

Product datasheet for **RG222064**

RANBP17 (NM_022897) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANBP17 (NM_022897) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RANBP17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222064 representing NM_022897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCACTTCCAGAGTTTGGCTGAATTGGAAGTGTATGTACTCATCTCTACATAGGGACTGATC
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CATCACAGCCCAAGCTGGCTCCCTTTGTCATCCAAGCTCTTATTCAAGTCATTGCTAAAACTAACTAAGTT
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GCAGTGATGGCAACACTGAACCATGCAGTCTCGACATGATGAGC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222064 representing NM_022897

Red=Cloning site Green=Tags(s)

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MALHFQSLAELEVLCTHLYIGTDLTQRIEAEKALLELIDSPECLSKCQLLLEQGTTSYAQLLAATCLSKL
VSRVSPLPVEQRMDIRNYILNYVASQPKLAPFVIQALIQVIAKITKLGWFEVQKQDFVFREIIADVKKFL
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AIVVRDHLDDPLDDTATVFQQLCTVSRCEYEKTCALLVQLFDQNAQNYQKLLHPYSGVTVDITIQEG
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LQIFNNNFQEDVKRMLIGLARDLRLGIAFALNTKTSYTMFLDWMYPTYLPLLQNAVERWYGEPTCTPIIL
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LCGNYVSFGVFKLYGDNHFDNLQAFVKMLLSVSHSDLLQYRKLQSYYPLLECLTQDHMSFIINLEPPV
LMYVLTISEGLTTLDTVVSSSCTSLDYIVTYLFKHIAKEGKKPLRCREATQAGQRLHFQMQNPDLQ
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SVKNRDRFTQNLVFRDVAEALRSDGNTEPCSLDMMS
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TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022897

ORF Size: 3264 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_022897.5](#)

RefSeq Size: 4450 bp

RefSeq ORF: 3267 bp

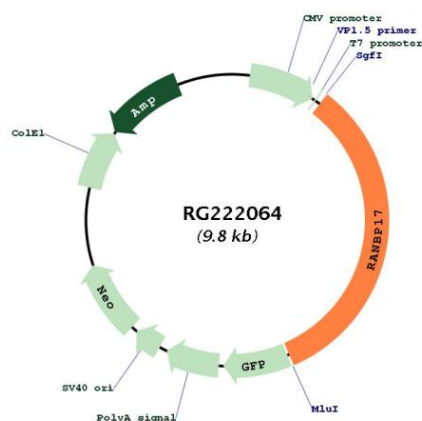
Locus ID: 64901

UniProt ID: [Q9H2T7](#)

Cytogenetics: 5q35.1

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]

Product images:



Circular map for RG222064