

## Product datasheet for **MR220512**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cog7 (NM_001033318) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cog7
Synonyms:	5630400E24Rik; Gm167
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR220512 representing NM\_001033318  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACTTCTCCAAGTTCCTGGCTGACGACTTCGACGTGAAGGACTGGATTAATGCGGCCTTCAGAGCCG  
GCCCAAAGACGGGGCGGCGGGGAAGGCGGACGGTACGCGAGCCACCCTGGTAATGAAGCTGCAGCTGTT  
CATCCAGGAGGTGAACCACGCCGTGGAGGAAACAAGTCTCCAGGCCCTCCAGAACATGCCCAAAGTGCTC  
CGTGATGTGGAAGCCCTGAAGCAGGAGGCGTCTTTCTGAAAGAGCAAATGATTCTTGTCAAAGAGGACA  
TAAAAAAGTTTGAGCAGGACACGTACAGTCCATGCAGGTGCTGGTAGAGATTGACCAGGTGAAGTCCAG  
GATGCAGCTTGTGCGGAATCTCTTCAGGAAGCTGACAAGTGGAGCACGCTGAGTGTGATATTGAGGAG  
ACCTTCAAACACTAAGACATAGCTGTGATTTCTGCAAAGCTGACCGGCATGCAGAACAGCTTGATGATGC  
TTGTGGATACTCCGGACTACTCTGAAAAGTGTGTGCACCTGGAGGCTCTGAAGAACAGACTGGAGGCCCT  
GGCCAGCCCCAGATCGTAGCATCGTTCACCTCTCAGTCTGTGGATCAGTCTAAAGTGTTTGTGAAGGTG  
TTTACTGAAATCGACCGGATGCCCCAGCTCCTTGCACTACTACAAGTGTCAACAAGGTACAGCTTCTAG  
CAACCTGGCAAGAGCTGTGTGAGAGTGACCTTCCACTGGACCGGAGCTCACTGGCCTCTATGATGCCCT  
GCTTGGCGCGTGGCACACAAACCCAGTGGGCCACACAGGTTTTCAAGAACCCCAAGGTTGGTGACG  
GTGCTGTGATTGAGACCTGGGGGCTTGGTGCCTCCCTGCCCATGTGCCTCAGTGCAGGTGTGGAGA  
GAGCCGGACCGGAGCTGGAGCTCACCAGACTGTGGAGTTTTACGACACCACCGCCACTTTGCCAAGGG  
GCTGGAATGGCGCTGCTCCCCATCTCCAGGACCACAACCTGGTGAAGTTGTGGAGCTGGTGGATGCT  
GTGTATGGTCCCTATAAACCTTCCAGTGAAGTACGGTGACATGGAGGAGAACAACCTTCTCATAACAG  
TCAGCGCTGTGCCTCTGGAACACGGGGAAGTATTGACTGCGTTCAGGAGCTGAGCCACTCTGTGCACAA  
GCTCTTTGGCTTGGCATCTGCAGCTGTTGACAGATGTGCCAAATTCACCAATGGCCTGGGGACCTGTGGA  
CTGCTGACAGCCCTGAAATCCCTCTTTGCCAAGTATGTGTCTCACTTCACCAACGCTCTCCAGTCCATTC  
GAAAGAAGTGCAAGCTGGATGACATTCCCTCCCACTCCCTGTTTCAGGAAGACTGGACCGCTTTTCAGAA  
TTCGGTCAGGATCATAGCCACCTGTGGAGAGCTTTCGCGCCAGTGTGGGGACTTTGAGCAGCAGCTGGCA  
AACAGGATCCTGTCCACAGCGGGGAAGTATCTGTCTGACTCCTACAGCCCTCGGAGCCTGGCAGGTTTTC  
AGGACAGCATCTTGACAGACAAGAAGAGCCCTGCCAAGAACCCATGGCAGGAATAAATTACCTCCAGAA  
AGATAACCCTGTGAATATGCCAGTTTAAATGAAATACTTTATACCCTCAAGGAGAAGGGCTCCAGTAAC  
CACAACTACTGTCTGCGTCACGCACAGCCCTGACCCGGCTGAACCAGCAGGCCACCAGCTGGCTTTCG  
ACTCGGTCTTCTTGCATCAAACAGCAGCTGCTGCTCGTTTCCAGGATGGATAGCTGGAACACAGCCGG  
CATTGGTGAACCCCTGACAGACGATCTGCCTGCCTTCAGCCTCACACCTCTCGAGTACATCAGCAACATT  
GGGAGTACATCATGTCCCTGCCCTGAATCTTGAGCCATTTGTGACTCAAGAGGACTCTGCATTAGAGT  
TGGCCTTGATGTGGGAAGCTGCCATTCCTCCTGAGCAAGGGGATGAACCTCCCGAGTTGGACAACAT  
GGCTGACAATTGGCTGGGCTCCATTGCCAGAGCCACTATGCAGACCTACTGTGACGTGATCCTCCAGATC  
CCGGAGGTGACCCCGACTCCACCAAGCAACTGGCCACCGACATCGACTATCTGATCAACGTGATGGACG  
CACTGGGCTGCAGCCATCACGAACCTCCAGAACATTGCGGCGCTTTGAAGGCCAAGCCTGAGGAATA  
TAGACAGGTGAGCAAAGGCTGCCACGCCGCTTGCAGCCACGGTGGCCACCATGCGTGGTGTGAATTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR220512 representing NM\_001033318  
 Red=Cloning site Green=Tags(s)

