

Product datasheet for **RG238995**

RANGAP1 (NM_001278651) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANGAP1 (NM_001278651) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RANGAP1
Synonyms:	Fug1; RANGAP; SD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238995 representing NM_001278651.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGACAGCTG
AGTTTTCAAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAGAGATTGAA
GACTTTGACAGCTTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGAAGCAGCCAGGGTCATC
GCCAAGGCCTTAGAGAAGAAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTG
CGGACCGAGATCCCACCAGCCCTGATCTACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTG
GAGCTGGACTTAAGCGACAACGCATTGGGGCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGC
TCAGCCTGCTTACCCTGCAGGAACCAAGCTCAACAACGTGGCATGGCATTGGCGCGGCAAGATC
CTGGCTGCAGCTCTGACCGAATGCACCGAAATCCAGTGCCCAAGGCAAGCCTCTGGCCCTGAAGGTC
TTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTGGCAGAAGCTTTTAGGGTCATC
GGGACCTGGAGGAGTCCACATGCCACAGAATGGGATCAACCACCTGGCATCACTGCCCTGGCCAG
GCTTTTCGCTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAGAAGGGCGCC
GTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTGGGGACTGCCTGGTG
CGCTCAAAGGTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCAAGCTAAAGGAGCTGAAC
TTGTCAATCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAG
CTGGAGAAGCTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTG
GAGGGCTTCAACATGGCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGAA
GGAGAAGAGGAAGAAGAGGAGCAAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAG
GAGGAGGAGGAAGAAGAGCCTCAGCAGCGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCAGGAAGATT
CTGGACCCTAACACTGGGGAGCCAGCTCCCGTGTCTCCTCCCCACCTCCTGCAGACGTCTCCACCTTC
CTGGCTTTTCCCTCTCCAGAGAAGCTGCTGCGCCTAGGGCCCAAGAGCTCCGTGCTGATAGCCAGCAG
ACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCTAAAGGTGTCATCTGTGTTCAAGGACGAA
GCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAGGCTTCAACTCCTCGTCC
TTCAACTCCAACACCTTCTCACCAGGCTCCTCGTGCACATGGGTCTGCTCAAGAGTGAAGACAAGGTC
AAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTATTTCCCC
AAGGCCCTTGACCCCTGCTGCTGGCGTTCGTGACCAAGCCCAACAGCGCCCTGGATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238995
 Blue=ORF Red=Cloning site Green=Tag(s)

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MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNLAEDAKDVIKEIEDFDSLEALRLENGTVGVEAARVI
AKALEKSELKRCHWDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFALLKS
SACFTLQELKLNNCGMGI GGGKILAAALTECHRKSSAQGKPLALKVVFVAGRNRLENDGATALAEAFRVI
GTLEEVHMPQNGINHPIGITALAQAFVNP LLRVINLNDNTFTEKGAVAMAETLKT LRQVEVINFGDCLV
RSKGAVAIADAI RGGLPK LKELNLSFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEV L
EGFNMAKVLASLSDDEDEEEEEEGEEEEEAEEEEEEDEEEEEEEEEEEEEEPQQRGQGEKSATPSRKI
LDPNTGEPAPVLSPPADVSTFLAFPSPEKLLRLGPKSSVLI AQQTDTSDPEKVVS AFLKVSSVFKDE
ATVRMAVQDAVDALMQAFNSSFNSNTFLTRLLVHMGLLKS EDKVKAIANLYGPLMALNHMVQQDYFP
KALAPLLLAFVTKPNSALESCSFARHSL LQTL YKV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001278651

ORF Size: 1761 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).

RefSeq: [NM_001278651.1](#), [NP_001265580.1](#)

RefSeq Size: 4368 bp

RefSeq ORF: 1764 bp

Locus ID: 5905

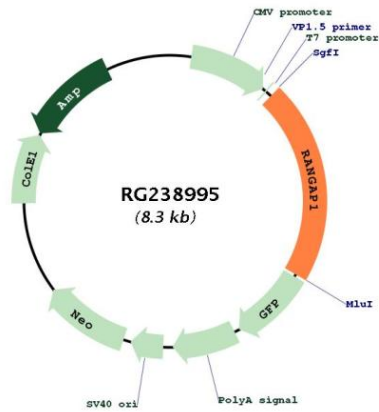
UniProt ID: [P46060](#)

Cytogenetics: 22q13.2

MW: 63.5 kDa

Gene Summary: This gene encodes a protein that associates with the nuclear pore complex and participates in the regulation of nuclear transport. The encoded protein interacts with Ras-related nuclear protein 1 (RAN) and regulates guanosine triphosphate (GTP)-binding and exchange. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG238995