

Product datasheet for **RG237123**

RANBP1 (NM_001278639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANBP1 (NM_001278639) 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:	>RG237123 representing NM_001278639. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGTCGGCCTTGGGCCGGCCAGGCGCACACTGAGTGGCGGCCTTCCAGAGGGCACCATGCAAA
ACGCGCAGGGCCTTGTCCCTCTCTGCAGCGCTGCGGAATGTCACAAAGGCGCAGGGTGGTTGCCAAAG
AGTTTGGTTTTGTGGGGCTGCAGACCAAGCGGCCAGGAAGCGCCGACGTCGCTGAAGCTGGCGTGG
CGAGGCACGTTCTGCAGCTCCAGTTTAAAGATCTCAGAGGACACTCATGAGGACCATGATACTTCCACT
GAGAATACAGACGAGTCCAACCATGACCCTCAGTTTGAAGCAATAGTTTCTTTCCTGAGCAAGAAATT
AAAACACTGGAAGAAGATGAAGAGGAATTTTTAAAATGCGGGCAAAACTGTTCCGATTTGCCTCTGAG
AACGATCTCCCAGAATGGAAGGAGCGAGGCACTGGTGACGTCAAGCTCCTGAAGCACAAGGAGAAAGGG
GCCATCCGCCTCCTCATGCGGAGGGACAAGACCCTGAAGATCTGTGCCAACCACTACATCAGCCGATG
ATGGAGCTGAAGCCCAACGCAGGTAGCGACCGTGCCTGGGTCTGGAACACCCACGCTGACTTCGCCGAC
GAGTGCCCAAGCCAGAGCTGCTGGCCATCCGCTTCTGAATGCTGAGAAATGCACAGAAATCAAAAACA
AAGTTTGAAGAAATGCAGGAAAGAGATCGAAGAGAGAGAAAAGAAAGCAGGATCAGGCAAAAATGATCAT
GCCGAAAAGTGGCGAAAAGCTAGAAGCTCTCTCGGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAG
AAGCAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237123
 Blue=ORF Red=Cloning site Green=Tag(s)

MGSALGRARRTL SGRPFQRAPCKTRRALSL SAALRNVTKAQGGCPKSLVLWGCRPKRPRKRRTSLKLAW
 RGTFCSSSLKISEDTHEDHDTSTENTDESNHDPQFEPVLSLPEQEIKTLEEEDEELFKMRAKLRFRASE
 NDLPWKERTGTDVLLKHKEKGAIRLLMRRDKTLKICANHITPMMELKPNAGSDRAWVWNTHADFAD
 ECPKPELLAIRFLNAENAQKFKTKFEERKEIEEREKKAGSGKNDHAEKVAEKLEALSVKEETKEDAEK
 KQ

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278639

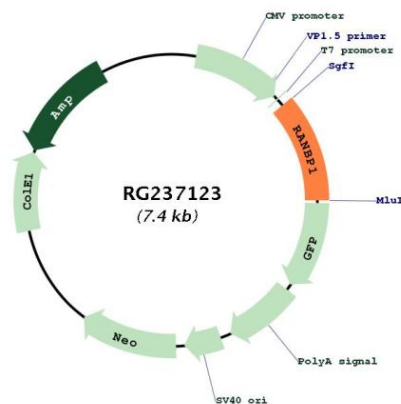
ORF Size: 834 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).
RefSeq:	NM_001278639.2
RefSeq Size:	1389 bp
RefSeq ORF:	837 bp
Locus ID:	5902
UniProt ID:	P43487
Cytogenetics:	22q11.21
MW:	32.4 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]

Product images:



Circular map for RG237123