

## Product datasheet for **MR209194**

### Rangap1 (NM\_011241) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rangap1 (NM_011241) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rangap1
Synonyms:	C79654; Fug1; mKIAA1835
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209194 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTCTGAAGACATTGCCAACTGGCAGAGACCCCTGGCTAAACTCAGGTAGCCGGAGGGCAGCTGA  
 GTTTTAAGGGCAAGGGTCTCAAACCTAAACTGCGAGAAGATGCTAAAGATGTGATTAAGGAGATTGAAGA  
 GTTTGACGGCCTCGAAGCTCTACGATTGGAGGGCAACACGGTGGGCGTGAAGCGCCAGAGTCATCGCC  
 AAGGCCTTAGAGAAGAAGTCTGAGCTGAAGCGATGCCACTGGAGTGACATGTTACAGGAAGGCTTCGGT  
 CTGAGATCCCACCAGCTCTGATCTCACTAGGGGAGGGACTCATCACTGCAGGAGCACAGCTGGTGGAACT  
 GGACCTCAGTGACAACGCATTTGGACCCGATGGAGTGGGAGGCTTCGAGGCCCTCCTCAAGAGCCCAGCC  
 TGCTTCACCTACAGGAAGCTCAAGCTTAACAACGTGGCATGGGCATCGGGGTGGCAAGATTCTGGCAG  
 CAGCTCTGACTGAGTGTACCCGCAAGTCCAGTGCCCAAGGCAAGCCCTGGCCCTGAAGGTGTTTGTGGC  
 TGGCAGAAATCGCCTGGAGAATGACGGAGCCACTGCACTGGCAGAAGCTTTGGGATCATCGGGACTCTG  
 GAAGAGGTGCATATGCCACAGAACGGAATTAACCATCCTGGTGTACAGCCCTGGCCAGGCCTTTGCCA  
 TCAACCCCTGTTGCGAGTCATCAACCTAAATGACAACACCTTCACTGAGAAGGGTGGGGTGGCCATGGC  
 TGAGACTCTGAAGACTCTGCGACAAGTGGAAAGTATCAATTTGGAGACTGCCTGGTGGCTCTAAGGGT  
 GCCGTTGCCATCGCAGATGCTGTCCGTGGTGGCCCTGCCAAGCTAAAGGAGCTGAATCTGTGCTTCTGCG  
 AAATCAAGAGAGATGCTGCCCTGGTGTGGTGTGAGGCTGTGGCCGACAAGGCTGAGCTGGAGAAGCTGGA  
 CCTCAATGGCAATGCCCTCGGAGAAGAGGGCTGTGAGCAGCTTCAGGAGGTGATGGACAGCTTCAATATG  
 GCCAAGGTGCTGGCATCCCTCAGTGATGATGAGGGAGAGGATGAAGATGAGGAGGAAGAAGGAGAAGAGG  
 ATGATGAGGAGGAGGAAGATGAAGAGGATGAGGAAGATGATGATGATGAGGAGGAGGAGCAGGAGGAAGA  
 GGAAGAGCCTCCGACAGAGAGGGTCAGGGGAGGAGCCGGCTACACCTCGAGGAAGATCCTGGACCCTAAC  
 AGTGGGGAGCCAGCTCCCGTGTCTCCTCCCGACTCCCACAGACCTCTCCACCTTCTGTCTATCCCT  
 CCCAGAGAAGCTGCTGCGTCTGGTCCCAAGTCTCGGTGCTGATAGTCCAGCAGACTGATACCTCCGA  
 CCCAGAGAAGGTTGTTTCAGCCTTCTGAAGGTGGCATCTGTGTTCAAGGATGACGCCTCAGTAAAGACC  
 GCAGTGTGGATGCCATCGATGCCCTCATGAAGAAGGCCCTCAGCTGCTCCTTTCAATCCAACACCT  
 TCCTTACCAGGCTGCTCATCCACATGGTCTGCTCAAGAGTGAAGACAAGATCAAGGCCATACCCAGCCT  
 GCATGGCCCCCTGATGGTGTGAACCACGTGGTGAAGCAGGACTATTTCCCAAGGCCCTTGACCCCTG  
 CTCTTGGCATTGTGACAAAGCCCAATGGCGCGCTGGAACCTGCTCCTTTGCCGCCACAATCTGCTGC  
 AGACGCTATACAACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209194 protein sequence  
 Red=Cloning site Green=Tags(s)

MASEDIAKLAETLAKTQVAGGQLSFKGKGLKLNTAEDAKDVIKEIEEFDGLEALRLENGTVGVEAARVIA  
 KALEKKSELKRCHWSDMFTGRLRSEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVRGFEALLKSPA  
 CFTLQELKLNNCGMGIGGGKILAAALTECHRKSSAQGKPLALKVVFVAGRNRLENDGATALAEAFGIIGTL  
 EEVHMPQNGINHPPGVTALAQAFAINPLLRVINLNDNTFTEKGGVAMAETLKTLRQVEVINFGDCLVRSG  
 AVAIADAVRGGPKLKLNL SFCEIKRDAALVVAEAVADKAELEKLDLNGNALGEEGCEQLQEVMSDFNM  
 AKVLASLSDDEGEDEDEEEDEEEDDEEEDDDDEEEQEEEEPPQRGSGEEPATPSRKILDPN  
 SGEPAPVLSSTPTDLSTFLSFPSPKLLRLGPKVSVLIVQQTDTSDPEKVVSAFLKVASVFRDDASVKT  
 AVLDAIDALMKAFAFSCSSFNSTFLTRLLIHMGLLKSSEDKIKAIPSLHGPLMVLNHHVVRQDYFPKALAPL  
 LLAFVTKPNGALETCSFARHLLQTLYNI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

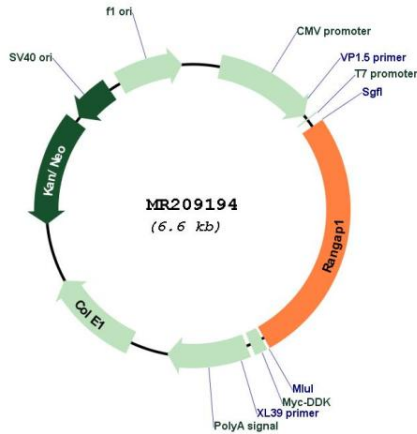


**Cytogenetics:** 15 38.21 cM

**MW:** 63.5 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR209194