

## Product datasheet for **RG219413**

### COLQ (NM\_080539) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COLQ (NM_080539) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COLQ
Synonyms:	CMS5; EAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219413 representing NM_080539 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTGTCTGAATCCAATGACTTTGGGAATTTATCTTCAGCTTTTCTCCTCTCTATCGTGTCTCAGC  
CGACTTTCATCAACAGCGTTCTTTTCTTCAGAGGTGGCCGAAGTCCGCTTCTCTCCCAGACATGAAGAA  
TCTCATGTGGAAGTGGAGACCTCGCAGTCCCCGTGCATGCAAGGCTCGTAGGCTCCCCGGGCCTCCC  
GGCCCCAGGGTCCACCGGGCTTCTGGCAAGACAGGACAAAGGGAGAAAAGGGGAGCTTGGCCGAC  
CAGGAAGGAAGGTAGACCTGGCCCCCAGGTGTTCTGGCATGCCTGGGCCATCGGTTGGCCAGGCCC  
TGAAGGACCCAGGGGTGAAAAGGTGACCTGGGTATGATGGGCTTGCAGGGTCAAGAGGACCAATGGGC  
TCCAAGGGCTACCTGGATCCAGAGGGGAAAAGGGATCCAGAGGTGAAAAGGGTACCTGGTCCCAAAG  
GAGAAAAGGGTTTCCCAGGATTTCTGGAATGTTGGGGCAGAAAAGGTGAAATGGGTCCAAAAGGTGAACC  
TGGGATAGCAGGACACCGAGGACCCACAGGAAGACCAGGAAAACGAGGCAAGCAGGGACAGAAAAGGGAT  
AGTGGAGTTATGGGCCACCAGGCAAGCCTGGGCCTTCTGGTCAACCTGGCCGTCGGGGCCCCCAGGCC  
CCCCACCTGCAGGACAATTATAATGGGACCCAAAAGGGGAAAAGAGGATTTCCCGGCCTCCAGGAAGATG  
TCTTTGTGGACCACTATGAATGTGAATAACCCCTTCTACGGGGAATCTGTGTATGGGCCAGTTCCCCG  
CGAGTTCCTGTGATTTTGTGGTCAACAACCAGGAGGAGCTTGAGAGGCTGAACACCCAAAACGCCATTG  
CCTTCCGACAGACAGAGATCTCTGTACTTCAAGGACAGCCTTGGCTGGCTCCCCATCCAGCTGACCCC  
TTTCTACCTGTGGATTACACTGCAGACCAGCACGGCACCTGTGGGATGGGCTCCTGCAGCCTGGGGAG  
GAGTGTGACGACGGTAACAGCGATGTGGGTGACGACTGCATCCGCTGTCACCGTGCCTACTGTGGAGATG  
GTCACCGCATGAGGGTGTGGAGGACTGTGACGGCTCTGACTTTGGCTACCTGACATGCGAGACCTATCT  
CCCTGGGTCATATGGAGACCTGCAATGCACCCAGTACTGCTACATCGACTCCACGCCCTGCCCTACTTC  
ACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219413 representing NM\_080539  
Red=Cloning site Green=Tags(s)

MVVLNPMTLGIYLQLFFLSIVSQPTFINSVLFFRGRSPLLSPDMKNLMLELETSQSPCMQGSLSGSPGPP  
 GPQGGPGLPGKTGPKGEKGEKELGRPGRKGRPGPPGVPMPGPIGWPGPEGRGEKGDLMGMLPGSRGPMG  
 SKGYPGSRGEKSRGEKGDLPKGEKGFPGFPGMLGQKGEKMPKGEPIAGHRGPTGRPGRKRGKQGGKGD  
 SGVMGPPKPGSPGQGRPGPPGPPAGQLIMGPKGERGFPGPPGRCLCGPTMNVNPNPSYGESVYGPSSP  
 RVPVIFVYVNNQEELERLNTQNAIAFRDQRSLYFKDSLGLWLPQLTPFYVPDYTADQHGTCGDGLLPGE  
 ECDDGNSDVGDCCIRCHRAYCGDGRHEGVEDCDGSDFGYLTCTETYLPGSYGDLQCTQYCYIDSTPCRYF  
 T

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080539

**ORF Size:** 1263 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\\_080539.2](#)

**RefSeq Size:** 2909 bp

**RefSeq ORF:** 1266 bp

**Locus ID:** 8292

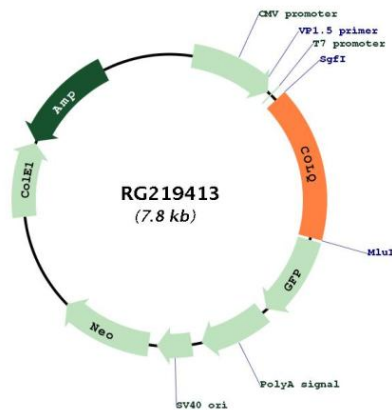
**UniProt ID:** [Q9Y215](#)

**Cytogenetics:** 3p25.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes the subunit of a collagen-like molecule associated with acetylcholinesterase in skeletal muscle. Each molecule is composed of three identical subunits. Each subunit contains a proline-rich attachment domain (PRAD) that binds an acetylcholinesterase tetramer to anchor the catalytic subunit of the enzyme to the basal lamina. Mutations in this gene are associated with endplate acetylcholinesterase deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG219413