

Product datasheet for **SC313960**

COCH (NM_004086) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COCH (NM_004086) Human Untagged Clone
Tag:	Tag Free
Symbol:	COCH
Synonyms:	COCH-5B2; COCH5B2; DFNA9; DFNB110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001135058 edited
 ATGTCCGCAGCCTGGATCCCGGCTCTCGGCCTCGGTGTGTGTCTGCTGCTGCTGCCGGG
 CCCGCGGGCAGCGAGGGAGCCGCTCCCATTGCTATCACATGTTTTACCAGAGGCTTGGAC
 ATCAGGAAAGAGAAAGCAGATGTCCTCTGCCAGGGGGCTGCCCTCTTGAGGAATTCTCT
 GTGTATGGGAACATAGTATATGCTTCTGTATCGAGCATATGTGGGGCTGCTGTCCACAGG
 GGAGTAATCAGCAACTCAGGGGGACCTGTACGAGTCTATAGCCTACCTGGTCGAGAAAAC
 TATTCCTCAGTAGATGCCAATGGCATCCAGTCTCAAATGCTTTCTAGATGGTCTGCTTCT
 TTCACAGTAAGTAAAGGCAAAAGTAGTACACAGGAGGCCACAGGACAAGCAGTGTCCACA
 GCACATCCACCAACAGGTAAACGACTAAAGAAAACACCCGAGAAGAAAAGTGGCAATAAA
 GATTGTAAAGCAGACATTGCATTCTGATTGATGGAAGCTTTAATATTGGGCAGCGCCGA
 TTTAATTTACAGAAGAATTTTGTGAAAAGTGGCTCTAATGTTGGGAATTGGAACAGAA
 GGACCACATGTGGGCTTGTTCAGCCAGTGAACATCCCAAAATAGAATTTTACTTGAAA
 AACTTTACATCAGCCAAAGATGTTTTGTTGCCATAAAGGAAGTAGGTTTCAGAGGGGGT
 AATTCCAATACAGGAAAAGCCTTGAAGCATACTGCTCAGAAATTTCTCACGGTAGATGCT
 GGAGTAAGAAAAGGGATCCCAAGTGGTGGTGGTATTTATTGATGGTTGGCCTTCTGAT
 GACATCGAGGAAGCAGGCATTGTGGCCAGAGAGTTGGTGTCAATGTATTATAGTTTCT
 GTGGCCAAGCCTATCCCTGAAGAACTGGGGATGGTTCAGGATGTCACATTTGTTGACAAG
 GCTGTCTGTGCGAATAATGGCTTCTTCTTACCACATGCCCAACTGGTTTGGCACCACA
 AAATACGTAAAGCCTCTGGTACAGAAGCTGTGCACTCATGAACAAATGATGTGCAGCAAG
 ACCTGTTATAACTCAGTGAACATTGCCTTTCTAATTGATGGCTCCAGCAGTGTGGAGAT
 AGCAATTTCCGCCTCATGCTTGAATTTGTTTCCAACATAGCCAAGACTTTTGAAATCTCG
 GACATTTGGTGCCAAGATAGCTGCTGTACAGTTTACTTATGATCAGCGCACGGAGTTTCACT
 TTCCTGACTATAGCACCAAGAGAATGTCCTAGCTGTATCAGAAACATCCGCTATATG
 AGTGGTGAACAGCTACTGGTGATGCCATTTCTTCACTGTTAGAAATGTGTTTGGCCCT
 ATAAGGGAGAGCCCAACAAGAATTCTAGTAATTGTCACAGATGGGCAGTCTATGAT
 GATGTCCAAGGCCTGCAGCTGCTGCACATGATGCAGGAATCACTATCTTCTCTGTTGGT
 GTGGCTTGGGCACCTCTGGATGACCTGAAAGATATGGCTTCTAAACCGAAGGAGTCTCAT
 GCTTTCTTACAAGAGAGTTACAGGATTAGAACCAATTGTTTCTGATGTCATCAGAGGC
 ATTTGTAGAGATTTCTTAGAATCCAGCAATAA

Restriction Sites: NotI-NotI

ACCN: NM_004086

Insert Size: 2100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_004086.1</u> , <u>NP_004077.1</u>
RefSeq Size:	2534 bp
RefSeq ORF:	1653 bp
Locus ID:	1690
UniProt ID:	<u>O43405</u>
Cytogenetics:	14q12
Domains:	VWA, LCCL
Gene Summary:	<p>The protein encoded by this gene is highly conserved in human, mouse, and chicken, showing 94% and 79% amino acid identity of human to mouse and chicken sequences, respectively. Hybridization to this gene was detected in spindle-shaped cells located along nerve fibers between the auditory ganglion and sensory epithelium. These cells accompany neurites at the habenula perforata, the opening through which neurites extend to innervate hair cells. This and the pattern of expression of this gene in chicken inner ear paralleled the histologic findings of acidophilic deposits, consistent with mucopolysaccharide ground substance, in temporal bones from DFNA9 (autosomal dominant nonsyndromic sensorineural deafness 9) patients. Mutations that cause DFNA9 have been reported in this gene. Alternative splicing results in multiple transcript variants encoding the same protein. Additional splice variants encoding distinct isoforms have been described but their biological validities have not been demonstrated. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice junction in the 5' end compared to variant 3. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 1 and 2 encode the same isoform (b).</p>