

Product datasheet for **MG201847**

Rac2 (BC005455) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rac2 (BC005455) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rac2
Synonyms:	A1323801; A1452260
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG201847 representing BC005455 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGCCATCAAGTGTGTGGTGGGTGATGGAGCCGTGGGCAAGACGTGTCTTCTCATCAGCTACA
CCACCAACGCCTCCCTGGAGAATACATCCCCACTGTATTTGACAACACTCAGCCAATGTGATGGTGA
CAGTAAGCCGGTGAACCTGGGCTGTGGATACCGCAGGTGAGGAGACTATGACCGCTCCGGCCACTC
TCCTACCCACAGACAGATGTATTTCTCATCTGCTTCTCGTAGTCAGCCAGCCTCTATGAGAATGTCC
GTCCAAGTGGTCCCTGAGGTACGGCACCACTGCCCCAGCACCCCATCATCCTGGTGGGTACCAAGCT
GGACCTTCGCGATGACAAGGACACCATCGAGAAGCTGAAGGAGAAGAAGCTGGCTCCCATCACCTACCCG
CAGGGCCTGGCAAGGATATTGATTCAAGTACTTGGAATGTTCTGCACTACCCAGCGAG
GCCTGAAGACCGTCTTCGATGAGGCAATCCGCGCAGTCTCTGCCACAGCCACACGACAGCAGAAGCG
CCCCTGCAGCCTGCTC

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>MG201847 representing BC005455 Red=Cloning site Green=Tags(s)
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MQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDSKPVNGLWDTAGQEDYDRLRPL
SYPQTDVFLICFSLVSPASYENVRKWFPEVRHHCPTPIILVGTKLDRDDKDTIEKLKEKLPITYP
QGLALAKDIDSVKYLECSALTQRGLKTVFDEAIRAVLCPQPTRQQKRPCSL

TRTRPLE - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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Cloning Scheme:


ACCN: BC005455

ORF Size: 576 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: [BC005455](#), [AAH05455](#)

RefSeq Size: 1375 bp

RefSeq ORF: 578 bp

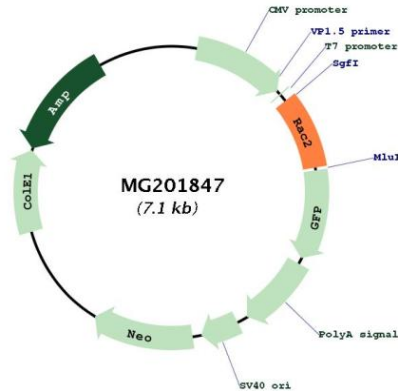
Locus ID: 19354

Cytogenetics: 15 E1

Gene Summary:

Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytose of apoptotic cells and epithelial cell polarization. Augments the production of reactive oxygen species (ROS) by NADPH oxidase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201847