

## Product datasheet for **MR217615**

### Brap (NM\_028227) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Brap (NM_028227) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Brap
Synonyms:	3010002G07Rik; BRAP2; IMP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR217615 representing NM\_028227  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGTGCTACTGGTGGTCATCCGACTGGAGCTCGCGGTCACTCGCCGGTCCCACCGACTTCGGCT  
 TCAGCGCCGCGCTGGAGAGATGTCTGATGAGGAGATCAAAAAGAAGACATTGGCTTCCGCTGTCGCCTG  
 TCTAGAAGGGAAGTCAGCCGGGAGAAAGCAGCCATCATCCACCAGCACCTTGGCCGTCGGGAAATGACG  
 GATGTGATTATTGAGACCATGAAGGCCAGAGCAGATGAAGTGAGAGACACAGTGAAGAAAAAGAAGCCTT  
 CAGCAGCCCTGTCTCTGCACAGAGAAGTAGAGAACAGAGTGAAGTCTGTGAACACAGCCCCAGAGTCTCC  
 ATCCAAACAGCTCCCAGACCAGATTTCTTCTTTCAGTGGCAACCCTTCTGTTGAAATAGTCCACGGCATT  
 ATGCACCTGTACAAGACAAATAAGATGACCTCCCTAAAAGAAGACGTTCCGGCAGTCCCATGCTGTGTG  
 TCCTCACCGTCCCTGCCACCATGACCAGTCATGACCTTATGAAGTTTGTGCCCCATTCAATGATGTAAT  
 TGAACAAATGAAATCATCAGGGACTCTACTCCGAATCAGTACATGGTACTGATCAAGTTCAGTGGCAG  
 GCTGATGCAGACAGTTTCTACATGGCGTCAATGGCCGCAAGTCAACTCAATCGAAGATGACGTCCTGCC  
 AGCTGGTCTATGTGAAAAGGGCTGAAGTCTGAAATCTGAAGATGGCGCCAGCCTCCCCGTGATGGACCT  
 GACGGAGCTGCCAAGTGCACTGTGTGTCTGGAGCGGATGGACGAGTCTGTGAATGGCATCTCACCACC  
 CTCTGCAACCACAGCTTCCATAGTCAGTGTCTGCAGCGGTGGGATGACACCACGTGCTCTGTGTGCCGAT  
 ACTGTCAAACGCCAGAGCCAGTGGAAAGAAAAACAAATGTTTTGAGTGTGGTGTCCAGGAAAACCTCTGGAT  
 TTGTTTAAATAGCGGCCACATAGGCTGTGGCGGTACGTGAGTGGCATGCTTACAAGCACTTTGAGGAG  
 ACCCAGCACACATACGCCATGCAGCTCACCAACCATCGAGTCTGGGACTATGCTGGAGATAATTATGTCC  
 ATCGACTGGTTGCAAGCAAGACGGATGGAAAGATCGTTTCAGTACGAGTGTGAGGGCGACACTGCCAGGA  
 AGAGAAGATAGATGCCTTACAGTTAGAGTACTCGTACCTGTTGACAAGCCAGCTGGAATCCGACGGGATA  
 TACTGGGAGAACAAAATCGTGCGCATAGAGAAGGACACGGCAGAGGAGATTAACAACATGAAGACCAAGT  
 TAAAGAGACCATCGAGAAGTGTGACAGCTGGAGCTCAGGCTCAGTACCTCCTGAAGGAGAAGCAGTC  
 TGTGAAAAGGAAGTGTACCCAGCTGAACACCAGAGTGGCCAAGCTCAGCACGGAGCTGCAGGAGGAGCAG  
 GAGCTGAACAAGTGTCTGCGCGCAACCAGCTGGTGTGTCAGAACCAGCTCAAGGAGGAGGAGAAGTGTG  
 TGAAGGAGACCTGTGCCAGAAAGACCTGCAGATCACCGAGATCCAGGAGCAGCTGCGCGATGTCATGTT  
 CTACCTGGAGACACAGCAGCAGATCAGCCACCTGCCTGCGGAGACGAGGCAGGAGATCCAGGAAGGCCAG  
 ATCAACATCGCCATGGCCTCAGCGCCCAACCCACCTCTCCGGGGCCGGTGGAAAGCTGCAGTCCAGAA  
 AGGGCCGACGAAGAGGGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217615 representing NM\_028227  
 Red=Cloning site Green=Tags(s)

MSVSLVIRLELAGHSPVPTDFGFSAAAGEMSDEEIKKTLASAVACLEGKSAGEKAAIIHQHLGRREMT  
 DVIIETMKARADEVRDVEEKKPSAAPVSAQRSREQSESVNTAPESPSKQLPDQISFFSGNPSVEIVHGI  
 MHLTKTKMTSLKEDVRRSAMLVLTVPATMTSHDLMKFVAPFNDVIEQMKIIRDSTPNQYMLIKFSAQ  
 ADADSFYMACNGRQFNSEDDVQCQLVYVERAEVLKSEDGASLPVMDLTELKCTVCLERMDESNGILTT  
 LCNHSFHSQCLQRWDDTTPVCRYCQTPPEVPEENKCFECGVQENLWICLICGHIGCGRYVSRHAYKHFE  
 TQHTYAMQLTNHRVWDYAGDNYVHRLVASKTDGKIVQYCEGDTTCQEEKIDALQLEYSYLLTSQLESQRI  
 YWENKIVRIEKDTAEEINNMTKFKETIEKDSLELRSDLLKEKQSVKCTQLNTRVAKLSTELQEEQ  
 ELNKCLRANQLVLQNQLKEEKLKTKCAQKDLQITEIQEQLRDMVFMYLETQQQISHLPAETRQEQIEQEQ  
 INIAMASAPNPPSSGAGGKQLSRKGRSKRGK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028227.3</a> , <a href="#">NP_082503.2</a>
<b>RefSeq Size:</b>	3727 bp
<b>RefSeq ORF:</b>	1776 bp
<b>Locus ID:</b>	72399
<b>UniProt ID:</b>	<a href="#">Q99MP8</a>
<b>Cytogenetics:</b>	5 F
<b>MW:</b>	67.4 kDa
<b>Gene Summary:</b>	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]