

## Product datasheet for RC236520

### RANBP1 (NM\_001278640) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RANBP1 (NM\_001278640) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RANBP1  
**Synonyms:** HTF9A  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236520 representing NM\_001278640  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCGCCAAGGACACTCATGAGGACCATGATACTTCCACTGAGAATACAGACGAGTCCAACCATG  
 ACCCTCAGTTTGAGCCAATAGTTTCTCTCCTGAGCAAGAAATAAAACACTGGAAGAAGATGAAGAGGA  
 ACTTTTTAAAATGCGGGCAAACTGTTCCGATTTGCCTCTGAGAACGATCTCCAGAATGGAAGGAGCGA  
 GGCACTGGTGACGTCAAGCTCCTGAAGCACAAGGAGAAAGGGGCCATCCGCCTCCTCATGCGGAGGACA  
 AGACCCCTGAAGATCTGTGCCAACCACTACATCACGCCGATGATGGAGCTGAAGCCCAACGCAGGTAGCGA  
 CCGTGCCTGGGTCTGGAACACCCACGCTGACTTCGCCGACGAGTGCCCAAGCCAGAGCTGCTGGCCATC  
 CGCTTCTGAATGCTGAGAATGCACAGAAATCAAACAAAGTTTGAAGAATGCAGGAAAGAGATCGAAG  
 AGAGAGAAAAGAAAGGATCAGGCAAAAATGATCATGCCGAAAAGTGCGGAAAAGCTAGAAGCTCTCTC  
 GGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAGAAGCAA

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236520 representing NM\_001278640  
 Red=Cloning site Green=Tags(s)

MAAAKDTHEDHDTSTENTDESNDHPQFEPVIVSLPEQEIKTLEEDDEEELFKMRAKLFRAFSENDLPEWKER  
 GTGDVLLKHKEKGAIRLLMRRDKTLKICANHYITPMMELKPNAGSDRAWVWNTHADFADECPPELLAI  
 RFLNAENAQKFKTKFEERKEIEEREKKGSGKNDHAEKVAEKLEALSVKEETKEDAEKQ

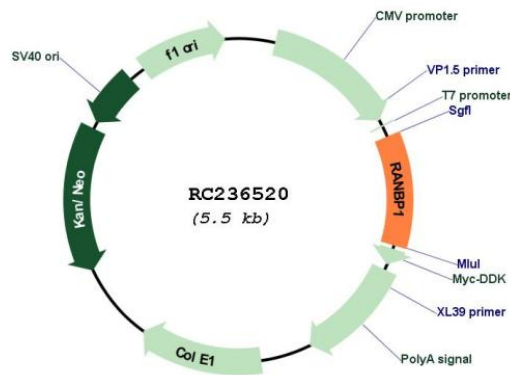
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001278640

**ORF Size:** 600 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\\_001278640.2](#)

**RefSeq Size:** 1134 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 5902

**UniProt ID:** [P43487](#)

**Cytogenetics:** 22q11.21

**MW:** 23.7 kDa

**Gene Summary:** This gene encodes a protein that forms a complex with Ras-related nuclear protein (Ran) and metabolizes guanoside triphosphate (GTP). This complex participates in the regulation of the cell cycle by controlling transport of proteins and nucleic acids into the nucleus. There are multiple pseudogenes for this gene on chromosomes 9, 12, 17, and X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]