

Product datasheet for **MG214551**

Rasgef1a (NM_027526) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Rasgef1a
Synonyms:	6330404M18Rik; A1835194
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >MG214551 representing NM_027526
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCCAGACATCTGTGGTCTTCTCCAGCATCCTTGGGCCAACTGTAAACAGACAGGTGCAGCCTGGCA
 TGGGGGAGAGAGGAGGTGGGGCCAGCAGCGGCTCCAAGGACCTCATTTTTCAAGATGGACGCCTCACTTC
 TGGATCCTTGGAGGCCCTTGATGGAGCATCTGGTTCCAACGGTGGACTATTATCCTGATCGGACATACATC
 TTCACGTTTCTCCTGAGTTCCTGGGTCTTTCATGCCCTCATGACCTTCTGGCTCGAGTAGGGCAGATCT
 GCCTGGAGCAGAGCAACAGCTAGAGGTGGGCTGAGAAGGCCAAGCTGAAGTCTTCTCGACCAAGAT
 TGTGCAGCTGTTGAAGGAGTGGACGGAGGCTTCCCTTATGACTTCCAGGACGAGAAGGTTCATGGCAGAG
 CTGAAGGCCATCGCACACCGCGTCACTCAGTGTGATGAGGAGAATGGCACAGTGAAGAAAGCCATTGCC
 AAATGATACAAAGCTTGTGCTGTCCCTGGCTGCCGAAGTCAGCTCCAAGAGCTTCGGGAGAAGCTCCG
 GTCACCCGTGTGGACAAAGGCCCTGTCTTAAGCCAAGCCACCAGCTGCCAGAAAGACATCCTGGGT
 GTGTGCAGCAGCCCTGGTGTGGCCAGCAGCTGACTCACATTGAACTGGAACGGGTCAACAGCATCC
 GCCCTGAGGACCTGATGCAGATCATCAGCCACATGGACTCTCTGGACAATCACAGGTGCCGTGGAGACAT
 GACTAAGACCTTCAGTTTAGAAGCGTATGACAACCTGGTTCAACTGCTTGAGCATGCTCGTGGCTACAGAG
 GTGTGCCGGTGGTAAAGAAGAAACACCGACCCGCATGCTGGAGTCTTTCATTGATGTGGCCGAGAGT
 GTTTCAACATCGGGAACCTCAACTCTATGATGGCCATCATATCTGGCATGAACCTCAGCCAGTGGCAGC
 GCTGAAGAAAACGTGGTCCAAAGTCAAGACAGCCAAGTTTGTGCTTGGAGCATCACATGGACCCCTCC
 AGCAACTTCTGCAACTACCGGACAGCCCTGCAGGGGGCAGACAGAGATCCAGACAGCCAAACAGCAGCC
 GTGAGAAGATTGTCATCCCGTGTCAACCTCTTCGTTAAGGACATCTACTTTCTACACAAAATCCACAC
 CAACCACCTACCCAATGGGCACATTAACCTCAAAAAATTTTGGGAAATTTCCAGACAGATCCACGAGTTC
 ATGACATGGACACAGGTAGAATGTCCCTTTGAGAAGGACAAGAAGATTCAGAGTTACGTGCTCACGGCGC
 CCATCTACAGCGAGGAAGCTCTCTTCATCGCTCCTTTGAAAGTGAAGGTCTGAAAATCACATGGAGAA
 GGACAGCTGGAAGGCACCTCAGGACCACTCTCTTAACAGAGCC

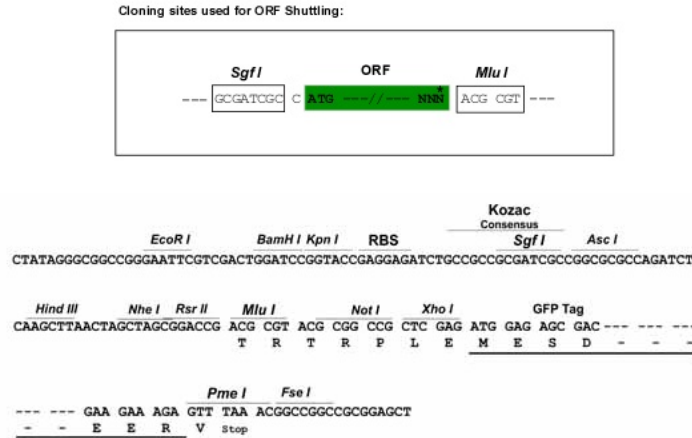
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214551 representing NM_027526
 Red=Cloning site Green=Tags(s)

MPQTSVVFSSILGPNCRVQVQPMGERGGGASSGSKDLIFQDGRLTSGSLEALMEHLVPTVDYYPDRTYI
 FTFLLSSRVFMPPHDLLARVGQICLEQRQLEAGPEKAKLKSFSKIVQLLKEWTEAFPYDFQDEKVMAE
 LKAIHRVTQCDEENGTVKKAIQMIQSLLLSLAARSQLELREKLRSPVVDKGPVLKAKPPAAQKDILG
 VCSDDLVLAAQLTHIELERVNSIRPEDLMQIISHMDSLNDHRCRGMKTFLEAYDNWFNCLSMLVATE
 VCRVVKKKHRTRMLEFFIDVARECFNIGFNSMMAIISGMNLSVVARLKKTWKVKAKFDVLEHHMDPS
 SNFCNYRTALQGATQRSQTANSSREKIVIPVFNLFVKDIYFLHKIHTNHLPNGHINFKFKWEISRQIHEF
 MTWTQVECPFEKDKKIQSYVLTAPIYSEELFIASFSEGPENHMEKDSWKALRTLLNRA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_027526

ORF Size: 1443 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:

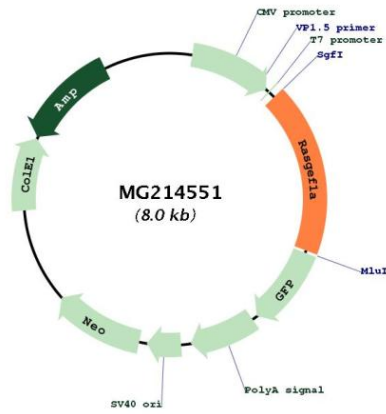
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027526.1](#), [NP_081802.1](#)

RefSeq Size: 3236 bp
 RefSeq ORF: 1470 bp
 Locus ID: 70727
 Cytogenetics: 6 F1

Product images:



Circular map for MG214551