

## Product datasheet for **RG205979**

### RanBP16 (XPO7) (NM\_015024) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RanBP16 (XPO7) (NM_015024) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RanBP16
Synonyms:	EXP7; RANBP16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205979 representing NM_015024 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATCATGTGCAGAGCCTGGCCAACTAGAGAATCTGTGCAAACAGCTGTATGAAACCACAGACA  
CAACCACTCGACTCCAGGCAGAGAAAGCCTTGTTGAATTTACCAACAGCCCTGATTGCCTGAGCAAGTG  
CCAGCTACTCCTCGAAAGAGGAAGTTCCTCTTACTCCCAGTTACTGGCAGCTACATGCCTTACCAAGCTT  
GTATCACGCACAAACAACCCCTACCATTGGAACAGCGAATAGATATTCGGAATATGTGCTCAACTACC  
TTGCCACTCGGCCGAAGTTGGCTACTTTCTGTGACACAAGCACTTATTCAGTTATATGCCAGAATCACAAA  
ACTGGGCTGGTTTACTGTCAGAAAGGATGACTATGTCTTCAGAAATGCAATCACAGACGTCACAAGGTTT  
TTACAGGATAGTGTGAATACTGCATCATTGGTGTCACAATTTTATCTCAGCTAACCAATGAAATTAATC  
AAGCAGACACCACCCATCCTTTAACCAAGCACAGAAAAATAGCCTCTTCTTTTCGCGATTTCATTATT  
TGATATCTTCACACTTTCCTGCAATTTACTAAAACAGGCTTCAGGAAAGAATCTAAACTTGAATGATGAA  
AGTCAGCATGGCTTGCTCATGCAACTGCTCAAGCTCACTATAACTGCCTCAACTTTGACTTCATCGGCA  
CTTCCACTGATGAGTCTCAGACGACCTGTGTACAGTGCAGATTCACACCAGCTGGAGATCAGCCTTCTT  
AGATTCTTCAACCTTGCAGCTGTTTTTTGACCTGTATCATTCCATCCCTCCTTCAATTTTACCTCTGGTA  
TTATCCTGCTTGGTACAGATCGCTTCAGTCAGAAGATCCCTGTTTAAACAATGCAGAGAGGGCCAAGTTTC  
TCTCTCATCTTGTGATGGTGTAAACGAATACTGGAAAACCCACAGAGTTTATCAGACCCAAACAATTA  
CCATGAGTTTTGCAGACTACTGGCCGATTGAAGAGTAACTATCAACTGGGAGAATTGGTAAAGGTGGAA  
AACTACCTGAGGTCATCCGATTGATAGCCAATTCACAGTGACCAGCCTACAGCACTGGGAATTTGCTC  
CAAATAGTGTGCACTATCTTCTGAGCCTGTGGCAGCGGCTGGCAGCCTCTGTGCCGTATGTCAAAGCCAC  
AGACCCCAATGCTGGAAACTTACTCTGAGGTCACCAAAGCCTACATCACATCCCGTTGGAATCT  
GTGCACATCACTAGAGATGGCCTGGAAGATCCCTGGAGGATACGGGGCTGGTCCAGCAGCAGTTGG  
ACCAGCTGTCCACCATTTGGCGTTGTGAATATGAGAAGACGTGTGCACTCCTCGTGCAGTTGTTGACCA  
GTCGGCCAGTCGTACCAGGAGCTGCTACAGAGGCCAGCGCAAGCCCAATGGACATTGCAGTGCAGGAG



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GGAAGGCTGACATGGCTGGTTTACATTATTGGAGCAGTGATCGGTGGCCGGGTTTCTTTTCCAGCACTG  
 ATGAGCAAAGCGCCATGGATGGTGGAGCTTGTCTGTCCGGTGTCCAGCTGATGAACCTAACAGATTCTCG  
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 GTGAAGCTTAGTGCGGTACAGTTTCATGTAACAATCACACGAGCGAGCACTTTTTCATTTTTGGGTATTA  
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 GGTGGATTTAGGAGAGGATGAAGATCAGTATGAGCAGTTCATGCTGCCACTCACAGCAGCATTGAGGCT  
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 GTACTCAAGTTGATGGCTGAATTGGTTCATAATAGGTCCCAGCGACTCCAGTTTGTGTCTCTTCCCCCA  
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 GCTGCTGCTCCTGCTGGACCACATTGTGACATACCTCTTCAAGCAGCTGTACAGTACCAAGAAGAG  
 GACCACACCCCTGAACCAGGAGAGCGACCGCTTTCGCACATCATGCAGCAGCATCCAGAGATGATCCAG  
 CAGATGCTGTCCCGGTGCTGAACATCATCATCTTTGAAGACTGTAGGAACCAGTGGTCTATGTCCCGAC  
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 GCCACCGGAGAAGCAGCAGGCCATGCACCTGTGTTTTGAGAACCCTGATGGAAGGCATCGAGCGAAATCTT  
 CTACGAAAAACAGAGACAGGTTACCCAGAACCCTGTCAGCATTCCGTCGAGAAGTCAACGACTCAATGA  
 AGAATCCACTTATGGCGTGAATAGCAATGACATGATGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205979 representing NM\_015024

