

Product datasheet for **RG215128**

COLQ (NM_080538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COLQ (NM_080538) 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)



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ORF Nucleotide Sequence:

>RG215128 representing NM_080538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGGCTCATCATTACGCTCGCTCATCTGCTCATCATTTTCAGGACTGCTCTGTTACTCGGCAGGCT
 GCTTGGCCCTTCCCAGCCTGGATCAGAAGAAGCGTGGTGGCCACAAAGCATGCTGCCTGCTGACGCCTCC
 TCCACCACCCTGTTCCCACCACCTTCTCAGAGGTGGCCGAAGTCCGCTTCTCTCCCCAGACATGAAG
 AATCTCATGCTGGAAGTGGAGACCTCGCAGTCCCCGTGCATGCAAGGCTCGTAGGCTCCCTGGCCCTC
 CCGGCCCCAGGGTCCACCGGGGCTTCTGGCAAGACAGGACCAAGGGGAGAAAAGGGGAGCTTGGCCG
 ACCAGGAAGGAAGGTAGACCTGGCCCCCAGGTGTTCTGGCATGCCTGGGCCCATCGTTGGCCAGGC
 CCTGAAGGACCCAGGGTAAAAAGGTGACCTGGGTATGATGGGCTTCCAGGGTCAAGAGGACCAATGG
 GCTCCAAGGGCTACCCTGGATCCAGAGGGGAAAAGGGATCCAGAGGTAAAAGGGTACCTGGGTCCCAA
 AGGAGAAAAGGGTTTCCCAGGATTTCTGGAATGTTGGGGCAGAAAGGTGAAATGGTCCAAAAGGTGAA
 CCTGGGATAGCAGGACACCGAGGACCCACAGGAAGACCAGGAAAACGAGGCAAGCAGGGACAGAAAAGGG
 ATAGTGGAGTTATGGGCCACCAGGCAAGCCTGGGCCTTCTGGTCAACCTGGCCGTCCGGGGCCCCAGG
 CCCCCACCTGCAGGACAATTATAATGGGACCCAAAGGGGAAAGAGGATTTCCCGGGCCTCCAGGAAGA
 TGTCTTTGTGGACCCACTATGAATGTGAATAACCTTCTACGGGGAATCTGTGTATGGGCCAGTTCCC
 CGCGAGTTCCTGTGATTTTTGTGGTCAACAACCAGGAGGAGCTTGAGAGGCTGAACACCCAAAACGCCAT
 TGCCTTCCGCAGAGACCAGAGATCTCTGTACTTCAAGGACAGCCTTGGCTGGCTCCCCATCCAGCTGACC
 CCTTCTACCTGTGGATTACACTGCAGACCAGCACGGCACCTGTGGGGATGGGCTCCTGCAGCCTGGGG
 AGGAGTGTGACGACGGTAACAGCGATGTGGGTGACGACTGCATCCGCTGTCACCGTGCCTACTGTGGAGA
 TGGTACCAGGATGAGGGTGTGGAGGACTGTGACGGCTCTGACTTTGGCTACCTGACATGCGAGACCTAT
 CTCCTGGGTATATGGAGACCTGCAATGCACCCAGTACTGCTACATCGACTCCACGCCCTGCCGCTACT
 TCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215128 representing NM_080538
 Red=Cloning site Green=Tags(s)

MTGSSFSLAHLIIISGLLCYSAGCLALPSLDQKKRGGHKACLLTPPPPPLFPPPPFRGGRSPLSPDMK
 NLMLELETSQSPCMQGS LGSPGPPGQPPGLPGKTGPKGEKGEKELGRPGRKGRPGPPGVPMPGPIGWPG
 PEGPRGEKGDLMGMLPGSRGPMGSKGYPGSRGEKGSRGEKGDLPKGEKGFPGFPGMLGQKGEKMPKGE
 PGIAGHRGPTGRPGKRGKQKQKGD SGVMGPPGKPGPSGQPGRP GPPGPPAGQLIMGPKGERGFP GPPGR
 CLCGPTMNVNNSYGESVYGPSSPRVPVIFVNNQEELERLNTQNAIAFRRDQRSLYFKDSL GWLPIQLT
 PFYVPDYTADQHGTCDGLLQPGEECDGNSDVGDDCIRCHRAYCGDHRHEGVEDCDGSDFGYLTCEY
 LPGSYGDLQCTQYCYIDSTPCRIFT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_080538

ORF Size: 1335 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_080538.2](#), [NP_536799.1](#)

RefSeq Size: 2863 bp

RefSeq ORF: 1338 bp

Locus ID: 8292

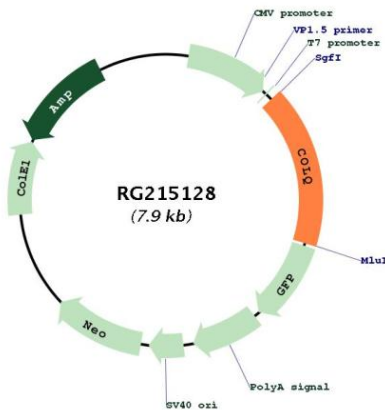
UniProt ID: [Q9Y215](#)

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 RG215128