

Product datasheet for **MG217615**

Brap (NM_028227) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brap (NM_028227) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Brap
Synonyms:	3010002G07Rik; BRAP2; IMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217615 representing NM_028227
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGTGCTACTGGTGGTCATCCGACTGGAGCTCGCGGTCACTCGCCGGTCCCACCGACTTCGGCT
 TCAGCGCCCGCTGGAGAGATGTCTGATGAGGAGATCAAAAAGAAGACATTGGCTTCCGCTGTCGCCTG
 TCTAGAAGGGAAGTCAGCCGGGAGAAAGCAGCCATCATCCACCAGCACCTTGGCCGTGGGAAATGACG
 GATGTGATTATTGAGACCATGAAGGCCAGAGCAGATGAAGTGAGAGACACAGTGAAGAAAAAGAAGCCTT
 CAGCAGCCCTGTCTCTGCACAGAGAAGTAGAGAACAGAGTGAAGTGTGAACACAGCCCCAGAGTCTCC
 ATCCAAACAGCTCCCAGACCAGATTTCTTCTTTCAGTGGCAACCCTTCTGTTGAAATAGTCCACGGCATT
 ATGCACCTGTACAAGACAAATAAGATGACCTCCCTAAAAGAAGACGTTCCGGCAGTGCATGCTGTGTG
 TCCTCACCGTCCCTGCCACCATGACCAGTCATGACCTTATGAAGTTTGTGCCCATCAATGATGTAAT
 TGAACAAATGAAATCATCAGGGACTCTACTCCGAATCAGTACATGGTACTGATCAAGTTCAGTGGCAG
 GCTGATGCAGACAGTTTCTACATGGCGTCAATGGCCGCAAGTCAACTCAATCGAAGATGACGTCGTC
 AGCTGGTCTATGTGAAAAGGGCTGAAGTCTGAAATCTGAAGATGGCGCCAGCCTCCCCGTGATGGACCT
 GACGGAGCTGCCAAGTGCACTGTGTGTCTGGAGCGGATGGACGAGTCTGTGAATGGCATCCTCACCACC
 CTCTGCAACCACAGCTTCCATAGTCAGTGTCTGCAGCGGTGGGATGACACCACGTGTCCTGTGTGCCGAT
 ACTGTCAAACGCCAGAGCCAGTGGAAAGAAAACAAATGTTTTGAGTGTGGTGTCCAGGAAAACCTCTGGAT
 TTGTTTAAATAGCGGCCACATAGGCTGTGGCGGTACGTGAGTGGCATGCTTACAAGCACTTTGAGGAG
 ACCCAGCACACATACGCCATGCAGCTCACCAACCATCGAGTCTGGGACTATGCTGGAGATAATTATGTCC
 ATCGACTGGTTGCAAGCAAGACGGATGGAAAGATCGTTTCAGTACGAGTGTGAGGGCAGACCTGCCAGGA
 AGAGAAGATAGATGCCTTACAGTTAGAGTACTCGTACCTGTTGACAAGCCAGCTGGAATCGCAGCGGATA
 TACTGGGAGAACAAAATCGTGCGCATAGAGAAGGACACGGCAGAGGAGATTAACAACATGAAGACCAAGT
 TTAAGAGACCATCGAGAAGTGTGACAGCCTGGAGCTCAGGCTCAGTACCTCCTGAAGGAGAAGCAGTC
 TGTGAAAAGGAAGTGTACCCAGCTGAACACCAGAGTGGCCAAGCTCAGCACGGAGCTGCAGGAGGAGCAG
 GAGCTGAACAAGTGTCTGCGGCCAACCCAGCTGGTGTGTCAGAACAGCTCAAGGAGGAGGAGAAGTGC
 TGAAGGAGACCTGTGCCAGAAAGACCTGCAGATCACCGAGATCCAGGAGCAGCTGCGCGATGTCATGTT
 CTACCTGGAGACACAGCAGCAGATCAGCCACCTGCCTGCGGAGACGAGGCAGGAGATCCAGGAAGGCCAG
 ATCAACATCGCCATGGCCTCAGCGCCCAACCCACCTCTCCGGGGCCGGTGGGAAGCTGCAGTCCAGAA
 AGGGCCGAGCAAGAGGGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217615 representing NM_028227
 Red=Cloning site Green=Tags(s)

MSVSLVVIRLELAGHSPVPTDFGFSAAAGEMSDEEIKKKTLASAVACLEGKSAGEKAIIHQHLGRREMT
 DVIIEETMKARADEVRDVEEKKPSAAPVSAQRSREQSESVNTAPESPSKQLPDQISFFSGNPSVEIVHGI
 MHLKTKNMTSLKEDVRRSAMLVLTVPATMTSHDLMKVFVAPFNDVIEQMKIIRDSTPNQYMLIKFSAQ
 ADADSFYMACNGRQFNSIEDDVCQLVYVERAEVLKSEGDGASLPVMDL TELPKCTVCLERMDES VNGILTT
 LCNHSHSQCLQRWDDTTCPVCRYCQTPPEVVENKCFECGVQENLWICL ICGHIGCRYVSRHAYKHFE
 TQHTYAMQLTNRVWDYAGDNYVHRLVASKTDGKIVQYCEGDTQEEKIDALQLEYSYLLTSQLESQRI
 YWENKIVRIEKDTAEEINNMTKFKETIEKCDLRLSDLLKEKQSVKCTQLNTRVAKLSTELQEEQ
 ELNKCLRANQLVLQNLKEEELKTKETCAQKDLQITEIQEQLRDMFYLETQQQISHLPAETRQEIQEQ
 INIAMASAPNPPSSGAGGKLSRKRGRK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_028227

ORF Size: 1773 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_028227.3](#), [NP_082503.2](#)

RefSeq Size: 3727 bp

RefSeq ORF: 1776 bp

Locus ID: 72399

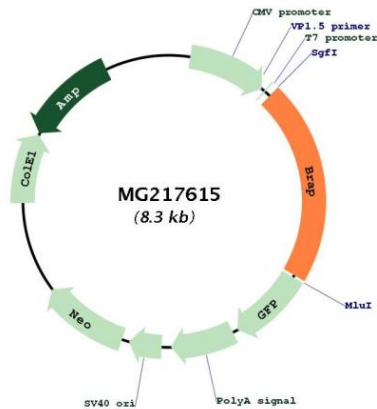
UniProt ID: [Q99MP8](#)

Cytogenetics: 5 F

Gene Summary:

Negatively regulates MAP kinase activation by limiting the formation of Raf/MEK complexes probably by inactivation of the KSR1 scaffold protein. Also acts as a Ras responsive E3 ubiquitin ligase that, on activation of Ras, is modified by auto-polyubiquitination resulting in the release of inhibition of Raf/MEK complex formation. May also act as a cytoplasmic retention protein with a role in regulating nuclear transport (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217615