

Product datasheet for **MG202873**

Rage (BC087925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rage (BC087925) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rage
Synonyms:	MGC46883, MOK, RAGE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202873 representing BC087925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGGAGAAGACCCATTATCAGAGAAAAAGATTATGCTCTACATGTATCAGCTGTGCAAATCGC
TGGACCACATGCACAGAAACGGGATCTTTCACAGAGACGTGAAGCCGGAGAATATCCTAGTAAAGCAGGA
TGTCTGAACTAGGGGACTTCGGGTATGCCGGAGTGTCTATTCCAAGCAGCCCTACACAGAGTACATC
TCTACCCGGTGGTACCGGGCCCCAGAGTGTCTCCTCACCGACGGGTTCTACACATAACAAGATGGACCTGT
GGAGCGCTGGCTGCGTGTCTACGAGATTGCCAGGGCAGCTGAGACACAGACCCTGGCCAAACACAGAAG
AGCTTTCTGTCCCAAGTTCTCCATGGTGCCAGAATCATCCAGTCACAACCTGGTCATTCTCACAGGAAGGC
AGAAAGCAGAAACAGTCCCTGCGGCACGAGGAGGGCCATGCCAGACGACAGGGGCCGACCAGCTTGATGG
AGCTTCCCAAACCTGAGGCTGTCGGGAATGACCAAACCTGTCATCATGTTCCAGCCCTGCACTGCGGTGAGT
GCTGGGCACTGGAGCAAATGGAAAAGTCCCTGTGCTGAGACCCCTGAAGTGTGCTGTGTGAACAAGAAG
ACAGACACGCAGAAGGACATCAAACCTCACCTGAAACACTATCACCTGCCACGATCAACAGGAAAGGGG
CGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202873 representing BC087925
 Red=Cloning site Green=Tags(s)

MKRRRHPLSEKKIMLYMYQLCKSLDHMRNGIFHRDVKPENILVKQDVLKLGDFGSCRSVYSKQPYTEYI
 STRWYRAPECLLTDGFYTYKMDLWSAGCVFYEIARAATQTLAKHRRAFCPKFSMPVPESSSHNWSFSQEG
 RKQKQSLRHEEGHARRQGPTSLMELPKLRLSGMTKLSSCSPALRSVLGTGANGKVPVLRPLKCAAVNKK
 TDTQKDIKPHLKHYHLPTINRKGGEY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC087925

ORF Size: 708 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: [BC087925.1](#)

RefSeq Size: 1161 bp

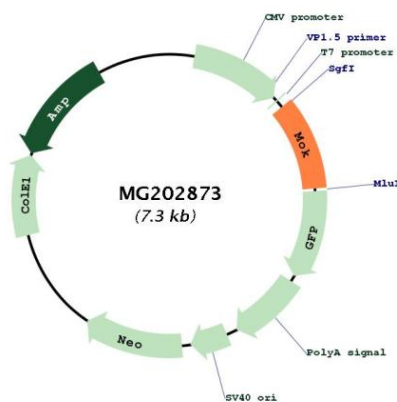
RefSeq ORF: 710 bp

Locus ID: 26448

Cytogenetics: 12 F1

Gene Summary: Able to phosphorylate several exogenous substrates and to undergo autophosphorylation (PubMed:10421840). Negatively regulates cilium length in a cAMP and mTORC1 signaling-dependent manner (PubMed:25243405).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202873