

## Product datasheet for **MR204352**

### Cope (NM\_021538) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cope (NM\_021538) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cope  
**Synonyms:** 1110005D17Rik; Cope1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR204352 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCTCCGGTTCCTGGCGGGTCTCTGGCGGCTCCGGAGAGGTAGATGAGCTGTTGACGTGAAGA  
ACGTTTCTACATCGGCAGCTACCAGCAGTGCATCAACGAGGCTCAGCGCGTGAAGCTCTCCAGTCTGA  
GCGGGAAGTAGAGAGGGATGTCTTCTATACAGAGCATACTCGCACAGAGGAAGTATGGCGTGGTCTG  
GATGAGATCAAACCTCCTCGGCCCCAGAACTCCAGGCTGTGCGCATGTTTGTGAGTACCTTGCCAGTG  
AGAACCAGAGGGACAGCATCGTGTGGAGCTGGATCGGGAGATGAGCAGGAGTGTGGATGTGACCAATAC  
CACTTTCCTGCTCATGGCTGCCTCCATCTACTTCCACGACCAGAACCCGGATGCAGCCCTGCGAACCCCTG  
CACCAGGGTGACGGCCTTGAGTGCATGGCCATGACGATTGAGATCCTCCTCAAGCTGGACAGGCTGGACC  
TAGCCCGGAAGGAGCTGAAGAAGATGCAGGACCAAGATGAGGACGCCACCCTTACCCAGCTAGCCACTGC  
CTGGGTCAACCTGGTGTGGGTGGTGAGAAGCTACAAGAAGCCTACTACATATCCAAGAGCTGGCCGAC  
AAGTGTCCCCACACTGCTGCTGCTCAATGGCCAGGCAGCCTGCCACTCGGCACAGGGCCGCTGGGAGA  
CTGCAGAGGGTGTGCTGCAAGAGGCACTGGACAAGGACAGCGGCCACCCTGAGACCCTCATCAATCTCAT  
TGTACTGTACAGCACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACTTGTACAGCTGAAGGATGCA  
CACAGGGCCACCCTTTCATCAAGGAGTACCAGGCCAAGGAGAACGATTCGATCGCCTGGCAATGCAGT  
ATGCGCCAGTGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204352 protein sequence  
Red=Cloning site Green=Tags(s)

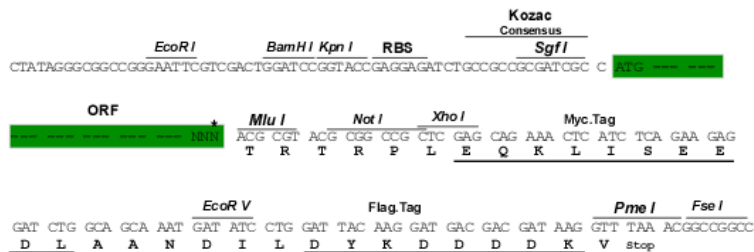
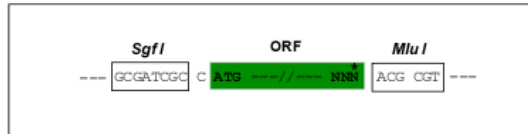
MAPPVPGAVSGGSGEVDLFDVKNFYIGSYQQCINEAQRVKLSSPEREVERDVFLYRAYLAQRKYGVVL  
 DEIKPSSAPELQAVRMFAEYLAENQRDSIVLELDREMSRSDVTNTTFLMAASIYFHDQNPDAALRTL  
 HQGDGLECMAMTIQILLKLDRLDLARKELKKMQDQDEATLTQLATAWVNLAVGGEKLQEAYYIFQELAD  
 KCSPTLLLLNGQAACHSAQGRWETAEGVLQEALDKDSGHPETLINLIVLSQHLGKPPEVTNRYLSQLKDA  
 HRAHPFIKEYQAKENDFDRLAMQYAPSA

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\_021538

**ORF Size:** 927 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\\_021538.1](#), [NP\\_067513.1](#)

**RefSeq Size:** 1043 bp

**RefSeq ORF:** 927 bp

**Locus ID:** 59042

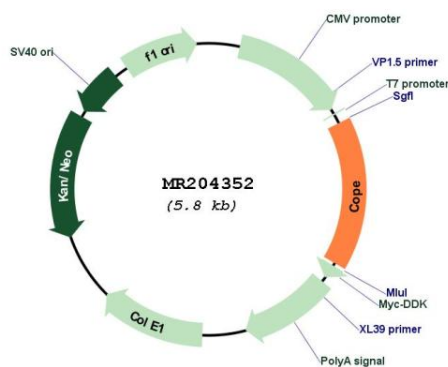
**UniProt ID:** [O89079](#)

**Cytogenetics:** 8 B3.3

**MW:** 34.6 kDa

**Gene Summary:** The coatamer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. The coatamer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatamer can only be recruited by membranes associated with ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204352