

## Product datasheet for **MG210234**

### **Reps1 (BC087547) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Reps1 (BC087547) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Reps1                                   |
| Synonyms:                 | BB161292                                |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide  
Sequence:**

>MG210234 representing BC087547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTTTGTGGTGCAACAAGACTTGGTTATTTTGAAGAAGTCAGTTCTACATTGCTTTGAAGCTTG  
 TAGCTGTTGCCAGTCTGGTTTTCCATTAAAGAGTGGAAAGTATAAACACTGTAAAGGATCTCCCTCTCCC  
 ACGATTTGTGCTTCAAAGAATGAACAGGAATCTCGCCTTGACAGCCTCCTATTCTTCAGATTCTGAAAC  
 CAGGGCTCTTACTCGGGTGTGATCCCCCTCTCCCGGACAGGCCAAGTCAAGAAGGGGCTGGAAGCC  
 ATGACGCGGTTACGCTCGTCCGTCTGCAGAGCAGCAGGAACCTGTGTCTCCAGTAGTTTACCCACGCA  
 GTCCCCACCAACTTCTCCCCACACATGGAGGAAGCACAGCCGCCATCCAGTGGGGGAATAGTGAGAGA  
 CCTTTACAGGACCGGGCCATTCTGGTCTCTTTTGGTGATGCACAAGCAGGCTCCTCTGCTGGTGATG  
 CGGTGTGGTCTGGACAGTCCCCGCTCCACCTCAAGACAAGTGGGTGAGTTTGCAGATACTCCACCAAC  
 CAGTGCTCTTTTAACCATGCATCTGCTTCTGTCCAGGACCAGACGACAGTACGGACTGTAGCCTCAGCA  
 GCAACTGCCAATGAGATCCGTAGGCAATCCAGTAGTTATGAGGATCCCTGGAAGATAACAGATGAGCAGA  
 GACAGTATTATGTAATCAGTTTAAAGACCATTCAGCCTGACCTAAACGGATTTATCCCAGGATCTGCAGC  
 TAAAGAGTTTTTTACAAATCAAACTTCTCTATTCTTGAAGTTTCTCATATCTGGGAAGTCTCAGACTTT  
 GATAAAGATGGCGCATTGACACTGGATGAGTTTTGTGCTGCTTTTCATCTGGTAGTTGCTAGAAAAATG  
 GCTATGACCTACCAGAGAACTCCCTGAAAGCCTGATGCCAAGCTGATAGACTTGAAGATTCCGCAGA  
 TGTGGGGGAGCAGCCAGGTGAGGTAGGTTACTCAGGCTCTCTGCAGAAGCACCTCAAGCAAGTCACCG  
 TCGATGCCGTCCCTGAACCAGACATGGCCAGAGCTGAATCAGAGCAGTGAGGATACCGCTATTGTGCATC  
 CAGTCCCCATCCGCATGACTCCAAGCAAAATCCACATGCAGGAAATGGAGCTGAAGAGAACAAGCAGCGA  
 TCACACTAATCCCACGAGCCGTTGCTTGTGAAACCATCTGACCTTTCAGAAGAAAATAAAATCAATTCA  
 TCAGTAAATTTCTTCTGGAAATACCGTAGATGGGTACAGTAGCTCAGACTCTTCCCCCTCTGACCCGG  
 AGCAGATTGGGAGCAGTGAACCTCGTCAAAGGTCTCATTAGGAACGTCACCTGATAACACTGCGCCACC  
 ACCTCCCCCTCCAGGCCACAGCCTTCTCATTCTAGATCATCATCTTTAGATATGAATCGGACCTTTGCA  
