

Product datasheet for **SC118326**

RANGAP1 (NM_002883) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANGAP1 (NM_002883) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANGAP1
Synonyms:	Fug1; RANGAP; SD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC118326 sequence for NM_002883 edited (data generated by NextGen Sequencing)

```
ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGG
GGACAGCTGAGTTTCAAAGGCAAGAGCCTCAAACACTGCAGAAGATGCTAAAGAT
GTGATTAAGAGATTGAAGACTTTGACAGCTTGGAGGCTCTGCGTCTGGAAGGCAACACA
GTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAGAAGTCGGAGTTGAAG
CGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGC
GACAACGCATTCCGGCCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCC
TGCTTACCCTGCAGGAAGCTCAAGCTCAACAAGTGGCATGGGCATTGGCGGGGCAAG
ATCCTGGTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCCCAAGGCAAGCCTCTG
GCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCCTGGAGGAGGTCCACATGCCACAGAATGGGATC
AACCACCCTGGCATCACTGCCCTGGCCAGGCTTTCGCTGTCAACCCCTGCTGCGGGTC
ATCAACCTGAATGACAACACCTTCACTGAGAAGGGCGCCGTGGCCATGGCCGAGACCTTG
AAGACCTTGCGGAGGTGGAGGTGATTAATTTTGGGGACTGCCTGGTGGCTCCAAGGGT
GCAGTTGCCATTGCAGATGCCATCCGCGCGGCCCTGCCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAA
GCTGAGCTGGAGAAGCTGGACCTGAATGGCAACACCCCTGGGAGAAGAAGGCTGTGAACAG
CTTCAGGAGGTGCTGGAGGGCTTCAACATGGCCAAGGTGCTGGCGTCCCTCAGTGATGAC
GAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAAGCAGAAGAAGAGGAG
GAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGG
GAGCCAGCTCCCGTGTCTCCTCCACCTCCTGCAGACGTCTCCACCTTCTGGCTTTT
CCCTCTCCAGAGAAGCTGCTGCGCCTAGGGCCCAAGAGCTCCGTGCTGATAGCCAGCAG
ACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCTAAAGGTGTCATCTGTGTTT
AAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCTTCAACTCCAACACCTTCTCACCAGGCTCCTCGTGCACATG
GGTCTGCTCAAGAGTGAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATG
GCGCTGAACCACATGGTGCAGCAGGACTATTTCCCAAGGCCCTTGACCCCTGCTGCTG
GCGTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTCCGCCGCCACAGTCTG
CTGCAGACGCTGTACAAGGTCTAG
```

Clone variation with respect to NM_002883.2
1548 g=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002883 unedited
 GTTCAGNCATATTTGTNAATACGACTCACTATTAGGGCGGCCGNAATTCGCACCAGGC
 TGGATCCGGAGTCTGCAGATCTCCAGGGGGGGCCACCAGCCTAGTCAACATGGCCTCGG
 AAGACATTGCCAAGCTGGCAGAGACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGA
 GTTTCAAAGGCAAGAGCCTCAAACCTCAACTGCAGAAGATGCTAAAGATGTGATTAAG
 AGATTGAAGACTTTGACAGCTTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGCGTGG
 AAGCAGCCAGGGTCACTCGCAAGGCCTTAGAGAAGAAGTCGGAGTTGAAGCGCTGCCACT
 GGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCACCAGCCCTGATCTCACTAG
 GGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCAT
 TCGGGCCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCAACC
 TGCAGGAACTCAAGCTCAACAAGTGGCATGGGCATTGGCGGGCAAGATCCTGGCTG
 CAGCTCTGACCGAATGTACCCGAAATCCAGTGCCCAAGGCAAGCCTCTGGCCCTGAAGG
 TCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTGGCAGAAGCTN
 TTAGGGTCATCGGACCCCTGNGAGGAGTCCACATGCCACAGAATGGGATCAACCACCTG
 GCATCACTGCCCTGGCCCGAGCTTTCGCTGTCAACCCCTGCTGCGGNTCATCAACTGA
 ATGANCACCTCACTGAAAAGGCGCCGTGGCCATGGCCGAGACCTTGAAGAATTGCN
 GCAGGTGGAGGTGATTAATNTTGGGACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002883 unedited
 NNNNGGGTTATACTAAGNAACCGCGCCGCAANCTAGNGATCGATTTTTTTTTTTTTTTTT
 TTTGAAACCGC
 CCCCCACTTTTTTTTGGAAACCCCGGGGCCCGCCAAACCCCGGAGCACAAGGG
 GAAACCTGGGGCAATCCCGGGGCCAGGGGGGCAAAAACATTTGCCAGTCCAAAA
 CCTACCGTCCCTGGCCCAAGAGGGCCTTTAAAAACACGTCCAAAAGCCCTCGGACA
 TTGGGGACCCCGCCCTCCCCCCCCAAAATGGAAAAAACTTTGGGTTGTTAAAACCTCC
 CCCCCAGCCCGCCAGTTACAAAAAAATTTAACAGCCAGAAAAAGCCCCCTAAGTCC
 GGGGCCACGCAATCCCAACAACCTCCTGGTCTGGGAAAATTGGGGGCTGCCCGTCCACC
 CCGGGGGGGGCCAGGGTGCCTTTGGCAAAAACCCCGATTCCACCCCAACAATCCC
 CCCCTGGGATTTCTGGTTTTTAAGGTGAACGGGCAACAATGGTTTTGATGGGAAGG
 GGAAAAATTTCCCAAGAACCCTGGCTTTGTGACCAAAAACAACCCCGGGGGGGGGGA
 ACAACCCATCCACACAAGGGGAAGGGCCACCCCGGGCCACTCCTTGGGTTCTGCC
 TCCCCCGGGACCCGGCCCAAAGCCAGTGGGGGGGAACCGCCCTCAGGCCCCAGCC
 GGAAATTAACAAAACCCCGGGGGGGGAAATTAAGGGGGGAAACCTTCAAACCC
 TTTCCCGGGGGCAACCCCAAAAAAAAGGGTGGGCCACAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_002883

Insert Size:

3000 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](#)

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_002883.2](#), [NP_002874.1](#)

RefSeq Size: 3040 bp

RefSeq ORF: 1764 bp

Locus ID: 5905

UniProt ID: [P46060](#)

Cytogenetics: 22q13.2

Domains: LRR, LRR_RI

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.