

Product datasheet for **MR216147**

Cog5 (NM_001163126) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cog5 (NM_001163126) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cog5
Synonyms:	5430405C01Rik; C87247; D18362; GOLTC1; GTC90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR216147 representing NM_001163126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGGTGGAGACAGCACAAATTTCCGTAGCAGGCCGTGGGGCTTCGGGTTCCGCAGTAGTGGCGCGA
 CCGTGCAGGCGATCCTGCAGGACGACTGTTATAGTGAATTTTAAATGAAGACTTTGATGTAAAACTTA
 CACTTCCCAATCTATTCAAGCTGTAATTGCTGAGCAACTAGCAAACTTGCCCAAGGGATCAGTCAG
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 GAGGGAGTAGAGAGATAACAAAAGCTGCTCAGAGTCTCAATGAAGTTGATTATCTTTCTCAAGGAATAGA
 TCTTTCTGGAATAGAAGTAATAGAGAATGATCTACTCTTTATTGCAAGAGCTCGACTTGAAGTGGAAAAC
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 CCATCCAGTTATATGCTGTGAAATCAGAACAGCTTCTCTCACTCAAGGAGATGCAAGCCAGGTGATTGG
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 CCCTGCTCTTCCAGACAAGTGAACATGTGGCCGACAGCCCGCAGTGGGAGACATTATACCATTCAGCAT
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 CCCTGGAAGCTTATGTTCAAGTCAAGTGAAGCAGGACGGTAAAGAATTTGCACCAAGTTTATCCCATAT
 GGTTCAGTCTGTTCAAAGGCTATGCTGCTCTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216147 representing NM_001163126
 Red=Cloning site Green=Tags(s)

MEGGDSTISVAGRGASGS AVVAATVQAILQDDCYSEFLNEDFDVKTYTSQSIHQAVIAEQLAKLAQGISO
 LDKELHLQVVARHEDLLAQATGIESLEGVLQMMQTRIGALQGAVDRMKS KIVEPYNKIVARTACLARLQV
 ACDLLRRIIRILYL SKRLQGQLQGGSREITKAAQSLNELDYL SQGIDLSGIEVIENDLLFIARARLEVEN
 QAKRLLEQGVETQNPTQVGTALQVFHNLGTLKETVTSVVDGYCAAE DSINNALDVKVLTPSQSAVRGG
 PGRAAMPTPGSTAGFRASLWTNMEKLM DHICAACGQVQHLQKVLTKKRD PVSHICFIEEIIKDGQPEILY
 MFWNAVTLALSSHFSATNSSMFLKQAFEGEY PKLLRLYNDLWKRLQQSSQNTQGT FSPSGTPDLCVDLP
 HMEDDTQDMFRLKRPDYDPEKALKDSLQPYEAYL SKSLSRLFDPINLVFP PGGRNPPSSDELGITKTI
 TSELNVAVDANLTLAVSKNVAKTIQLYAVKSEQLLSTQGDASQVIGPLTEGQKRNVGVVNSL FKLHQSV
 TKVVASQSSFSATAEQTIMSALKTIHDLMGNAIQPLLT SVADAIEAIIITMHQEDFSGASSSSGKPDVPC
 SLYMKELQGF IARVMNDYFKHFECLDFVFDNTEIAQRAIELFIRNASLIRPLGEGGKLRLAADFAQMEL
 AVGPLCRRVSDLGKSYRMLRSFRPLL FQTSEHVADSPAVGDIIPFSIIIQFLFTRAPAE LKSPFQRAEWS
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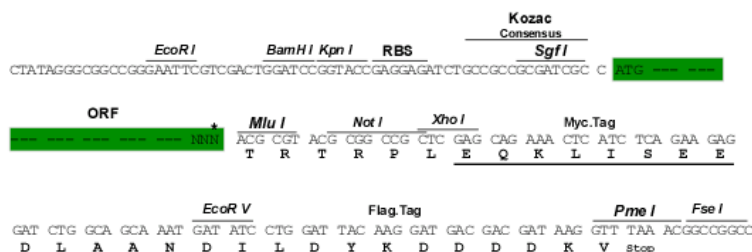
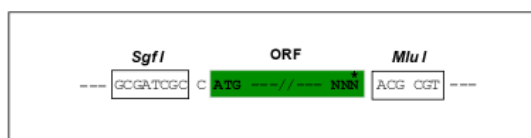
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9092_f03.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 001163126

ORF Size: 2487 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001163126.1](#), [NP_001156598.1](#)

RefSeq Size: 2997 bp

RefSeq ORF: 2490 bp

Locus ID: 238123

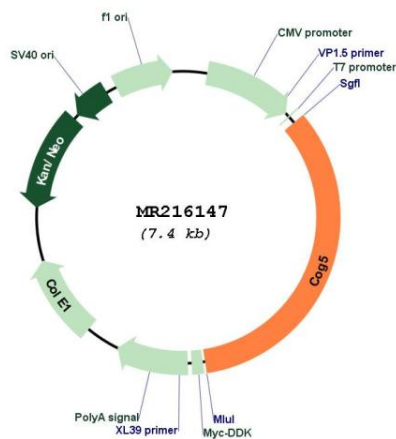
UniProt ID: [Q8C0L8](#)

Cytogenetics: 12 A2-A3

MW: 91.4 kDa

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

Product images:



Circular map for MR216147