

Product datasheet for **MG221287**

Rad51ap2 (NM_001111118) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Rad51ap2 (NM_001111118) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Rad51ap2 |
| Synonyms: | EG209550 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG221287 representing NM_001111118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTCTGTGCGCCCCGCGTGGCCTGCAGGGCCTGCCTGGCCTGTCTCCTCAGAACCCGCTCCTGAGG
 ACCCCGCTGCGGGCTCCCCAGCAGCAAGCGCGCGTCTGAAGGAGCCTGACGGCGGAGTCTCTGAGGC
 GGGATGGCCGCTGCTTGTGGTGCCTCGCTGTCTGAGGTAGAAAAAGTCTGGGAGTGGTCGCTCAGACCC
 TTCACAGCGTTCTCATTCCAAAGAGCCCGGGAGCTCAGCCGGTGGGAAGCAGTCGTGTGACCTGGGAT
 GTCGGGACAGAACATTCCAGGCGCACAGCTGTTGGCAGTCTGGAATCTTAGGTTGTTCTAGGGCTCCAAG
 AAGGTCTGTGAAGCAGGACTGCAGGACAGGGAGGTTCAAGGGTGCCTTGGTGACCAAGCAGAAGTG
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 GTGCCAAACCTAGCTATTTTAGAGATAGCAACAAAAAATTTCTTTGAGTTTCAAAGGGATTTAAATAG
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 CTACCAGACAAGAATTTCAAACCTGGACTGTGACAGATCTATTTTGAATAAAAAAGGAAAAATTTG
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 GACCATTCACTTTATTTTAAGTCGATATTTGAAGATGCTTTAATGTTAGACAACCTGTGCACATTTGTA
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 TGTTAAGTGAAACAGAAGGGAAAATATATGATTTTGTGTTGAAGAGAGAAATGAAGGTCACAAAAAGTTC
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 TATTGAAGGGAGGCAGTCATTTTCGCATGGGATTTCCAGAGTACAGCCTTTAAGACATGCAGTCGTCC
 AATTAGGTTGGCTGTCAAGAAGAGCTAGGCTGAAACAGCTTTCATCCTTACCTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221287 representing NM_001111118
 Red=Cloning site Green=Tags(s)

MSLSRPAWPAGPAWPVSSEPPPEDPAAASPSSKRRLKEPDGGVSEAGWPLLVPRLSEVEKVVWEWSLRP
 FTAFLIPKSPGSSAGGKQSCDLGCRDRTFQAHSCWQSGILGCSRAPRRSCEAGLQDREVQGVRLGDQAEV
 SHAPPNSPMPYVQGVKQPEPEELPEKETILKEKNSVREPGNPF LDVVPFSEETKSALHEIKDRCKVDSVITS
 EKKNVSSSTLKISKFQNAQACLESAPSYFRDSNTKNF FEPDRDLSNMSFVYVKETAKKKNDKIVAYVR
 DFTNIFSSQNRPNKQKLQDDKKNVYVENDFSDYSESYHQSLTIEGKIDLINLNYRHSIECDVRDSK
 KNFTLTLEVANCEGTERNQEYIIPTRQEFQNLDCDRSILKIKKENCWRIKKIRIICENNMIENNIIVSLH
 DNFDSEFIRKKEKKDDRESEEGCIFKYIVNLNLYLKNIKKERYIVYLTMLTSLRLLCENKSTAKKRKLF
 KTEHVLQRVKKQINSLTMTTKIFLIYKLCENVPPLMGFDNTEELSLTKESSYESTRCAKLLNMKNLDY
 YSFGIDGTHVESDPLFIQNNCGHINEKYEYESSMYNQDLDTVRKWKHKTIHFIFKSFIFEDVFNVRQLCTLL
 SQNTSHSDQINAMAITLKI SLENLLSETEGKIYDFVLKREMKVTKSSSFQAHNAIDTEKEEDSFPTMDG
 MSSVQSASLVSKINMEETKSLNQNNRSTKEDGGILQESELANSKHFPKNESALYANHQFESDSSGEN
 NECFQGLTATCLSTETLPIAEFEMKSKFDLVLEELRMFHEISKENEIPSTRMTNRRKENYFGESNDVKE
 ARMEIGKLEMVETNTRNAPFLSCDVKAGLNKHKRHQSLFNWKMLPTHGGQAVPNECWPRSEERSLHSTP
 EEDYKHLPKSPTFPSPDEYKNETLLKGGSHFSGISRQPLKTC SRPIRVGLSRRARLKLHPYLK

TRTRPLE - GFP Tag - V

Restriction Sites:

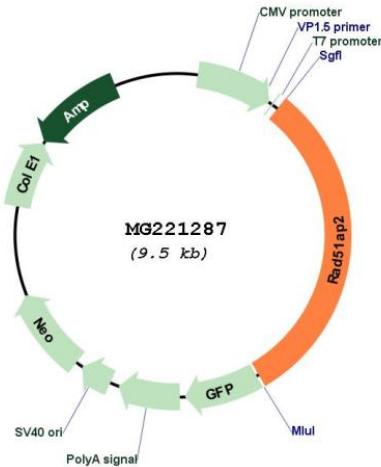
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001111118

ORF Size: 2928 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_001111118.2](#)

RefSeq Size: 3175 bp

RefSeq ORF: 2931 bp

Locus ID: 209550

Cytogenetics: 12 A1.1