

## Product datasheet for MR205668

### Rae1 (NM\_175112) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rae1 (NM_175112) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rae1
Synonyms:	323040112Rik; D2Ertd342e; MNRP; MNRP41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205668 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCTGTTTGGATCAACCTCTGGATTTGGGACTGGTGGGACCAGCATGTTTGGGAGCACAACCACAG  
ATAACCACAATCCAATGAAGGATATCGAAGTGACATCTTCTCCTGATGACAGCATCGTTGTCTGTCTTT  
CAGCCCAGCAACTTTACCAGGCAACTTCCTTATTGCAGGATCATGGGCGAATGATGTTTCGCTGCTGGGAA  
GTGCAGGACAGTGGGCAAACCATTCAAAGGCCAGCAGATGCACACGGGGCCAGTGCTTGACGTCTGCT  
GGAGTGATGATGGGAGCAAAGTATTCACAGCATCGTGTGACAAGACAGCCAAGATGTGGGACCTGAACAG  
CAACCAGGCCATTAGATAGCACAGCATGATGCTCCTGTTAAGACCATACATTGGATCAAAGCCCCAAAC  
TACAGCTGTGTGATGACCGGGAGCTGGGATAAGACTCTGAAGTTCTGGGATACGGGTCCTCAAATCCTA  
TGATGGTCTTGCAACTCCCTGAACGCTGTTACTGTGCAGATGTGATATACCCGATGGCTGTGGTAGCCAC  
TGCAGAGAGGGGCTGATTGTCTATCAGCTGGAGAACCAGCCCTCTGAGTTCAGGAGAATCGAGTCTCCC  
CTGAAGCACCAGCATCGGTGTGTGGCTATTTTTAAAGACAACAGAAAGCCGACTGGGTTTGTCTGG  
GCAGCATTGAGGGGAGAGTTGCCATTCCTACTACATCAACCTCAAATCCGGCCAAAGATAACTTCACCTT  
CAAATGCCATCGATCCAACGGTACCAACTTCGGCTCCTCAAGACATCTATGCAGTGAATGGGATTGCC  
TTCCATCTGTCCATGGTACCCTGGCACTGTGGGCTCCGATGGTAGGTTTCAGTCTTGGGACAAGATG  
CCAGGACCAAATAAGACTTCGGAACAGTTAGATCAGCCATCGCAGCTTGTGCTTCAATCACAATGG  
AAACATATTTGCCTATGCTTCCAGCTACGACTGGTCCAAGGGACATGAGTTTTATAATCCCCAAAAGAAA  
AATTACATTTTCTGCGTAATGCAGCTGAAGAGCTAAAGCCAAGGAATAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205668 protein sequence  
 Red=Cloning site Green=Tags(s)

MSLFGSTSGFGTGGTSMFGSTTTDNHNPMKDIEVTSSPDDSIGCLSFSPPTLPGNFLIAGSWANDVRCWE  
 VQDSGQTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAKMWDLNSNQAIQIAQHDAPVKTIHWIKAPN  
 YSCVMTGSWDKTLKFWDTRSSNPMMLVQLPERCYCADVIYPMAVVATAERGLIVYQLENQPSFRRRIESP  
 LKHQHRCVAIFKDKQNKPTGFALGSIEGRVAIHVINPPNPAKDNFTFKCHRNGTNTSAPQDIYAVNGIA  
 FHPVHGLATVGSDFGRFSFWDKARTKLTSEQLDQPIAACCFNHNGNIFAYASSYDWSKGHEFYNPQKK  
 NYIFLRNAAEELKPRNKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_175112

**ORF Size:** 1107 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).

**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\\_175112.5](#)

**RefSeq Size:** 1755 bp

**RefSeq ORF:** 1107 bp

**Locus ID:** 66679

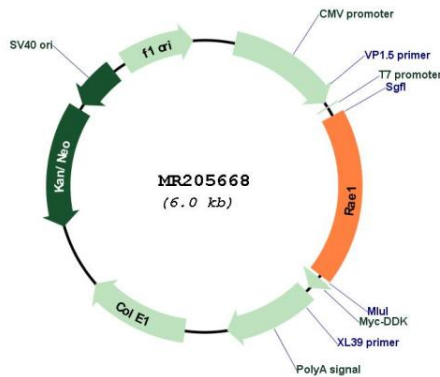
**UniProt ID:** [Q8C570](#)

**Cytogenetics:** 2 95.66 cM

**MW:** 41 kDa

**Gene Summary:** Plays a role in mitotic bipolar spindle formation. Binds mRNA. May function in nucleocytoplasmic transport and in directly or indirectly attaching cytoplasmic mRNPs to the cytoskeleton.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205668