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MDFSKFLADDFVDKWINAAFRAGPKDGAAGKADGHAATLVMKLQLFIQEVNHAVEETSLQALQNMPKVL
RDVEALKQEASFLKEQMILVKEDIKKFEQDTSQSMQVLVEIDQVKSRMQLAAESLQEADKWSTLSADIEE
TFKTQDIAVISAKLTGMQNSLMMLVDPDYSEKCVHLEALKNRLEALASPQIVASFTSQSVDQSKVFKV
FTEIDRMPQLLAYYYKCHKVQLLATWQELCQSDLPDRQLTGLYDALLGAWHTQTQWATQVFKNPHEVVT
VLLLIQTLGALVPSLPMCLSGVERAGPELELTRLLEFYDTTAHFAGKLEMALLPHLQDHNLVYKVELVDA
VYGPYPFQKLYGDMENNLLIQISAVPLEHGEVIDCVQELSHSVHKLFLASAAVDRCAKFTNGLGTCG
LLTALKSLFAKYVSHFTNALQSIRKKCKLDDIPPNSLFQEDWTAQNSVRIIATCGELLRQCGDFEQQLA
NRILSTAGKYLSDSYSPRSLAGFQDSILTDKKSPAKNPWEYNYLQKDNPAEYASLMEILYTLKEKGSSN
HNLLSASRTALTRLNQAHLAFDSVFLRIKQQLLLVSRMDSWNTAGIGETLTDDLPAFSLTPLEYISNI
GQYIMSLPLNLEPFVTQEDSALELALHAGKLPFPPEQGDELPELDNMADNWLGSARATMTQYCDVILQI
PEVTPHSTKQLATDIDYLVNMDALGLQPSRTLQNI AALLKAKPEEYRQVSKGLPRRLAATVATMRGVNY
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9098\\_h08.zip](https://cdn.origene.com/chromatograms/mm9098_h08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

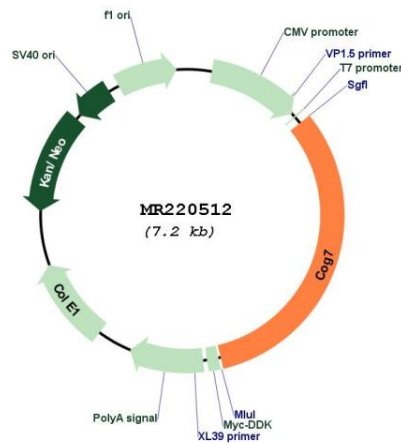
**ACCN:** NM\_001033318

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001033318.3, NP_001028490.2</u>
<b>RefSeq Size:</b>	2884 bp
<b>RefSeq ORF:</b>	2313 bp
<b>Locus ID:</b>	233824
<b>UniProt ID:</b>	<u>Q3UM29</u>
<b>Cytogenetics:</b>	7 F2
<b>MW:</b>	86.1 kDa
<b>Gene Summary:</b>	Required for normal Golgi function.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR220512