

## Product datasheet for **MG220512**

### **Cog7 (NM\_001033318) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cog7 (NM_001033318) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cog7
Synonyms:	5630400E24Rik; Gm167
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG220512 representing NM\_001033318  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACTTCTCCAAGTTCCTGGCTGACGACTTCGACGTGAAGGACTGGATTAATGCGGCCTTCAGAGCCG  
 GCCCAAAGACGGGCGGCGGGGAAGGCGGACGGTACGCGAGCCACCCTGGTAATGAAGCTGCAGCTGTT  
 CATCCAGGAGGTGAACCACGCCGTGGAGGAAACAAGTCTCCAGGCCCTCCAGAACATGCCAAAAGTGCTC  
 CGTGATGTGGAAGCCCTGAAGCAGGAGGCGTCTTTCTGAAAGAGCAAATGATTCTTGTCAAAGAGGACA  
 TAAAAAGTTTGAGCAGGACACGTACAGTCCATGCAGGTGCTGGTAGAGATTGACCAGGTGAAGTCCAG  
 GATGCAGCTTGTGCGGAATCTCTTCAGGAAGCTGACAAGTGGAGCACGCTGAGTGTGATATTGAGGAG  
 ACCTTCAAACACTAAGACATAGCTGTGATTTCTGCAAAGCTGACCGGCATGCAGAACAGCTTGATGATGC  
 TTGTGGATACTCCGGACTACTCTGAAAAGTGTGTGCACCTGGAGGCTCTGAAGAACAGACTGGAGGCCCT  
 GGCCAGCCCCAGATCGTAGCATCGTTCACCTCTCAGTCTGTGGATCAGTCTAAAGTGTTTGTGAAGGTG  
 TTTACTGAAATCGACCGGATGCCCCAGCTCCTTGCACTACTACAAGTGTCAAAAGGTACAGCTTCTAG  
 CAACCTGGCAAGAGCTGTGTGAGAGTGACCTTCCACTGGACCGGAGCTCACTGGCCTCTATGATGCCCT  
 GCTTGGCGCGTGGCACACAAAACCCAGTGGGCCACACAGGTTTTCAAGAACCCCAAGGTTGGTACG  
 GTGCTGTGATTGAGACCTGGGGGCTTGGTGCCTCCCTGCCCATGTGCCTCAGTGCAGGTGTGGAGA  
 GAGCCGGACCGGAGCTGGAGTCAACAGACTGTGGAGTTTTACGACACCACCGCCACTTTGCCAAGGG  
 GCTGGAATGGGCTGCTCCCCATCTCCAGGACCACAACCTGGTGAAGTTGTGGAGCTGGTGGATGCT  
 GTGTATGGTCCCTATAAACCTTCCAGTGAAGTACGGTGACATGGAGGAGAACAACCTTCTCATAACAG  
 TCAGCGCTGTGCCTCTGGAACACGGGGAAGTATTGACTGCGTTCAGGAGCTGAGCCACTCTGTGCACAA  
 GCTCTTTGGCTTGGCATCTGCAGCTGTTGACAGATGTGCCAAATTCACCAATGGCCTGGGGACCTGTGGA  
 CTGCTGACAGCCCTGAAATCCCTCTTTGCCAAGTATGTGTCTCACTTCACCAACGCTCTCCAGTCCATTC  
 GAAAGAAGTGCAAGCTGGATGACATTCCTCCCACTCCCTGTTTCAGGAAGACTGGACCGCTTTTCAGAA  
 TTCGGTCAGGATCATAGCCACCTGTGGAGAGCTTTCGCGCCAGTGTGGGGACTTTGAGCAGCAGCTGGCA  
 AACAGGATCCTGTCCACAGCGGGGAAGTATCTGTCTGACTCCTACAGCCCTCGGAGCCTGGCAGGTTTTC  
 AGGACAGCATCTTGACAGACAAGAAGAGCCCTGCCAAGAACCCATGGCAGGAATAAATTACCTCCAGAA  
