

## Product datasheet for **SC305061**

### **RANBP17 (NM\_022897) Human Untagged Clone**

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | RANBP17 (NM_022897) Human Untagged Clone                                                |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | RANBP17                                                                                 |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC305061 representing NM_022897.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**  
ATGGCGCTGCACTTCCAGAGTTTGGCTGAATTGGAAGTGTATGTACTCATCTCTACATAGGGACTGAT  
CTTACACAAAGAATAGAGGCTGAGAAAGCACTCTTGGAACTTATTGACAGTCCAGAATGTCTCAGCAAG  
TGTCAACTTTTATTAGAACAAGGAACAACATCCTATGCTCAGCTCCTTGCAGCAACATGTCTTCAAAA  
CTTGTCAGCCGAGTCAGTCCTTTACCTGTTGAGCAGAGGATGGACATCAGAACTACATTCTGAATTAC  
GTGGCATCACAGCCCAAGCTGGCTCCCTTTGTCATCCAAGCTCTTATTCAAGTCATTGCTAAAATCACT  
AAGTTGGGGTGGTTTGGAGTTTCAAGAAAGACCAATTTGTCTTCAGAGAAATTATTGCTGATGTGAAGAAG  
TTTCTCCAGGGTACTGTGAACACTGCATAATAGGAGTAATAATCCTTTCTGAATTGACTCAGGAATG  
AACCTGGTTGATTATTCTAGACCTTCAGCAAAACACAGGAAAATAGCTACCTCATTTTCGTGATACTTCT  
CTCAAAGACGTTTATGCTAGCATGCTCTCTTTTAAAGAGGTGTTTGCCAAACCTTTAAATCTTCAG  
GATCAATGTCAGCAAAATCTGGTAATGCAGGTCTTGAACTGGTCCTTAAGTGCCTTAAGTTCGACTTC  
ATTGGCAGTTCAGCAGATGAATCTGCAGATGATCTTGCACGGTGCAGATTCCAACAACCTGGAGAACA  
ATTTCTCGGAACAGAAACATTGGATCTTTCTTCAATTTGTATCATTCACTTCCACCACTACTATCT  
CAGTTAGCACTTTTATGTTAGTTAGTTGCTTCGACAAGAAGTCTTATTTAACAGTCTGAACGT  
GCCAAGTACCTTGGTAATTTAATTAAGGAGTAAAAAGGATACTTGAAAACCTCAGGGTTTGTCTGAT  
CCAGGTAAATTATCATGAATTTTGTGATTTTGGCTCGTTTAAAGACAAATTATCAGCTGGGAGAATTA  
GTTATGGTGAAGGAATATCCTGAAGTTATTAGATTGATTGCTAATTTTACCATTACTAGCCTACAGCAC  
TGGGAATTTGCTCCTAACAGTGTTCATTATTTATTAACCTCTGTGGCAAAGGATGGTAGCATCTGTTCTT  
TTTGTGAATCACTGAACCCACCTATTAGACACTTATGCACCAGAAATCACGAAGGCCTTTATCACT  
TCTCGTTGGACTCTGTTGCCATAGTTGTGAGAGATCACTTAGATGATCCACTGGATGATACTGCCACT  
GTGTTTCAGCAGTTGGAGCAGTTGTGCACGGTCAGCAGATGTGAATATGAAAAGACATGTGCTCTTCTT  
GTGCAGTTATTCGACCAAAATGCACAGAATTACCAAAAACCTCTGCATCCATATTCTGGTGAACGTG  
GACATCAACATTAGGAAGGACGCTTGCATGGCTGGTATACTTAGTTGGGACAGTTGTAGGAGGAAGA  
TTAATATACCAAGTACAGATGAGCATGATGCTATGGATGGAGAATTATCCTGTGAGTTTTTCAGCTT  
ATATCTTTAATGGATACCGGATTGCCTCGATGTTGTAATGAGAAAATAGAGCTTGCAATTCTGTGGTTT



