

Product datasheet for **RG223305**

RANBP1 (NM_002882) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RANBP1 (NM_002882) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RANBP1
Synonyms: HTF9A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223305 representing NM_002882
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCCCAAGGACACTCATGAGGACCATGATACTTCCACTGAGAATACAGACGAGTCCAACCATG
ACCCTCAGTTTGAGCCAATAGTTTCTCTCCTGAGCAAGAAATAAAACACTGGAAGAAGATGAAGAGGA
ACTTTTTAAAATGCGGGCAAACTGTTCCGATTTGCCTCTGAGAACGATCTCCAGAATGGAAGGAGCGA
GGCACTGGTGACGTCAAGCTCCTGAAGCACAAGGAGAAAGGGCCATCCGCTCCTCATGCGGAGGGACA
AGACCCGAAGATCTGTGCCAACCACTACATCACGCCGATGATGGAGCTGAAGCCAACGCAGGTAGCGA
CCGTGCCTGGGTCTGGAACACCCACGCTGACTTCGCCGACGAGTGCCCAAGCCAGAGCTGCTGGCCATC
CGTTCCTGAATGCTGAGAAATGCACAGAAATTCAAAACAAAGTTTGAAGAATGCAGGAAAGAGATCGAAG
AGAGAGAAAAGAAAGCAGGATCAGGCAAAAATGATCATGCCGAAAAAGTGGCGGAAAAGCTAGAAGCTCT
CTCGGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAGAAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223305 representing NM_002882
Red=Cloning site Green=Tags(s)

MAAAKDTHEDHDTSTENTDESNHDPQFEPIVSLPEQEIKTLEEEDEELFKMRAKLFRFASENDLPEWKER
GTGDVKLLKHKEKGAIRLLMRRDKTLKICANHITPMMELKPNAGSDRAWVWNTHADFADECPKPELLAI
RFLNAENAQKFKTKFEERKEIEEREKKAGSGKNDHAEKVAEKLEALSVKEETKEDAEKQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_002882

ORF Size: 603 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_002882.4](#)

RefSeq Size: 884 bp

RefSeq ORF: 606 bp

Locus ID: 5902

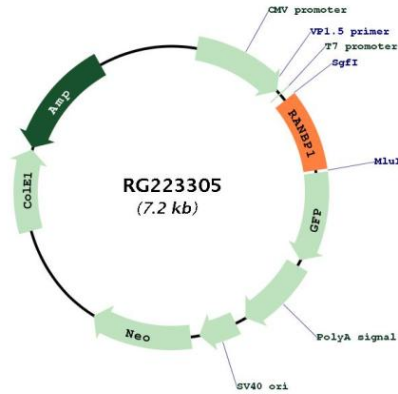
UniProt ID: [P43487](#)

Cytogenetics: 22q11.21

Domains: Ran_BP1

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]

Product images:



Circular map for RG223305