 AGATAACCCTGTGAATATGCCAGTTTAAATGAAATACTTTATACCCTCAAGGAGAAGGGCTCCAGTAAC  
 CACAACCTACTGTCTGCGTCACGCACAGCCCTGACCCGGCTGAACCAGCAGGCCACCAGCTGGCTTTCG  
 ACTCGGTCTTCTTGCATCAAACAGCAGCTGCTGCTCGTTTCCAGGATGGATAGCTGGAACACAGCCGG  
 CATTGGTGAACCCCTGACAGACGATCTGCCTGCCTTCAGCCTCACACCTCTCGAGTACATCAGCAACATT  
 GGGCAGTACATCATGTCCCTGCCCTGAATCTTGAGCCATTTGTGACTCAAGAGGACTCTGCATTAGAGT  
 TGGCCTTGATGTGGGAAGCTGCCATTCCTCCTGAGCAAGGGGATGAACCTCCCGAGTTGGACAACAT  
 GGCTGACAATTGGCTGGGCTCCATTGCCAGAGCCACTATGCAGACCTACTGTGACGTGATCCTCCAGATC  
 CCGGAGGTGACCCCGACTCCACCAAGCAACTGGCCACCGACATCGACTATCTGATCAACGTGATGGACG  
 CACTGGGCTGCAGCCATCACGAACCTCCAGAACATTGGCGCGCTTTGAAGGCCAAGCCTGAGGAATA  
 TAGACAGGTGAGCAAAGGCTGCCACGCCGCTTGCAGCCACGGTGGCCACCATGCGTGGTGTGAATTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220512 representing NM\_001033318  
 Red=Cloning site Green=Tags(s)

```

MDFSKFLADDFVDKWINAAFRAGPKDGAAGKADGHAATLVMKLQLFIQEVNHAVEETSLQALQNMPKVL
RDVEALKQEASFLKEQMILVKEDIKKFEQDTSQSMQVLEIDQVKSRMQLAAESLQEADKWSTLSADIEE
TFKTQDIAVISAKLTGMQNSLMMLVDTDPDYSEKCVHLEALKNRLEALASPQIVASFTSQSVDQSKVFKV
FTEIDRMPQLLAYYYKCHKVQLLATWQELCQSDLPDRQLTGLYDALLGAWHTQTQWATQVFKNPHEVVT
VLLLIQTLGALVPSLPMCLSAVERAGPELELTRLLEFYDTTAHFAGKLEMALLPHLQDHNLVKVVELVDA
VYGPYPFKLKYGDMEENLLIQISAVPLEHGEVIDCVQELSHSVHKLFLASAAVDRCAKFTNGLGTCG
LLTALKSLFAKYVSHFTNALQSIRKKCKLDDIPPNSLFQEDWTAQNSVRIIATCGELLRQCGDFEQQLA
NRILSTAGKYLSDSYSPRSLAGFQDSILTDDKSPAKNPWEYNYLQKDNPAEYASLMEILYTLKEKGSSN
HNLLSASRTALTRLNQQAHQLAFDSVFLRIKQQLLLVSRMDSWNTAGIGETLTDDLPAFSLTPLEYISNI
GOYIMSLPLNLEPFVTQEDSALELALHAGKLPFPPEQGDELPELDNMADNWLGSARATMTQYCDVILQI
PEVTPHSTKQLATDIDYLVMDALGLQPSRTLQNIALLKAKPEEYRQVSKGLPRRLAATVATMRGVNY
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033318

**ORF Size:** 2310 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\\_001033318.3](#), [NP\\_001028490.2](#)

**RefSeq Size:** 2884 bp

**RefSeq ORF:** 2313 bp

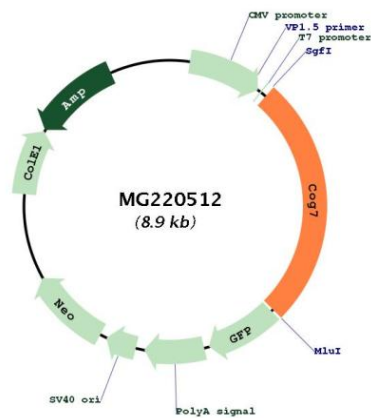
**Locus ID:** 233824

**UniProt ID:** [Q3UM29](#)

**Cytogenetics:** 7 F2

**Gene Summary:** Required for normal Golgi function.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220512