

## Product datasheet for **MR227027**

### Caps2 (NM\_178278) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caps2 (NM_178278) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caps2
Synonyms:	D630005B03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227027 representing NM\_178278  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATTTAGAGGTTAAAAGGAGTGGCTGCCTCAAGAAGCCAGACTCGGCTATTTTCTGGAAGAAAGAATT  
 CACTGCAACAAGGATGGACTTCTAGATCATGGACAAACAAAATTCCTGCCTACCTATGGTCCCACCACT  
 TGATCTGGGAAGCCTTGTGACTCTGATGAGGAGGATAATTTTTACAAAACAGCAGCTGGTACAGTCCAT  
 GTTCATCTTAACCCACCGCGGTACAGAGCCTGCTCTGGGCTGGGTTCTGCCATGTCAAAGACCTAACAGTC  
 AGCATCGACTACAGGAAGTGAACAGGACGTAATACCTGAGGATTTGCCAGCGCCAACAGGCAAATACAG  
 GCTAAAGTACCAGCAGTACGCAAGTGAATGAAAGACGGCTACAAGCAGTATATTCAGAGGAGTACAGAG  
 AAGCCAAAGGCAGCCAGCAGGCCAGAGGCAACCGAGAAGGTGGAAGGAGCCAGTCTGGATGACCTCATGA  
 CTTTGGATAGGAAGGCCCTTTACAGCAAGGTTACGCAGATAGCCCTTACGGTAGACAGAGCATCAGAG  
 GAAATCAGATGTGGAGACTGTGGCTATAGAGAAGAAGAAACAGACCGTTGCAGAGCAGATGATGATGGAC  
 CACTTATCCAGGGCTGTCATCAGCGACCCAGAACAAGATTTAAACACCAAGAACCAAGAGAGTTCTCGTG  
 TCCTCCAGACTCAGAGAGGGCGCCACTTCGCGTCAAGGAGACGAACTCTGCATGAAACGAAGATAAGAAC  
 CAACTCTGCATTAACAGAGAATGACCTTCTCAGAAAAGTGAATTTGACGGGAGGGTCTTATCAAGAAAT  
 GGACGCGATGCCTGCCGGGAACCTAATGGGTTTTCTTTGCCACGACCACTCCCTAACTGTGTATGAAT  
 ATCGGATGTTCCGGAAAAACAGAACAAGTGTGCTTCTTTTATTAAGAAAGACATTTATCATCATCAGTG  
 TGGACGAAGAAAGGAAAGCAATATGAGCTTGGTACGCTCTATACTGGTGCAACTTTGACATTTTGGAGC  
 TGTGATCAACCTAGCCTTCCAAAGACCAATAAAGAAAAATGCATTGCTTAGACTTCGAATTACAAATATTG  
 ATCAAGTAGCTTTGAATTCCTGAAAGCTGCCTCTCGGAACATGGGGAAGAAGAGCCAGTCCGCGGA  
 GGCTCATGATCAGTTGGTGTACAGGCCATTGAGGATAAATTGAAAGAACAACCTGCACAAGAAGGGTGTCT  
 CGTATTTTACTGGATTGGGAAGATACTTCCAAGGTTTGGACAAGGAAGGAATGGGCTTTTAGAAAAGG  
 CAGATTTTACGAAGCTCTGAAAACCTTCACTTGAAGTGTCTGAACAGGACTTTGAGTCTTTCTGGCT  
 AATTCTGCAAGGATATGGCCATAGCAAGAACAAGGTTGACTATGGAGAATTCAAACGTGCCATTTTGGT  
 GAAATGAATGAATATAGGAAGTCATTTGTTGCAAGGCCCTTATGCAACTGGATTTTAAACAAACCGGCA  
 TTGTGTCTGTAATAGACATAAGAAAGTGTACTGCGCCAAGAAGCATCCACGTGTATCTCAGGGCATT  
 AACAGAGGAGGAAATCAAATCATCTTCTAGAGACGTTAAAAGGCACCTGCAGCAAGTGCATGAAGTT  
 TCATACGGAGAATTCGAAGATTACTATGAAGGCCCTAAGTATAGGGGTAGCAGGCGATGAAGACTTTGTCA  
 ACATCTTACGTATTCCGTGGAGAATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227027 representing NM\_178278  
 Red=Cloning site Green=Tags(s)

MDLEVKGVAASRSQTRLFSGRKNSLQQGWTSSRWTNQNLSCLPMVPLDLGSLVDSDEEDNFSQTARGTVH  
 VHLNPPRSEPALGWLPCQRPNSQHRLQEVEQDVIPEDLPAPTGKYRLKYQYASEMKDGYKQYIQRSTE  
 KPKAASRPEATEKVEGASLDDLMTLDRKALLQQGYADSPYGRQSI TRKSDVETVAIEKKKQTVAEQMMMD  
 HLSRAVSDPEQDLNKNQESSRVPPDSERAPLRVRRRTLHETKIRTNSALTENDLSQKVEFDGRVLSRN  
 GRDACRELIGFFFAHDQSLTVYFYRMFGKNRTSVLPFIKKDIYHHQCGRKRGKQYELGDVYTGATLTFLS  
 CDQPSLPKTIKENALLRLRITNIDQVALNSLKAASAHEGEEEA VSP EAHQQLVLQAIQDKLKEQLHKKGA  
 RILTGLGRYFQGLDKEGNLLEKADFQQALKTFHLEVSEQDFESFWLILQGYGHSKNKVDYGEFKRAIFG  
 EMNEYRKSFVRKAFMQLDFNKTGIVSVDIRKCYCAKKHPRVISGHSTEEIEKSSFLETLLKGTCSKDE  
 SYGEFEDYEEGLSIGVAGDEDFVNILRIPWRI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_178278

ORF Size: 1776 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\\_178278.4](#), [NP\\_840062.2](#)

RefSeq Size: 2760 bp

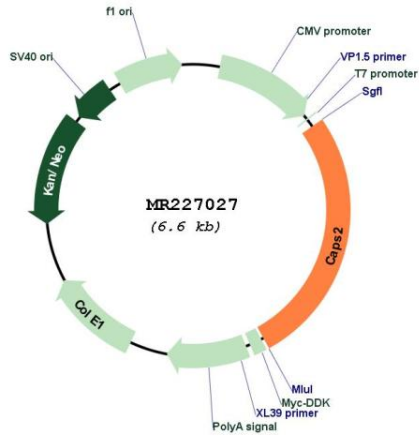
RefSeq ORF: 1779 bp

Locus ID: 353025

UniProt ID: [Q8BUG5](#)

Cytogenetics: 10 D2  
 MW: 67.4 kDa

**Product images:**



Circular map for MR227027