

Product datasheet for **MC204740**

Rangap1 (NM_011241) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rangap1 (NM_011241) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rangap1
Synonyms:	C79654; Fug1; mKIAA1835
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC052862
AAGAGGTAATCCGCCCGCCGAGCAAGGAGAGGCAAGCAGACTGGTCACTGGGCCTGGCCCCACGCGGAC
TCTCAAGCAGTGACCGACGCGCGGTTCCGTCCCCCACGCCGCGGTGCCGCTAATTTGTGTTTACAGAC
CTGCAGGGGAGCCCGCCACTGCAGCCATGGCCTCTGAAGACATTGCCAACTGGCAGAGACCCTGGCTAA
AACTCAGTAGCCGGAGGGCAGCTGAGTTTTAAGGCAAGGTCTCAAATAACTGCAGAAGATGCT
AAAGATGTGATTAAGGAGATTGAAGAGTTTGACGGCCTCGAAGCTCTACGATTGGAGGGCAACACGGTGG
GCGTGGAAGCGGCCAGAGTCATCGCCAAGGCCTTAGAGAAGAAGTCTGAGCTGAAGCGATGCCACTGGAG
TGACATGTTACAGGAAGGCTTCGGTCTGAGATCCCACCAGCTCTGATCTCACTAGGGGAGGGACTCATC
ACTGCAGGAGCACAGCTGGTGAACTGGACCTCAGTGACAACGCATTTGGACCCGATGGAGTGCGAGGCT
TCGAGGCCCTCCTCAAGAGCCCAGCCTGCTTACCCTACAGAACTCAAGCTTAACAACCTGTGGCATGGG
CATCGGGGTGGCAAGATTCTGGCAGCAGCTCTGACTGAGTGTACCGCCAAGTCCAGTGCCCAAGGCAAG
CCCCTGGCCCTGAAGGTGTTTGTGGCTGGCAGAAATCGCCTGGAGAATGACGGAGCCACTGCACTGGCAG
AAGCTTTTGGGATCATCGGGACTCTGGAAGAGGTGCATATGCCACAGAACGGAATTAACCATCCTGGTGT
CACAGCCCTGGCCAGGCCTTTGCCATCAACCCCTGTTGCGAGTCATCAACCTAAATGACAACACCTTC
ACTGAGAAGGGTGGGGTGGCCATGGCTGAGACTCCGAAGACTCTGCGACAAGTGAAGTGTCAATTTTG
GAGACTGCCTGGTGCCTTAAGGGTGCCTTGCCATCGCAGATGCTGTCCGTGGTGGCCTGCCAAGCT
AAAGGAGCTGAATCTGTGCTTCTGCGAAATCAAGAGAGATGCTGCCCTGGTTGTTGCTGAGGCTGTGGCC
GACAAGGCTGAGCTGGAGAAGCTGGACCTCAATGGCAATGCCCTCGGAGAAGAGGGCTGTGAGCAGCTTC
AGGAGGTGATGGACAGCTTCAATATGGCCAAGGTGCTGGCATCCCTCAGTGATGATGAGGGAGAGGATGA
AGATGAGGAGGAAGAAGGAGAAGAGGATGATGAGGAGGAGGAAGATGAAGAGGATGAGGAAGATGATGAT
GAGGAGGAGGAGGAGCAGGAGGAAGAGGAGCCTCCGCAGAGAGGGTCAAGGGAGGAGCCGGCTACAC
CCTTGAGGAAGATCCTGGACCCTAACAGTGGGGAGCCAGCTCCCCTGCTGTCTCCCCGACTCCCACAGA
CCTCTCCACCTTCTGTCTTCCCTCCCCCAGAGAAGCTGCTGCGTCTGGGTCCCAAGGTCTCGGTGCTG
ATAGTCCAGCAGACTGATACCTCCGACCCAGAGAAGGTTGTTTCAGCCTTCTGAAGGTGGCATCTGTGT
TCAGGGATGACGCCTCAGTAAAGACCGCAGTGCTGGATGCCATCGATGCCCTCATGAAGAAGGCCTTCAG
CTGCTCTCTTTCAATTCACACCTTCTTACCAGGCTGCTCATCCACATGGGTCTGCTCAAGAGTGAA
GACAAGATCAAGGCCATACCCAGCCTGCATGGCCCCCTGATGGTGTGAACCACGTGGTGAAGGCAGGACT
ATTTCCCCAAGGCCCTTGACCCCTGCTTGGCATTGTGACAAAGCCCAATGGCGCGCTGGAAACCTG
CTCCTTTGCCCGCCACAATCTGCTGCAGACGCTATACAACATCTAGATTTAAAGGCAGCTGCTTCTGTG
CCTCGCCCTGCCCAGTGACTGAGGGTCTTGGGTGGACTGAGCTCGGCCAGCATCTCCATTGGATATTTT
GACCAGAGGAAGGAGAGGGTCTTGTCTCTGTGTATATTGGTCTTTGATACTGTGTTGGTTTGGTGT
GTGTGTGGGTATGTACTTCTGTCTGGATTGCAGATCTTCATCTCCCTGCTGGACTAACCCAAGTCCA
CTGTGGGGAATTGATGCCTAGGGGAAGGGTAGAAAAGCTGCTTTGTTATTAACCTTAGGCCAATTAGCCA
TAGGCCCGTGGCTGTCTGTCTGCCCTGCCTTCTGTCCCACCAAGCCTGGGGAATTCTGTGTGCTG
TGTCCACCGTGCCTAAATAACAGAGGCTATCAGAGATGGGCTATCATTAGAAAAGTAAAACCTCAGCCGGG
GTGGTGGCACATGCCTTAAATCCAGCAGTCCAGGAGACAGAGGCAGGCAGAACTTGAGTTTGAAGCCAG
CCTGGTCTACAAAGTGAAGTCCAGGACAGCCAGGTCTATACAGAGGAACCTGTCTCAAAAAACAAAAA
CAAAAAAAACCTCTGCCCTTAACCATGTGACTTGGAGGAGCAGCCAGGGGAGTGGGAGCTGTCTGGGG
TAACCTGGCTTAGGACCAGGTGAAAAAGCACCTTGGCTGGCCAGCCCTGTTCTTCTCCTGGGGAGGG
AAGGGCAGGTCCCCTAATGCCTGAACCACATGTTGGCCTACTCTGAGGGTTTTCTAAGACAGGAGTG
TGTAATAGGGATGGAGCCGGTAAGAGATGCTCTGTGACTTCCGAAAGTGGCTGCTTGGCCACCTCTAC
TTCCCGTGTGTGTGTCTGGGCTGTGCCTGGGAGCTTACAAATAAACGTCATCTGTGTAAAAAAA
AAAAAAAAG

Restriction Sites: RsrII-NotI
ACCN: NM_011241
Insert Size: 1770 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC052862 , AAH52862
RefSeq Size:	2888 bp
RefSeq ORF:	1770 bp
Locus ID:	19387
UniProt ID:	P46061
Cytogenetics:	15 38.21 cM
Gene Summary:	<p>GTPase activator for RAN. Converts cytoplasmic GTP-bound RAN to GDP-bound RAN, which is essential for RAN-mediated nuclear import and export (PubMed:18305100). Mediates dissociation of cargo from nuclear export complexes containing XPO1, RAN and RANBP2 after nuclear export (By similarity). Required for postimplantation embryonic development (PubMed:8314081).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and has multiple coding region differences, compared to variant 3. These differences cause translation initiation at a downstream AUG and result in an isoform (1) with a shorter N-terminus, compared to isoform 2.</p>