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TTGGATCAGTTTCGTA AAAACATATGTTGGTGATCAACTTCAAAGAACCTCAAAGGTATATGCTCGTATG
TCAGAAGTCTTAGGAATAACAGATGACAACCACGTTCTAGAGACGTTTCATGACAAAAATTGTTACAAAC
CTTAAATACTGGGGAAGATATGAGCCTGTAATTTCAAGGACTCTTCAGTTCCTAAATGACCTTTCTGTT
GGTTATATCCTTTTAAAAAACTTGTGAAGATAGATGCTGTGAAATTCATGCTAAAAAACACACGAGT
GAACACTTCCCTTTTCTTGGCATCAGTGACAATCATAGTCTCAGCGACTTCAGGTGTCGAACAACCTTC
TACACAGCGCTCACTCGCCTTCTGATGGTAGATCTGGGTGAAGATGAGGATGAATTTGAGAATTTTCATG
CTGCCTCTTACAGTTGCTTTTGAACAGTATTACAAATATTCAACAACAACCTTTAAACAAGAAGATGTA
AAGCGTATGTTGATCGGGCTGGCAAGAGATCTTCGAGGGATTGCCTTTGCACTGAACACAAAGACCAGC
TACACCATGCTGTTTGACTGGATGTACCAACGTACCTTCCCCTTCTTCAGAATGCTGTTGAACGGTGG
TATGGAGAGCCAACATGTACAACCTCCATCTTGAACTTATGGCAGAAGTATGCAAAACAGATCCCAG
CGTTTGAAATTTGATGTATCATCTCCTAATGGAATTTCTTCTTTCAGAGAAGCTAGTAAATGGTTTGC
ACTTATGGTAATCAGATCCTGTCCTTGGGAGCCTCTCAAAGATCAGATTTATCCAATGAACTCAAG
GGCATCTCCATCTGCTATTCAGCTCTCAAGTCTGCCTTGTGTGGAATTTATGTCAGCTTTGGCGTCTTC
AAGTTGTATGGGACAACCATTTTGACAATGTACTCCAGGCTTTTGTCAAATGCTGCTGTCAGTGTCC
CACAGTGACTTGCTACAATACCGGAACTGAGCCAGTCTTATTATCCACTCCTGGAATGTCTCACTCAG
GACCATATGAGCTTCATCATCAACTTAGAGCCTCCTGTACTCATGTATGTTCTCATATCTCTCAGAG
GGACTCACTACTCTTGATACAGTTGTCTCCTCCAGCTGCTGTACCAAGTTAGACTACATCGTCACCTAC
CTCTTCAAGCACATAGCAAAAGAGGGCAAGAAGCACTTCGATGCAGAGAGGCTACCCAGGCTGGTCAG
AGACTATTACATTTTATGCAGCAAAACCCAGATGTCTGCAGCAGATGATGTCTGCTCATGAACACC
ATTGCTTTGAAGACTGTCGGAACCAAGTGGTCAGTATCCAGGCCCTCTCCTGGGGCTCATCTGCTCAAT
GAGAAGTATTTAGTGAAGTGAAGCAAGTTTGATAAACAGCCAGCCCTCCCAAGCAGGAGGTCTT
GCCAGTGCTTCAGAAACCTAATGGAAGGAGTGGAGCAGAACCTGTCCGTCAGAACAGAGACAGGTTT
ACCCAAAATCTGTCTGTATTGGAAGAGATGTGGCAGAGGCGTTGCCAGTGATGGCAACACTGAACCA
TGCACTCTCGACATGATGAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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| <b>Restriction Sites:</b>     | Sgfl-MluI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ACCN:</b>                  | NM_022897                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 3267 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA                                                                                                                                                                                                                                                       |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |

RefSeq: [NM\\_022897.2](#)

RefSeq Size: 4576 bp

RefSeq ORF: 3267 bp

Locus ID: 64901

UniProt ID: [Q9H2T7](#)

Cytogenetics: 5q35.1

MW: 124.4 kDa

**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-17 is a member of the importin-beta superfamily of nuclear transport receptors.[supplied by OMIM, Jul 2002]