

## Product datasheet for MR205955

### Adap2 (NM\_172133) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adap2 (NM_172133) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adap2
Synonyms:	Centa2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205955 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGACCGCGAGCGCAACAAGAAGCGGCTGCTGGAGCTGCTGCAGGCTGCGGGCACC GGCAACGGGC  
ACTGCGCCGACTGCGGGGAGCGGATCCTGATTGGCCTCTTACAAGCTGGGGATTTTCATCTGTCTCCA  
CTGCTCTGGCGTCCACCGCAACTCCCAGACATCAGCAAAGTTAAATCCGTGAGACTGGACTTCTGGGAC  
GACAGTATGGTGGAGTTCATGACTCACCATGGGAACCTCAACGTGAAAGCCAAGTTGAAGCAAGAGTCC  
CAGCTTTCTACTATGTCCCTCAGGCCAACGACTGCCTGGTCTTAAAGGAACAATGGATTCGAGCTAAGTA  
TGAAAGACAGGAGTTTACGGCTATTGACAAAGCTGTCTCACATCCAGGTAACCGAGAAGGGTTCTGTGG  
AAGCGAGGACGGGACAACGCACAGTTCTGAGAAGCGGTTTGTCTTCTGTCGAGGGAAGGCCTCTCTGA  
AGTACTACACCAAGGAGGAGGGTAAAGCCCAAAGGCTGTATCAGCATCAAGGACTTAAACGCCACCTT  
CCAGACAGAGAAGATAGGACATCCCCACGGGCTGCAGATCACCTACAGGAAAGAGGGCCACACCAGGAAC  
CTGTTTGTTCATGACAGTGGGAAGGAGATAGTGGATTGGTTCAATGTCTCCGTGCAGCCCGCTGC  
AATACCTGAAATTGGCCTTCTGATCTCCAGAGTCTGAGCTCGTGCCTCTCATACCAGGAACACTCT  
CAAACAAGGCTTCATGGAGAAGACTGGTCAAAGCATAGAGAACCCTTCAAGAAAAGATGGTTTGCCTTG  
GATCCGCAGGAACGGAGGCTGCTCTATTATAAGAACCCCTGGATGCTTTTGAGCTGGCCAGGTTTTTC  
TGGGAAGCAATGAGCAGGATATGAAGTATGGGAAGATCTGCCCAAGGGCATCCGAGGGAACCGCTGGAA  
GGCTGGACTTACCGTCATCACTCCGGAGCGAAATTCATCTTACCTGCCCACTGAAAAGGAACAGCGA  
GAATGGCTAGAGAGTCTGCGGGCGTCTTGTCCAGTCCCTGTACCCCTCCACCTCCTACCACATCAG  
CAGAGACTGGCTGTGGCCTGGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205955 protein sequence  
 Red=Cloning site Green=Tags(s)

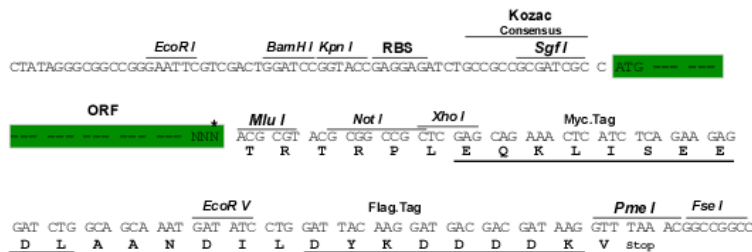
MGDRERNKKRLELLQAAGTGNGHCADCGAADPDWASYKLGIFICLHCSGVHRNFPDISKVKSVRLDFWD  
 DSMVEFMTHHGNLNVKAKFEARVPAFYYPQANDCLVLKEQWIRAKYERQEFTAIDKAVSHPGNREGFLW  
 KRGRDNAQFLRRRFVLLSREGLLKYYTKEEGKAPKAVISIKDLNATFQTEKIGHPHGLQITYRKEGHTRN  
 LFVYHDSGKEIVDFNALRAARLQYLKLAFFDLPESELVPLITRNYLKQGFMEKTGPKHREPFKKRWFAL  
 DPQERRLLYYKNPLDAFELGQVFLGSNEQGYEVWEDLPKGI RGNRWKAGLTVITPERKFI F T C P T E K E Q R  
 EWLESLRGLVSSPLSPLHLLTTS A E T G C G L G

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_172133

**ORF Size:** 1146 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\\_172133.1](#), [NP\\_742145.1](#)

**RefSeq Size:** 1611 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 216991

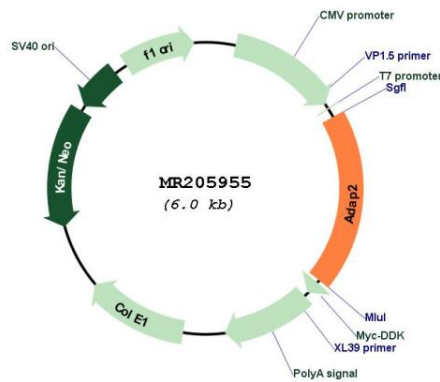
**UniProt ID:** [Q8R2V5](#)

**Cytogenetics:** 11 47.56 cM

**MW:** 44 kDa

**Gene Summary:** GTPase-activating protein for the ADP ribosylation factor family (Potential). Binds phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and inositol 1,3,4,5-tetrakisphosphate (InsP4). Possesses a stoichiometry of two binding sites for InsP4 with identical affinity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205955