 GTTACCACAGGACAACAACAGGCTGGAGTTGTTGCCATCCTCTGCAGTGCCTCAAGACCTCAGCCCT  
 CACAGGCACCCGGTCTTCTGTCCATCGCCAGTGGATGCAGATGGTCTAATAACTCACACTAGTACCTC  
 ACCTCAGCAGATACCAGAACAACCAATTTTGCAGATTTAGCCAATTTGAAGTATTTGCTGCATCAAT  
 GTCTCCGAAGAACAAGACAGTGAAGCTGAGAAACATCCTGAGGTCTTGCCAGCTGAGAAAGCTTCTGACC  
 CCTCAAGCTCTCTTCGGGCTGCCAAGCGGACAGTAAAGCTGAAGAAAAGACAGCTACTAATGTTCTGTC  
 CAATGTGAGCAAAGGCACAACACCTCTGGCTCCACCACCAAAACCTGTTAGAAGAAGATTAAGTCAGAA  
 GATGAGTTACGGCCAGATGTGGATGAGCATACGCAGAAGACAGGCGTCTAGCTGCTGTTCTAACATCAC  
 AGCCTTCTATTCCAGATCTGTGGGAAAGATAAAAAGGCTATCCAGGCATCCATTAGACGAAATAAGGA  
 AACCAACACGGTCTGGCCAGGCTGAACAGTGAATTGCAACAGCAATTAAGGATGTTCTGGAGGAGAGA  
 ATCTCCCTGGAAGTTCACTAGAGCAGTCCGACCGTTTTCTCACCTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210234 representing BC087547  
 Red=Cloning site Green=Tags(s)

```
MELCGATRLGYFGRSQFYIALKLVAQAQSGFPLRVESINTVKDLPLPRFVASKNEQESRLAASYSSDSEN
QGSYSGVIPPGRGQVKKGPGSHDAVQPRPSAEQQEPVSPVSPQQSPPTSPHTWRKHSRHPSSGNSER
PLTGPFPWFSPFGDAQAGSSAGDAVWSGQSPPPQDNWVSFADTPPTSALLTMHPASVQDQTTVRTVASA
ATANEIRQSSSYEDPWKITDEQRQYYVNQFKTIQPDNLNGFIPGSAAKEFFTKSKLPIELSHIWELSDF
DKDGALTLDDEFCAAFHLVVARKNGYDLPEKLPESLMPKLIIDLEDSADVGEQPGEVGYSGSPAEAPPSKSP
SMPSLNQTWPELNQSSSDTAIVHPVPIRMTPSKIHMQEMELKRTSSDHTNPTSPLLVKPSDLSEENKINS
SVKFPSGNTVDGYSSSDSFPSDEQIGSSVTRQSRHSGTSPDNTAPPPPPRPQPSHSRSSSLDMNRTFA
VTTGQQQAGVVAHPPAVPPRPQPSQAPGPSVHRPVDADGLIHTSTSPQQIPEQPNFADFQFEVFAASN
VSEEQDSEAEKHPEVLPAAKASDPSSSLRAAQADSKAEKATNPVANSKGTTPAPPKPVRRRLKSE
DELRPDVDEHTQKTGVLAAVLTSQPSIPRSVGKDKKAIQASIRRNKETNTVLARLNSELQQQLKDVLEER
ISLEVQLEQLRPFSLH
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC087547

**ORF Size:** 2148 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:** [BC087547.1](#)

**RefSeq Size:** 2505 bp

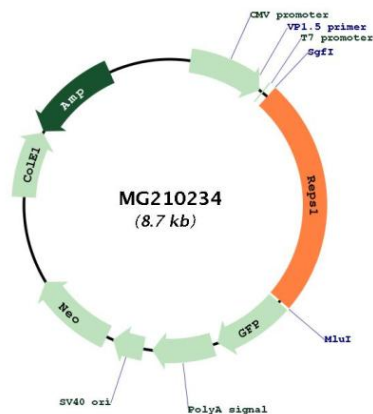
**RefSeq ORF:** 2150 bp

**Locus ID:** 19707

**Cytogenetics:** 10 A3

**Gene Summary:** May coordinate the cellular actions of activated EGF receptors and Ral-GTPases.  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG210234