

Product datasheet for **MR221784**

Cap2 (NM_026056) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap2 (NM_026056) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cap2
Synonyms:	2810452G09Rik; AV045235
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221784 representing NM_026056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGACATGGCGGGACTGATGGAGAGGCTGGAACGTGCAGTCATCCGGCTGGAGCAGCTGTCTGCAG
 GGTTAGACGGACCTCCCAGAGGCTGCGGGGAAGTGAATGGTGTCAATGGAGGTGTGGCACCGTCCGTGGA
 AGCTTTTGACAACTGATAAACAGTATGGTGGCCGAGTCTTAAAGAACAGCCGAGTCTTTGCTGGTGAC
 GTAGAGACTCACGCAGAAATGGTGCACGGTGTCTTCCAAGCCCAGCGTGTCTTTCTCTCATGGTCTCGC
 AGTACCAACAACCCCAAGAGAATGAAGTTGCTGTCTTCTGAAGCCCATATCGGAGAAGATTCAAGAAAT
 ACAGACTTTCCGAGAGAGAAACCGGGGAAGCAACATGTTCAACCACCTCTCGGCAGTCAGTGAAAGCATC
 GCCGCCCTGGGCTGGATAGCCGTGTCCCCAAACCTGGTCTTATGTCAAGGAGATGAACGACGCTGCCA
 CCTTTTACACAAACAGGGTCTGAAAGACTACAAGCACAGCGATCTGCGCCACGTGGATTGGGTGAGGTC
 CTACCTCAACATCTGGAGCGAGCTGCAAGCCTACATCAGGGAACACCACACCACAGGCCCTCACTTGGAGC
 AAAACAGTCTGTGGCATCCACAGCGTCAGCGTTTTCCATCCTCTCCTCTGGGCCCTGGTCTCCCGCCAC
 CACCTCCACCACCACCTCCTCTGGGCCACCTCCACCCTTGGAGAATGAGGATAAAAAGGAGGAGCCCTC
 CCCTTCTCGCTCAGCTTTATTTGCCAGCTCAATCAAGGAGAAGCCATCACTAAAGGGCTCCGGCATGTC
 ACAGATGACAAGAAGACATACAAGAATCCCAGCCTGAGGGCTCAAGGACAGATTGCTCTCCAACAAAA
 CTCACACGCCGAGCCCCACATCTCCAAATCGAATTCTCCTCAGAAACATACTCCAGTGTGGAGCTGGA
 AGGGAAGAAGTGGAGAGTGAATACCAAGAGGACAGGAATGACCTTGTCATCTCCGAGACCGAGCTGAAA
 CAAGTGGCTTACATTTTCAAATGTGACAAATCCACTCTCAGATAAAGGGAAAAGTGAATCCATCACTG
 TCGATAACTGCAAGAAGTTGGCCTGGTGTGATCATGTGGTGGCATTGTGGAAGTGAATCAACTCCAA
 GGACATTCAGATCCAGGTAATGGGGAGAGTACCAACAATCTCCATTAATAAGACAGAAGGATGCCACCTG
 TACCTCAGTGAAGATGCACTAGACTGTGAGATCGTGAGCGCAAGTCGTCGAGATGAATGCTCTGGTCC
 CTCAGGATGACGATTATAGAGAATCCCCATCCCGAGCAGTTCAAGACAATATGGGATGGCTCCAAGCT
 GGTCCCGAACCTGCAGAGATCATGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221784 representing NM_026056
 Red=Cloning site Green=Tags(s)

MTDMAGLMERLERAVIRLEQLSAGLDGPPRGCGEVNGVNGGVAPSVEAFDKLINSMVAEFLKNSRVLAGD
 VETHAEMVHGAFQAQRAFLLMVSQYQPQENEVAVLLKPISEKIQEIQTFRERNRGSNMFNHL SAVSESI
 AALGWIIVSPKPGPYVKEMNDAATFYTNRVLKDYKHSDLRHVDWVRSYLNWSELQAYIREHHTTGLTWS
 KTGVPVASTASAFSILSSGPGLPPPPPPPPPPPPPFENEDKKEEPSPRSALFAQLNQGEAITKGLRHV
 TDDKTKYKNPSLRAQGQIRSPTKTHPSPTSPKSNPQKHTPVLELEGKKWRVEYQEDRNDLVISETELK
 QVAYIFKCDKSTLQIKGKVNSITVDNCKKFLVFDHVVGIVEVINSKDIQIQVMGRVPTISINKTEGCHL
 YLSEDALDCEIVSAKSSEMNVLPQDDDYREFPIPEQFKTIWDGSKLVTEPAEIMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9045_h09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_026056

ORF Size: 1428 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_026056.4](#), [NP_080332.1](#)

RefSeq Size: 3673 bp

RefSeq ORF: 1431 bp

Locus ID: 67252

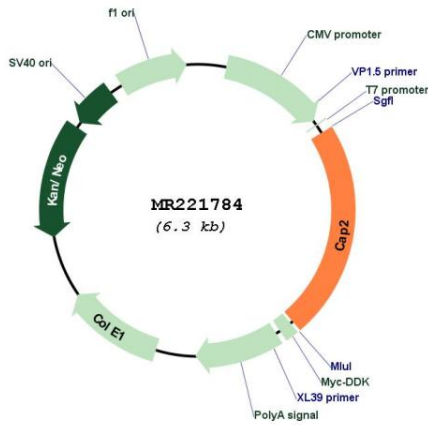
UniProt ID: [Q9CYT6](#)

Cytogenetics: 13 A5

MW: 53.3 kDa

Gene Summary: May have a regulatory bifunctional role.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221784