

## Product datasheet for **SC304848**

### **RANBP10 (NM\_020850) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RANBP10 (NM_020850) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANBP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC304848 representing NM\_020850.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCGGCAGCGACGGCAGACCCGGGAGCTGGGAACCCGCAGCCTGGGGACTCCTCCGGCGGGGCGCT
GGGGCGGGCTGCCCTCCCTGGGGAGCAGGAGCTGAGCCGGCGCTTGCAGCGCCTGTATCCCGCGGTC
AACCGCAAGAGACTCCGCTGCCGCGCTCTGGAGCCCAAGGACAAATACAACCTACATTGGTCTCTCC
CAGGGCAACCTCCGCGTCCACTACAAAGGTCATGGCAAAAATCACAAAGATGCGGCCCTAGTGCCTGCC
ACCCACCCATACCTGCTGCCTGTGGCATTATTACTTTGAAGTGAAGATTGTCAGCAAAGGAAGAGAT
GGTTACATGGGAATAGGACTCTCGGCTCAAGGCGTCAACATGAACAGACTTCTGGTTGGGACAAACAT
TCCTATGGTTACCATGGTATGATGGGCATTCTGTTCTGCTCCTCGGGGACTGGCCAGCCCTATGGTCCC
ACATTCACCACAGGAGACGTGATCGGCTGCTGTGTCAACCTCATCAATGGCACCTGCTTCTACCCAAG
AATGGCCACAGCCTTGGTATAGCCTTACAGACCTCCCGCCAACCTCTACCCACCGTAGGCTGCAG
ACACCTGGGGAGATTGTGGACGCCAACTTTGGGCAGCAGCCCTTCTGTTTGACATTGAGGACTACATG
CGGGAGTGGCGTCCAAAGTCCAGGGCAGGTCCTACTGCTTCCCATCAGTGCCCGGCTTGGCGAGTGG
CAGGCAGTGTGCAGAACATGGTTTCATCTTACCTCGTGCATCATGGGTATTGTGCCACAGCCACGGCT
TTTGCTCGAATGACTGAAACCCCGATTCCAGGAAGAACAGGCGTCCATAAAGAAGCAGACAAAAGATCCAG
AAGCTGGTGTGGAGGGCCGTGTGGGCGAGGCCATCGAGACCACCCAGCGCTTCTACCCAGGGCTGCTG
GAGCACAACCCCAACCTCCTCTTATGCTCAAGTGCCGGCAGTTTGTGGAGATGGTGAATGGGACGGAC
AGTGAGGTCCGAAGTTTGGCTCCCGAAGCCCAAGTCCAGGACAGCTACCCCTGGCTCCCCAGCCTC
AGTCCCCGACATGGCCCCAGTAGTTCCACATGCACAACACAGGAGCAGACAGTCCAGCTGTAGCAAT
GGCGTCGGCTCCACCAAGAGCAAACAGAACACAGTAATAACCTGCACCCAGCTCCTCATCCTCGTCC
TCCTCCTCCTCCTCGTCCCTTCCCATCCTCCGTCAATTAAGTCCGAGTCCAACCTCAACAGACTCCACC
AAGTCCCAGCACACAGCAGTACCAGTAACCCAGGAGACCAGCAGCAGTGAAGATGGAGATGGAGGCAGAG
CACTACCCCAACGGTGTGCTAGGAAGCATGTCCACACGCATTGTTAATGGTGCCTACAAGCATGAGGAC
CTGCAGACGGATGAGTCCAGCATGGATGACAGGCATCCTCGGCGGACGCTTGGCGGGGCAACCAGGCT
GCCACAGAAAGGATCATTCTGTTTGGCCGCGAGTTGCAGGCATTGAGTGAAGCAGTTGGGCCGGGAGTAC
GGCAAGAATTTGGCCACACAGAGATGCTGCAGGATGCCTTCAGCCTGCTGGCATACTCAGACCCCTGG
AGCTGCCAGTTGGCCAGCAGCTTGACCCCATCCAGAGGGAACCTGTGTGTGCTGCCCTCAACAGCGCC
ATTTTAGAGTCCCAGAACCTGCCAAAGCAGCCCCCTCTGATGCTGCCCTGGGCCAGGCATCTGAGTGT
CTCCGGCTCATGGCCGAGCAGGCTGGGTTCTGCTCCTTGGCAGAGTTGATGACTACTGCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_020850  
**Insert Size:** 1863 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.

**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\\_020850.2](#)

**RefSeq Size:** 5350 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 57610

**UniProt ID:** [Q6VN20](#)

**Cytogenetics:** 16q22.1

**Protein Families:** Druggable Genome

**MW:** 67.3 kDa

**Gene Summary:**

RAN is a small GTPase involved in the assembly of microtubules to form mitotic spindles. The protein encoded by this gene is a cytoplasmic guanine nucleotide exchange factor (GEF) that binds beta-tubulin and has GEF activity toward RAN. The encoded protein plays a role in the formation of noncentrosomal microtubules. In addition, this protein may be involved in the regulation of D(1) receptor signaling by protein kinase C delta and protein kinase C gamma. Several transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) encodes the longest isoform (1).