

Product datasheet for **MG204352**

Cope (NM_021538) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cope (NM_021538) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cope
Synonyms: 1110005D17Rik; Cope1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204352 representing NM_021538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCTCCGGTTCCTGGCGGGTCTCTGGCGGCTCCGGAGAGGTAGATGAGCTGTTTCGACGTGAAGA
 ACGTTTTCTACATCGGCAGCTACCAGCAGTGCATCAACGAGGCTCAGCGCGTGAAGCTCTCCAGTCTGA
 GCGGGAAGTAGAGAGGGATGTCTTCTATACAGAGCATACTCGCACAGAGGAAGTATGGCGTGGTCTG
 GATGAGATCAAACCTCCTCGGCCCGAAGTCCAGGCTGTGCGCATGTTTCTGAGTACCTTGCCAGTG
 AGAACAGAGGGACAGCATCGTGTGGAGCTGGATCGGGAGATGAGCAGGAGTGTGGATGTGACCAATAC
 CACTTTCCTGCTCATGGCTGCCTCCATCTACTTCCACGACCAGAACCAGGATGCAGCCCTGCGAACCTG
 CACCAGGGTGACGGCCTTGAGTGCATGGCCATGACGATTGAGTCCCTCAAGCTGGACAGGCTGGACC
 TAGCCCGAAGGAGCTGAAGAAGATGCAGGACCAAGATGAGGACGCCACCCTTACCCAGCTAGCCACTGC
 CTGGGTCAACCTGGTGTGGTGGTGAAGCTACAAGAAGCCTACTACATATCCAAGAGCTGGCCGAC
 AAGTGTCCCCACACTGCTGCTGCTCAATGGCCAGGCAGCCTGCCACTCGGCACAGGGCCGCTGGGAGA
 CTGCAGAGGGTGTGCTGCAAGAGGCACTGGACAAGGACAGCGCCACCCTGAGACCCTCATCAATCTCAT
 TGTACTGTACAGCACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACTTGTACAGCTGAAGGATGCA
 CACAGGGCCACCCTTTCATCAAGGAGTACCAGGCCAAGGAGAACGATTCGATCGCCTGGCAATGCAGT
 ATGCGCCAGTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204352 representing NM_021538
 Red=Cloning site Green=Tags(s)

MAPPVPGAVSGGSGEVDLFDVKNFYIGSYQQCINEAQRVKLSSPEREVERDVFLYRAYLAQRKYGVVL
 DEIKPSSAPELQAVRMFAEYLAENQRDSIVLELDREMSRSDVTNTTFLMMAASIFYHDQNPDAALRTL
 HQGDGLECMAMTIQILLKLDRLDLARKELKKMQDQDEATLTQLATAWVNLAVGGEKLQEAYYIFQELAD
 KCSPTLLLLNGQAACHSAQGRWETAEGVLQEALDKDSGHPETLINLIVLSQHLGKPPPEVTNRYLSQLKDA
 HRAHPFIKEYQAKENDFDRLAMQYAPSA

TRTRPLE - GFP Tag - V

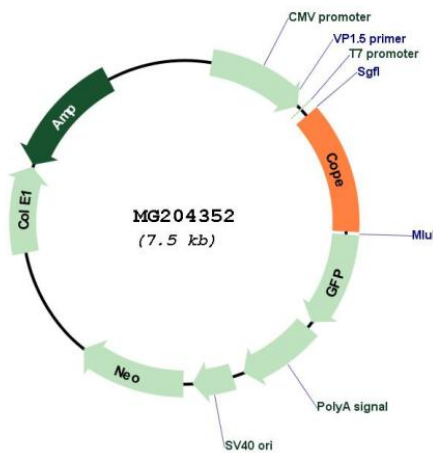
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021538

ORF Size: 924 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:	<ol style="list-style-type: none">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
Gene Summary:	The coatomer 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 coatomer 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 coatomer 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]