

## Product datasheet for SC313739

### RANBP3 (NM\_007320) Human Untagged Clone

#### Product data:

|                      |                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------|
| Product Type:        | Expression Plasmids                                                                     |
| Tag:                 | Tag Free                                                                                |
| Symbol:              | RANBP3                                                                                  |
| Mammalian Cell       | Neomycin                                                                                |
| Selection:           |                                                                                         |
| Vector:              | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:   | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF: | >SC313739 representing NM_007320.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGTTTCAGAAGGATAAA
GGACAAAAGAGGTGAGTGGCGGCTCCAGTCTGAAGCGGAGAAGATTCTGACAGAGAAGATGGAAT
TACTGCCCTCTGTCAAGCGAGAAAGAACATCCTCTTAACCCAGTTCCACCCCTCACAGTCAGAGGAA
AGGAGCAGTGGCTTCCGGTTGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCA
AGCCAGAAGCCCAAGGAGCAGCAGCGGAGCGTGCTTCGCCCGGCGAGTTACAAGCTCCGACGCCAAAG
GCGCTGTCCAGACTGTCCCGAGCAGTGGACCAACGGGGTCCAGCTCCAGCAGACTGCACGGGGGCA
GTGCCCGCAGCATCCCCGACACTGCTGCATGGAGAAGTCTTCCGAAGCTGCCGATGAGGTGTGTGCA
CTTGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCTGTGAGAAAAA
GACCCCGCCACACAGCAAGCCTTTGTATTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAAATGAG
AGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCAGCGCAGACAGCCAACCGCAACGAATAT
TTCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTCCGACGCCTCCAGCAACAAATTT
GTATTTGGCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAAATTAACGAGGTCAAGTTGATGCC
AACAGGGAAAAATGCAGCTGCCAGTCAGGGTCTGAGTCTCGTCCAGGAGGCCACCCCTGAGAAAGAG
TCCCTGGCTGAGTCGGCAGCCGCTACACCAAGGCAACAGCGCGGAAGTGTGTTGGAAAAAGTGGAA
GTCATCACCGGGGAGGAGGCGGAGCAATGTGTTACAGATGCAGTGAAGCTGTTGTCTTTGACAAG
ACCTCACAGTCTGGGTGGAGAGAGGCGGGGGCTGCTCAGACTCAATGACATGGCGTCCACCGATGAC
GGCACACTACAGTCCGACTAGTGATGCGGACCCAGGGGAGCCTGCGACTGATCCTCAACCAAGCTG
TGGGCCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATTCGCATCACAGCCATGGACACCGAGGAC
CAGGGCGTGAAGTCTTCTGATCTCGCCAGCTCCAAGGACACAGGTCAAGTTGATGCAGCCCTGCAC
CACCGCATCTGGCCCTGCGCAGCCGCTGGAGCAGGAGCAGGAGGCCAAGATGCCCGCGCTGAGCCT
GGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCCTGGCTCCTTCAGGGGCCACC
GCAGCTGGTGTGTCGACGAAGGGGACGGGAGACGACGGGAGCACA TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | Sgfl-Mlul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ACCN:</b>                  | NM_007320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 1500 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> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_007320.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq Size:</b>           | 3211 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1500 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 8498                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <a href="#">Q9H6Z4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Domains:</b>               | Ran_BP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW:</b>                    | 53.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Gene Summary:**

This gene encodes a protein with a RanBD1 domain that is found in both the nucleus and cytoplasm. This protein plays a role in nuclear export as part of a heteromeric complex. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (RANBP3-b) lacks an alternate in-frame exon, compared to variant RANBP3-d, resulting in a shorter protein (isoform RANBP3-b), compared to isoform RANBP3-d.