

Product datasheet for **MG205668**

Rae1 (NM_175112) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rae1 (NM_175112) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rae1
Synonyms: 323040112Rik; D2Ertd342e; MNRP; MNRP41
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205668 representing NM_175112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTCTGTTGGATCAACCTCTGGATTTGGGACTGGTGGGACCAGCATGTTGGGAGCACAACCACAG
 ATAACCACAATCCAATGAAGGATATCGAAGTGACATCTTCTCCTGATGACAGCATCGTTGTCTGTCTTT
 CAGCCCGCAACTTTACCAGGCAACTTCTTATTGCAGGATCATGGGCGAATGATGTTGCTGCTGGGAA
 GTGCAGGACAGTGGGCAAACCATTCAAAGGCCAGCAGATGCACACGGGCCAGTGCTTGACGTCTGCT
 GGAGTGATGATGGGAGCAAAGTATTCACAGCATCGTGTGACAAGACAGCCAAGATGTGGGACCTGAACAG
 CAACCAGGCCATTAGATAGCACAGCATGATGCTCCTGTTAAGACCATACATTGGATCAAAGCCCCAAAC
 TACAGCTGTGTGATGACCGGGAGCTGGGATAAGACTCTGAAGTTCTGGGATACGGGTCCTCAAATCCTA
 TGATGGTCTTGCAACTCCCTGAACGCTGTTACTGTGCAGATGTGATATACCCGATGGCTGTGGTAGCCAC
 TGCAGAGAGGGGCTGATTGTCTATCAGCTGGAGAACCAGCCCTCTGAGTTCAGGAGAATCGAGTCTCCC
 CTGAAGCACCAGCATCGGTGTGTGGCTATTTTTAAAGACAACAGAAAGCCGACTGGGTTTGTCTGG
 GCAGCATTGAGGGGAGAGTTGCCATTCACTACATCAACCTCAAATCCGGCCAAAGATAACTTCACCTT
 CAAATGCCATCGATCCAACGGTACCAACACTTCGGCTCCTCAAGACATCTATGCAGTGAATGGGATTGCC
 TTCCATCTGTCCATGGTACCTTGGCACTGTGGGCTCCGATGGTAGGTTGAGTTCAGTCTGGGACAAGATG
 CCAGGACCAAATAAGACTTCGGAACAGTTAGATCAGCCATCGCAGCTTGTGCTTCAATCACAATGG
 AAACATATTTGCCTATGCTTCCAGCTACGACTGGTCCAAGGGACATGAGTTTTATAATCCCCAAAAGAAA
 AATTACATTTTCTGCGTAATGCAGCTGAAGAGCTAAAGCCAAGGAATAAGAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205668 representing NM_175112
 Red=Cloning site Green=Tags(s)

MSLFGSTSGFGTGGTSMFGSTTTDNHNPMKDIEVTSSPDDSIGCLSFSPPTLPGNFLIAGSWANDVRCWE
 VQDSGQTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAKMWDLNSNQAIQIAQHDAPVKTIHWIKAPN
 YSCVMTGSWDKTLKFWDTRSSNPMMLVQLPERCYADVIPMAVVATAERGLIVYQLENQPSFRRRIESP
 LKHQHRCVAIFKDKQNKPTGFALGSIEGRVAIHVINPPNPAKDNFTFKCHRNGTNTSAPQDIYAVNGIA
 FHPVHGTLATVGS DGRFSFWDKDARTKLTSEQLDQPIAACCFNHNGNIFAYASSYDWSKGHEFYNPQKK
 NYIFLRNAAEELKPRNKK

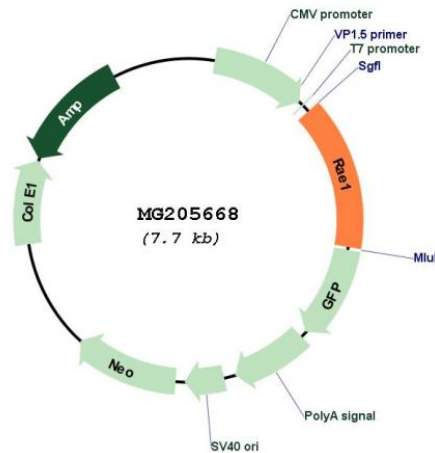
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175112

ORF Size:	1104 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:	<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:	NM_175112.5
RefSeq Size:	1716 bp
RefSeq ORF:	1107 bp
Locus ID:	66679
UniProt ID:	Q8C570
Cytogenetics:	2 95.66 cM
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]