

Product datasheet for **MR210645**

Cog4 (NM_133973) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cog4 (NM_133973) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cog4
Synonyms:	AW554810; D8Ertd515e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210645 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGAGGTGGAGTCTCCGCTGAAATTGTCAGGAGCTCTCCGCCACCGAGGGGTGGGAGGAGGAC
ACTGCTCCGAAATCTCCACCGAGCTCATTGCTCTCTGACAGAGCTGCAGGAGCTGGAAGCTGTGTACGA
ACGACTCTGTGGCGAGGAGAAAGCGGTGGAGAAAGAACTGGATGCTCTTTTGAACAGCAGAACACCATT
GAAAGTAAGATGGTCACTCTCCACAGGATGGGTCCCAGCCTGCAGTTGATTGAGGGAGACGCAAAGCAAC
TGGCTGGAATGATCACCTTTACCTGCAGCCTAGCTGAAAACGTGTCGAGCAAAGTCCGTCAGCTTGACCT
GGCCAAGAACCGCCTCTATCAGGCCATTCAGAGAGCCGATGACATCTTGGACCTGAAGTTCTGCATGGAT
GGAGTTCAGACTGCTTTGAGGAATGAGGATTATGAGCAGGCTGCAGCCCACATTCATCGTTACTTGTGCC
TGGACAAGTCAGTCATTGAGCTCAGCCGACAAGGCAAAGAAGGAAGCATGATTGATGCCAACCTGAAATT
ACTGCAGGAAGCTGAGCAACGTCTTAAGGCCATAGTCGCAGAGAAGTTTGTATCGCTACCAAAGAAGGT
GATTTGCCCCAGGTGGAGCGATTCTTAAGATCTTCCCACTGCTGGGTTTACATGAGGATGGCCTGAGCA
AGTTCTCGGAATACCTGTGCAAACAGGTCGCCAGTAAGGCTGAGGAGAATCTGTTGTTGGTGTGGGCTC
AGACATGAGTGATCGGAGAGCTGCGGTCACTTTGCGGATACTCTCACACTCCTGTTTGAAGGGATCGCC
CGAATTGTGAAACTCACCAACCATCGTGGAGACTTACTATGGACCAGGGCGACTCTTTACCCTGATCA
AATATCTTCAAGTAGAATGTGACACACAGGTGGAGAAGGTCGTAACAAGTTCATCAAGCAAAGGGACTA
CCACCAGCAGTTTCGGCTCGTCCAGAGTAATTTGATGAGAAATTTGCAACAGAAAAAATGAACCAAGG
GAGCTGGACCTGTCTTGACTGAGGTTACCCTGATGAATGCGCGAAGTGAAGTACTTACGCTTCTCTCA
GAAAGAGGATCAGCGCGGATTTTGAAGTGGGGACTCCATGGCTTCAGAAGAAGTAAAGCAAGAGCACCA
GAAGTGCCTGGACAAACTCCTCAATAACTGCCTATTGAGCTGTACCATGCAGGAGCTAATTGGCTTCTAT
ATTACCATGGAGAGTACTTTCATGAGAGAGACGGTCAATAAGGCTGTGGCTCTGGATACCTATGAGAAAG
GCCAGTTGACATCCAGCATGGTGGATGATGCTTCTACATTGTCAAAAAGTGCATTGGGCGGGCTGTGTC
CAGCTCTAACATCGACTGTCTGTGCCATGATCAACCTTGCCACCAGAGAGCTGGAAGCTGACTTCAGG
GATGTTCTATGTAATAAGCTAAGAATGGGCTTCCAGCCACCACCTTACAGGACATCCAGCGTGGGGTGA
CAAGTGCCGTGAACATCATGCACAGCAGCCTCCAGCAGGGCAAGTTTACACCAAAGGCATCGAGAGCAC
TGATGAAGCCAAGCTGTCTTCTGGTACTCTGAACAATGTGGAAGTCTGCAGTAAAACATCTCAACT
CTGAAGAAGACTCTGGAGAGTACTGCACCAAGCTCTTCAAGTCAGGGCATTGGAGGGGAACAGGCCCAGG
CCAAGTTTGACAGCTGCCTTTCTGACTTAGCTGCTGTGTCCAACAAATTTGAGAGCTCTTGCAGGAAGG
GTTGGCGGAGCTCAACAGTTCAGCAGTCAAGCCGAGGTGCAACCTTGGATCAACACTTTTCTCTCAGTC
TCGCACAGCATCGAGGAGGAAGAATTAACGACTATGAGGCCAATGACCCCTGGGTACAGCAATTCATCC
TCAACCTGGAACAGCAGATGGCAGAGTTCAAGGCCAGCCTGTCCCAGTCATCTATGACAGCCTAACCGG
CCTCATGACCAGCCTTGTGCTGTTGAACTGGAAAAAGTGGTCTGAAATCCACCTTCAACAGGCTGGGC
GGTCTGCAGTTTGACAAGAACTCCGGTCACTCATTGCTTACCTTACCACTGTGACAACCTGGACCATCC
GAGACAAGTTGCCCCGCTCTCTCAGATGGCTACAATCCTTAACCTAGAGCGGGTACTGAGATACTAGA
TTACTGGGGTGTAACTCTGGCCCTTTGACATGGCGCCTCACCCCTGCTGAAGTGGCAGAGGTGCTGGCT
CTGCGCATAGACTCCGCAATGAGGATATCAAGAGGCTGCGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210645 protein sequence
Red=Cloning site Green=Tags(s)

