

Product datasheet for **RG214493**

RANBP3 (NM_007322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RANBP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG214493 representing NM_007322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCTCTTTGTGTTTCAGAAGGATAAAG
 GACAAAAGTCCCCTGCAGAGCAAAAAAAGTTCGCGATTCCGGAGAGGAGCCTCGGGGGGAGGCTGAGGC
 CCCCCACCATGGCAGCGGTACCCCCAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTGCTGGC
 GCCTCAGCCAGCACTCTCCGCTCCCGCTCTGAAGCCAGCTTCTCTTTTCCGCGAGAAGTGGCAG
 GGAGGTGAGTGGCGGCTCCAGTCTGAAGCGGAGAAGATTCTGACAGAGAAGATGGAAATTAAGTCCC
 TCCGTGCAAGCGAGAAAGAACATCCTCTTTAACCCAGTTCACCCCTCACAGTCAGAGGAAAGGAGCAGT
 GGCTTCCGTTGAAGCCACCAACGCTGATCCACGGCCAGCCCCAGCGAGGTCTGCCAAGCCAGAAGC
 CCAAGGAGCAGCAGCGAGCGTGTTCGCCCGGAGTGTACAAGCTCCGAGCCAAAGGCGCTGTCCCA
 GACTGTCCCAGCAGTGGCACCACGGGTGAGCTCCAGCAGACTGCACGGGGCAGTGCCTCGCAGCA
 TCCCCTGACACTGCTGCATGGAGAAGTCTTCCGAAGCTGCCGATGAGGTGTGTGCACTTGAGGAGAAAG
 AGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCTGTGAGAAAAAGACCCGCCACACA
 GCAAGCCTTTGATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAAATGAGAGCGTGGACGAAGCC
 GACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAACTATTTCTCCAGTATATCA
 GTTCCAGTTTAGAGAACTCAACCAATAGTCCGAGCGCTCCAGCAACAAATTTGTATTGGCCAGAACAT
 GAGCGAGCGAGTTTGAAGCCCCCAAAATTAACGAGGTGAGTTGAGTCCAGTCCCAAGGAGGAAATGAGCT
 GCCGAGTCAAGGTCTGAGTCTCTGCTCCAGGAGGCCACCCCTGAGAAAGAGTCCCTGGCTGAGTGGCAG
 CCGCTACACCAAGGCAACAGCGCGGAAGTGTGTTGGAAAAAGTGAAGTATCACCGGGGAGGAGGC
 GGAGAGCAATGTGTTACAGATGCAAGTGTGTTGCTTTGACAAGACCTCACAGTCTGGGTGGAG
 AGAGGCCGGGGGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAG
 TGATGCGGACCCAGGGGAGCTGCGACTGATCTCAACACCAAGCTGTGGGCCAGATGCAGATCGACAA
 GGCCAGCGAGAAGGATTCGATCACAGCCATGGACACCGAGGACCGGGCGTGAAGGTCTTCTGATC
 TCGGCCAGCTCCAAGGACACAGGTGAGTTGATGACGCCCTGCACCAACCGCATCTGGCCCTGCGCAGCC
 GCGTGGAGCAGGAGCAGGAGGCAAGATGCCCGCGCTGAGCTGGGGCAGCCCATCCAACGAGGAGGA
 CGACAGCGACGATGACGATGTCTGCTCTTCAAGGGGCCACCGCAGCTGGTGTGTTGACGAAGGGGAC
 GGGCAGACGACCGGAGCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214493 representing NM_007322
 Red=Cloning site Green=Tags(s)

MADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGEHALEPPAPAG
 ASASTPPPPAPEAQLPPFPRELGRSAGGSPEGGEDSDREDGNYCPPVKRERTSSLTQFPSSQSEERSS
 GFRLLKPPTLIHQAPSAGLPSQKPKQQRSVLRPAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAA
 SPDTAAWRSPSEAADEVCALEEKQKNESSNASEEEACEKKDPATQQAFFVFGQNLDRVKLINESVDEA
 DMENAGHPSADTPTATNYFLQYISSLENSTNSADASSNKFVFGQNMSESVLSPPKLNEVSSDANRENAA
 AESGSESSSQEATPEKESLAESAAAYTKATARKCLLEKVEITGEEAESNVLMQCKLFVFDKTSQSWVE
 RGRGLRLNDMASTDDGTLQSRVMRTQGSRLILNTKLWQMIDKASEKSIRITAMDTEDQGVKVFLLI
 SASKDTGQLYAALHHRILALRSRVEQEAEKMPAPEPGAAPSNEEDSDDDDLAPSGATAAGAGDEGD
 GQTTGST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007322

ORF Size: 1701 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007322.3](#)

RefSeq Size: 2439 bp

RefSeq ORF: 1704 bp

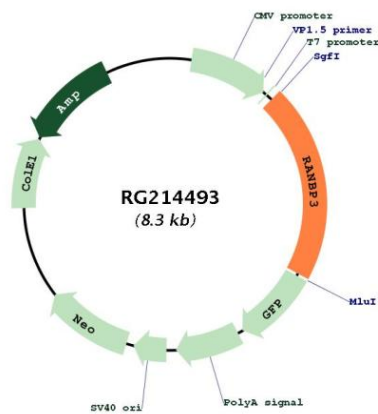
Locus ID: 8498

UniProt ID: [Q9H6Z4](#)

Cytogenetics: 19p13.3

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]

Product images:



Circular map for RG214493