCACCAAGAAGAGGACCACCC
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 CAGATGCTGTCCACGGTCTGAACATCATCATCTTTGAAGACTGTAGGAACCAAGTGGTCT
 ATGTCCCAGCACTACTTGGCTTGATATTGCTTAATGAAAAGTATTTTTCTGACCTAAGA
 AACAGTATTGTGAACAGCCAGCCACCGGAGAAGCAGCAGGCCATGCACCTGTGTTTTGAG
 AACCTGATGGAAGGCATCGAGCGAAATCTTCTTACGAAAAACAGAGACAGGTTACCCAG
 AACCTGTCAGCATTCCGTCGAGAAGTCAACGACTCAATGAAGAATCCACTTATGGCGTG
 AATAGCAATGACATGATGAGCTGA

Clone variation with respect to NM_015024.4
 1869 g=>n;1870 t=>n;1871 a=>n;1872 c=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015024 unedited
 GTTCAAATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACCAGAAGCATGAATG
 GAGCAAAATGGCGGATCATGTGCAGAGCCTGGCCAACTAGAGAATCTGTGCAAACAGCT
 GTATGAAACCACAGACACAACCACTCGACTCCAGGCAGAGAAAGCCTTGTTGAATTTAC
 CAACAGCCCTGATTGCCTGAGCAAGTGCCAGCTACTCCTCGAAAGAGGAAGTTCCCTTTA
 CTCCCAGTTACTGGCAGCTACATGCCTTACCAAGCTTGTATCACGCACAAACAACCCCT
 ACCATTGGAACAGCGAATAGATATTCGGAATATGTGCTCAACTACCTTGCCACTCGGCC
 GAAGTTGGCTACTTTTCGTGACACAAGCACTTATTCAGTTATATGCCAGAATCACAAAAC
 GGGCTGGTTTACTGTGCAAGGATGACTATGTCTTTCAGAAATGCAATCACAGACGTCAC
 AAGTTTTTACAGGATAGTGTGAATACTGCATCATTGGTGTACAATTTTATCTCAGCT
 AACCAATGAAATTAATCAAGCAGACACCACCCATCCTTTAACCAAGCACAGAAAAATAGC
 CTCTTTTTCGCGATTATCATTATTTGATATCTTACACTTTCTGCAATTTACTAAA
 ACAGGCTTCAGGAAAGAATCTAAACTTGAATGATGAAAGTCAGCATGGCTTGCTCATGCA
 ACTGCTCAAGCTCACTATAACTGCCTCAACTTTGACTTCATCGGCACTTNCAGTATGA
 GTCCTCAGACGACCTGTGTACAGTGCAGATTCCACCAGCTGGAGATCAGCCTTCTTAGAT
 TCTCAACCTGCAGCTGTTTTGACCTGTATATCCATNCCNCTTTTATTTACCTCTGGGAT
 ATCCTGCTGGNACAGACGCTTCATCAAAGATCCCTGTTACATGCAGAAGGGCAGNT

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015024 unedited TTCGCTGTGNACCGCGGCCGCTATCTAAGATCGAGTTTTTTTTTTTTTTTTTTTTCAGTAG AAACCATTGAAGTTTATTGGCGGTACACAATGCTTACACTGTATGCAGCAAACACCCTTAC AAGTCTATCCGCAACCTGATCACGCAAGAAAGGATTCATCACACAGTCGCCAGAGGAGAA GGAAAAAATAACAGGCTTGTCTGGGGGTAGAGGAAAGAAATAAAAAATAAACCTAA TTGATGAGTGTCCCGTGGCAAGAGCTGAACTAGAGATGTGTACAACAGCAGCAACAAT TGTGAAAAAGTACAAGGCAAAATAGCTGTCTCCATTAATTTTCTCTGTAGTTATTATT TTTTTAAATATTCAAAACATTTATTATGGTTTTTCATTTTATAAAAAATGTATTTTTTTAA GGGATGGGAGAATGTTAAATACTTCATGCTAGGTAGACCTGTTATTAAGAACCCTTCCA CTGTAGTAACTTCTCCAGTTCATACATTCATGAGTGCAGGGTACATATAAAATATCCA CACGCATACATCCACACACTGCCTCGAGGGCTGGGGAAGACTAAAATTTATTGGCCAC ACACAGCAGGGCCTCTGGTGGACTCACCCACATTGCTCCCAGGAGAGCAGTGGGCTCACT TCCTTCTCTGTGCTCTGCCTCACACAGACCAAGACCCTANACACGTCGTTAAATCC CACTTTTTAAAGCAAGAAGCATCTGTCTGGAGATGAGGGTAAGCCAAGTTAGGAAGAAGG TGNAGATNAGGACCAAAACACTTTTTAGCTGGAAGTTANTTTATCACTGGCAGGGGGC TAGGGGACCCANGNCAGAATCTACACCGTCCAGGGGGAGGGACNGTGTTCCTGGCATGG CTTTAAAATTCCTAATAACAAGGTTATACANGTACAGGAATGATCATT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_015024
Insert Size:	4000 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:	<u>NM_015024.2</u> , <u>NP_055839.2</u>
RefSeq Size:	3765 bp
RefSeq ORF:	3264 bp
Locus ID:	23039
UniProt ID:	<u>Q9UIA9</u>
Cytogenetics:	8p21.3
Domains:	IBN_NT
Protein Families:	Druggable Genome

Gene Summary:

The transport of protein and large RNAs through the nuclear pore complexes (NPC) is an energy-dependent and regulated process. The import of proteins with a nuclear localization signal (NLS) is accomplished by recognition of one or more clusters of basic amino acids by the importin-alpha/beta complex; see MIM 600685 and MIM 602738. The small GTPase RAN (MIM 601179) plays a key role in NLS-dependent protein import. RAN-binding protein-16 is a member of the importin-beta superfamily of nuclear transport receptors.[supplied by OMIM, Jul 2002]