

Product datasheet for **RG210401**

COLQ (NM_005677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COLQ (NM_005677) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG210401 representing NM_005677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGCTCTGAATCCAATGACTTTGGGAATTTATCTTCAGCTTTTCTCTCTATCGTGTCTCAGC
 CGACTTTCATCAACAGCGTTCTTCCAATCTCAGCAGCCCTCCAGCCTGGATCAGAAGAAGCGTGGTGG
 CCACAAAGCATGCTGCCTGCTGACGCCTCTCCACCACCCTGTTCCACCACCATTCTTCAGAGGTGGC
 CGAAGTCCGCTTCTCTCCCAGACATGAAGAATCTCATGCTGGAAGTGGAGACCTCGCAGTCCCCGTGCA
 TGCAAGGCTCGTAGGCTCCCCTGGGCCTCCCGCCCCAGGGTCCACCGGGGCTTCTGGCAAGACAGG
 ACCAAAGGAGAAAAGGGGGAGCTTGGCCGACCAGGAAGGAAGGGTAGACCTGGCCCCCAGGTGTTCT
 GGCATGCCTGGGCCATCGTTGGCCAGGCCCTGAAGGACCCAGGGGTGAAAAAGGTGACCTGGGTATGA
 TGGGCTTGCCAGGGTCAAGAGGACCAATGGGCTCAAGGGCTACCCTGGATCCAGAGGGGAAAAGGGATC
 CAGAGGTGAAAAGGGTACCTGGGTCCAAAGGAGAAAAGGGTTCCAGGATTTCTGGAATGTTGGGG
 CAGAAAGGTGAAATGGGTCCAAAAGGTGAACCTGGGATAGCAGGACACCGAGGCCACAGGAAGACCAG
 GAAAACGAGGCAAGCAGGGACAGAAAGGGGATAGTGGAGTTATGGGCCACCAGGCAAGCCTGGGCCTTC
 TGGTCAACCTGGCCGTCCGGGGCCCCAGGCCCCACCTGCAGGACAATTATAATGGGACCCAAAGGG
 GAAAGAGGATTTCCCGGGCTCCAGGAAGATGTCTTTGTGGACCCACTATGAATGTGAATAACCTTCTCT
 ACGGGGAATCTGTGTATGGGCCAGTTCCTCCCGGAGTTCTCTGTGATTTTGTGGTCAACAACCAGGAGGA
 GCTTGAGAGGCTGAACACCCAAAACGCCATTGCCTTCCGCAGAGACCAGAGATCTCTGTACTTCAAGGAC
 AGCCTTGGCTGGCTCCCATCCAGCTGACCCCTTCTACCCTGTGGATTACACTGCAGACCAGCAGCGCA
 CCTGTGGGGATGGGCTCCTGCAGCCTGGGAGGAGTGTGACGACGGTAACAGCGATGTGGGTGACGACTG
 CATCCGCTGTACCGTGCCTACTGTGGAGATGGTACCGGCATGAGGGTGTGGAGGACTGTGACGGCTCT
 GACTTTGGCTACCTGACATGCGAGACCTATCTCCCTGGGTCATATGGAGACCTGCAATGCACCCAGTACT
 GCTACATCGACTCCACGCCCTGCCGCTACTTCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

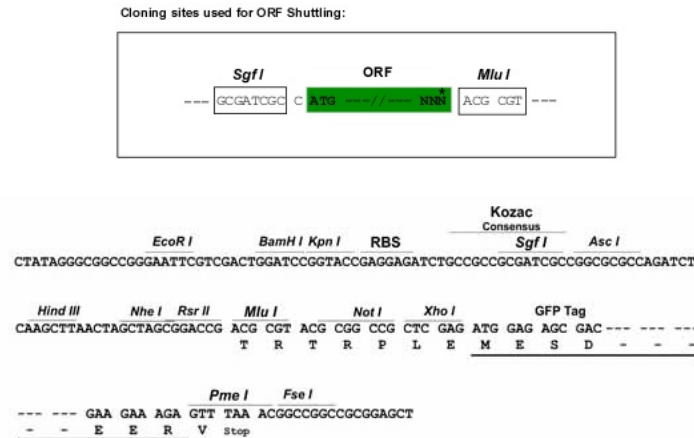
>RG210401 representing NM_005677
 Red=Cloning site Green=Tags(s)

MVVLNPMTLGIYLQLFFLSIVSQPTFINSVLPISAALPSLDQKKRGGHKACLLTPPPPLFPFPPFRGG
 RSPLLSPDMKNLMLELETSQSPCMQGSLSGPPGPPGPPGLPGKTGPKGEKGEKELGRPGRKGRPPGVP
 GMPGPIGWPGPEGRGEKGDLMGMLPGSRGPMGSKGYPGSRGEKGSRGEKGDLPKGEKGFPGFPGMLG
 QKGEKMPKGEPIAGHRGPTGRPGKRGKQKQKGDSDGVMGPPGKPGPSGQPGRPGPPGPPAGQLIMGPKG
 ERGFPGPPGRCLCGPTMNVNPNPSYGESVYGPSSPRVPVIFVVNNQEELERLNTQNAIAFRRDQRSLYFKD
 SLGWLPIQLTPFYVPDYTADQHGTCGDGLLQPGEECDGNSDVGDDCIRCHRAYCGDHRHEGVEDCDGS
 DFGYLTCEYLPGSYGLDQCTQYCYIDSTPCRYFT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005677

ORF Size: 1365 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_005677.4](#)

RefSeq Size: 3007 bp

RefSeq ORF: 1368 bp

Locus ID: 8292

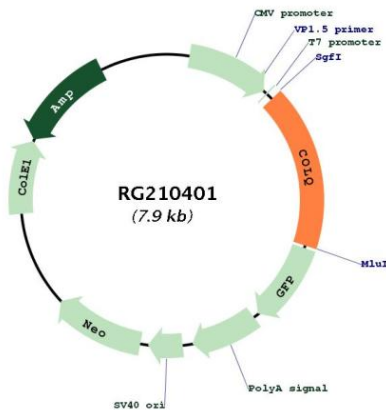
UniProt ID: [Q9Y215](#)

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 RG210401