Red=Cloning site Green=Tags(s)

MADHVQSLAQLENLCKQLYETDTRRLQAEKALVEFTNSPDCLSKCQLLLERGSSSYSQLLAATCLTKL  
 VSRTNNPLPLEQRIDIRNYVLNYLATRPKLATFVTQAL IQLYARITKLGWFDQKDDYVFRNAITDVTRF  
 LQDSVEYCIIGVTILSQLTNEINQADTTHPLTKHRKIASFRDSSLFDIFTLSCNLLKQASGKNLNLNDE  
 SQHGLLMQLLKLTHNCLNFDFIGTSTDESSDDLCTVQIPTSWRS AFLDSSTLQLFFDLYHSIPPSF SPLV  
 LSCLVQIASVRRSLFNAERAKFLSHLVDGVKRILENPQSLSDPNNYHEFCRLLARLKSNYQLGELVKVE  
 NYPEVIRLIANFTVTSLQHWEFAPNSVHYLLSLWQRLAASVPYVKATDPHMLETYTPEVTKAYITSRLES  
 VHIILRDGLEDPLEDTGLVQQQLDQLSTIGRCEYEKTCALLVQLFDQSAQSYQELLQSASASPMEDIAVQE  
 GRLTWLVYIIGAVIGGRVFASTDEQDAMDGELVCRVLQMLNLTDSRLAAGNEKLELAML SFFEQFRKI  
 YIGDQVQKSSKLYRRLSEVLGLNDETMVLSVFIGKIITNLKYWGRCEPITSKTLQLLNDLSIGYSSVRKL  
 VKLSAVQFMLNNHTSEHFSFLGINNQSNTDMRCRTTFYALGRLLMVDLGEDEDQYEQFMLPLTAAFEA  
 VAQMFSTNSFNEQAKRTL VGLVRDLRGIAFAFNAKTSFMMLFEWIYPSYMPILQRATIELWYHDPACTTP  
 VLKLM AELVHNRSQRLQFDVSSPNGILLFRET SKMITMYGNRILTLGEVPKQVYALKLKGISIYF SMLK  
 AALSGSYVNFVGFRLYGDALDNALQTFIKLLLSIPHSDLLDYPKLSQSYSLLEVLTDHMFNFIASLEP  
 HVIMYILSSI SEGLTALDTMVCTGCCSLDHIVTYL FKQLSRSTKRRTPLNQESDRFLHIMQQHP EMIQ  
 QMLSTVLNIIIFEDCRNQWMSRPLLGLILLNEKYFSDLRNSIVNSQPPEKQQAMHLCFENLMEGIERNL  
 LTKNRDRFTQNL SAFRREVND SMKNSTYGVNSNDMMMS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_015024

**ORF Size:** 3261 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\\_015024.3](#)

**RefSeq Size:** 3765 bp

**RefSeq ORF:** 3264 bp

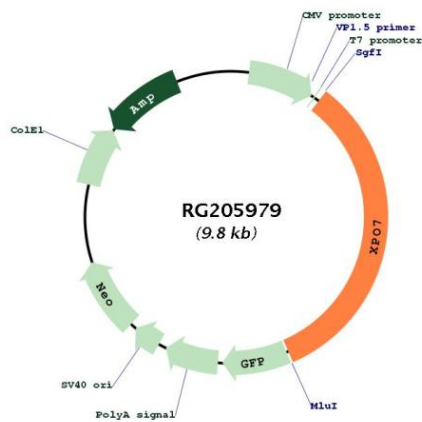
**Locus ID:** 23039

**UniProt ID:** [Q9UIA9](#)

**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]

**Product images:**



Circular map for RG205979