

Product datasheet for **MG216147**

Cog5 (NM_001163126) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cog5 (NM_001163126) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cog5
Synonyms:	5430405C01Rik; C87247; D18362; GOLTC1; GTC90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG216147 representing NM_001163126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAAGGTGGAGACAGCACAAATTTCCGTAGCAGGCCGTGGGGCTTCGGTTCCGCAGTAGTGGCGCGA
 CCGTGCAGGCGATCCTGCAGGACGACTGTTATAGTGAATTTTAAATGAAGACTTTGATGTAAAACTTA
 CACTTCCCAATCTATTCAAGCTGTAATTGCTGAGCAACTAGCAAACTTGCCCAAGGGATCAGTCAG
 CTGGATAAAGAACTACACCTACAGGTTGTTGCAAGACATGAAGATTTATTGGCACAAGCAACTGGGATTG
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 TGAAGCAAGCATTGGAAGGTGAATACCTAACTCTTACGTCTTTATAATGACTTATGGAAGCGTCTTCA
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 CACATGGAAGACGACACACAAGCATGTTCAAGTGAAGAGGCCAGATTATGATCCAGAAAAGGCTTTGA
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 CTTGGTTTTCTCCGGGAGGACGTAATCCTCCTCTCTGATGAGCTCGATGGAATCACTAAGACTATA
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 CCCTGCTCTTCCAGACAAGTGAACATGTGGCCGACAGCCCGCAGTGGGAGACATTATACCATTCAGCAT
 CATCATTCAGTTTCTGTTCAAGAGCACCAGCTGAGCTGAAATCCCCCTTCCAGAGGGCAGAATGGTCT
 CATGCTCGCTTCTCCAGTGGCTGGATGATCACCCATCTGAAAAGGACAGGCTGCTCCTCTCAGGGGAG
 CCCTGGAAGCTTATGTTCAAGTCAAGTGAAGCAGGACGGTAAAGAATTTGCACCAAGTTTATCCCATAT
 GTTTCAGCTGCTTCAAAGGCTATGCTGCTCTTCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216147 representing NM_001163126

Red=Cloning site Green=Tags(s)

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MEGGDSTISVAGRGASGS AVVAATVQAILQDDCYSEFLNEDFDVKTYTSQSIHQAVIAEQLAKLAQGISO
LDKELHLQVVARHEDLLAQATGIESLEGVLQMMQTRIGALQGAVDRMKS KIVEPYNKIVARTACLARLQV
ACDLLRRIIRILYLSKRLQGQLQGG SREITKAAQSLNELDYLSQGIDLSGIEVIENDLLFIARARLEVEN
QAKRLLEQGVETQNPTQVGTALQVFHNLGTLKETVTSVVDGYCAAE DSINNALDVKVLTPPSQSAVRGG
PGRAAMPTPGSTAGFRASLWTNMEK LMDHICAACGQVQHLQKVLTKKRD PVSHICFIEEIIKDGQPEILY
MFWNAVTLALSSHFSATNSSMFLKQAFEGEYPKLLRLYNDLWKRLQSSQNTQGT FSPSGTPDLCVDLP
HMEDDTQDMFRLKRPDYDPEKALKDSLQPYEAAYLSKSLSR LFDPINLVFPPGGRNPPSSDELGITKTI
TSELNVAAVDANLTLAVSKNVA KTIQLYAVKSEQLLSTQGDASQVIGPLTEGQKRNVGVVNSLFKLHQSV
TKVVASQSSFSATAEQTIMSALK TIHDLMGNAIQPLLT SVADAIEAIIITMHQEDFSGASSSSGKPDVPC
SLYMKELQGF IARVMNDYFKHFECLDFVFDNTEIAQRAIELFIRNASLIRPLGEGGKLRLAADFAQMEL
AVGPLCRRVSDLGKSYRMLRSFRPLLFQTSEHVADSPAVGDIIPFSIIIQFLFTRAPAE LKSPFQRAEWS
HARFSQWLDDHPSEKDRLLLLRGAL EAYVQSVRSRDGKEFAPVYPIMVQLLQKAMSALQ
```

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



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

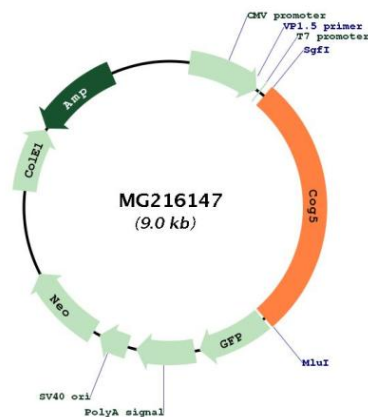
Locus ID: 238123

UniProt ID: [Q8C0L8](#)

Cytogenetics: 12 A2-A3

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

Product images:



Circular map for MG216147