MAEVESPLKLSGAPPPEGVGGGHCSEISTELIRSLTELQELEAVYERLCGEEKAVEKELDALLEQQNTI
ESKMVTLHRMGPSLQLIEGDAKQLAGMITFTCSLAENVSSKVRQLDLAKNRLYQAIQRADDILDLKFCMD
GVQTLARNEDYEQAAAHIHRYLCLDKSVIELSRQGKEGSMIDANLKLQEAQRLKAIVAEKFAIATKEG
DLPQVERFFKIFPLLGLHEDGLSKFSEYLCKQVASKAEENLLLVLGSDMSDRRAAVIFADTLTLFEGIA
RIVETHQPIVETYYGPGRLFTLIKYLQVECDTQVEKVVNKFQKRDYHQFRLVQSNLMRNSATEKIEPR
ELDPVLTEVTLMNARSELYLRFRLKRISADFEVGDMSASEEVKQEHQKCLDKLLNNCLLSCTMQELIGFY
ITMEEYFMRETVNKAVALDITYEKGQLTSSMVDVFIYVKKCIGRALSSSNIDCLCAMILNATRELEADFR
DVLCKNLRMGFPATTLQDIQRGVTSAVNIHSSLQQGKFDTKGIESTDEAKLSFLVTLNNVEVCSENI
LKKTLSDCTKLSQIGGEQAQAKFDSCLSDLAAVSNKFRDLLQGLAELNSSAVKPVQVQVWINTFLSV
SHSIEEEEFNDYEANDPWVQQFILNLEQQMAEFKASLSPVIYDSL TGLMTSLVAVELEKVVVKSTFNRLG
GLQFDKELRSLIAYLTTVTWTIRDKFARLSQMATILNLERVTEILDYWGANSGLPTWRLTPAEVRQVLA
LRIDFRNEDIKRLRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_133973

ORF Size: 2358 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_133973.2](#), [NP_598734.1](#)

RefSeq Size: 2754 bp

RefSeq ORF: 2358 bp

Locus ID: 102339

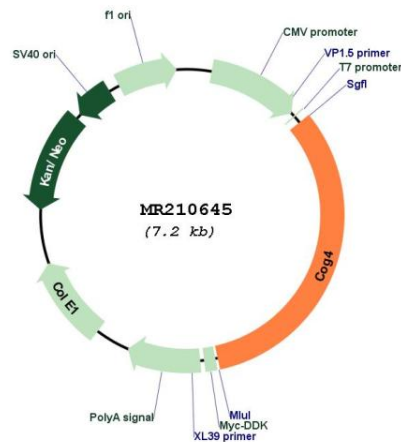
UniProt ID: [Q8R1U1](#)

Cytogenetics: 8 57.76 cM

MW: 88.7 kDa

Gene Summary: Required for normal Golgi function. Plays a role in SNARE-pin assembly and Golgi-to-ER retrograde transport via its interaction with SCFD1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210645