

Product datasheet for **SC326061**

COCH (NM_001135058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COCH (NM_001135058) 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: >NCBI ORF sequence for NM_001135058, the custom clone sequence may differ by one or more nucleotides

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ATGTCCGCAGCCTGGATCCCGGCTCTCGGCTCGGTGTGTGTCTGCTGCTGCCGGGGCCCGCGGGCA
GCGAGGGAGCCGCTCCCATTGCTATCACATGTTTTACCAGAGGCTTGGACATCAGGAAAGAGAAAGCAGA
TGTCTCTGCCAGGGGCTGCCCTCTTGAGGAATTCTGTGTATGGGAACATAGTATAGCTTCTGTA
TCGAGCATATGTGGGGCTGCTGTCCACAGGGGAGTAATCAGCAACTCAGGGGGACCTGTACGAGTCTATA
GCCTACCTGGTCGAGAAAATACTTCTCAGTAGATGCCAATGGCATCCAGTCTCAAATGCTTTCTAGATG
GTCTGCTTCTTTACAGTAACTAAAGGCAAAAGTAGTACACAGGAGGCCACAGGACAAGCAGTGTCCACA
GCACATCCACCAACAGGTAAACGACTAAAGAAAACACCCGAGAAGAAAAGTGGCAATAAAGATTGTAAG
CAGACATTGCATTTCTGATTGATGGAAGCTTAAATATTGGGCAGCGCGATTTAATTTACAGAAGAATTT
TGTTGGAAAAGTGGCTCTAATGTTGGGAATTGGAACAGAAGGACCACATGTGGGCCTTGTCAAGCCAGT
GAACATCCAAAATAGAATTTACTTGA AAAAATTTACATCAGCCAAAGATGTTTTGTTGCCATAAAGG
AAGTAGGTTTTCAGAGGGGTAATTCCAATACAGGAAAAGCCTTGAAGCATACTGCTCAGAAATTTCTCAC
GGTAGATGCTGGAGTAAGAAAAGGGATCCCAAAGTGGTGGTGGTATTTATTGATGGTTGGCCTTCTGAT
GACATCGAGGAAGCAGGCATTGTGGCCAGAGAGTTTGGTGTCAATGTATTATAGTTTCTGTGGCCAAGC
CTATCCCTGAAGAACTGGGGATGGTTCCAGGATGTCACATTTGTTGACAAGGCTGTCTGTCCGAATAATGG
CTTCTTCTTACCACATGCCAACTGGTTTGGCACCACAAAAACGTAAGCCTCTGGTACAGAAGCTG
TGCACTCATGAACAAATGATGTGCAGCAAGACCTGTTATAACTCAGTGAACATTGCCTTTCTAATTGATG
GCTCCAGCAGTGTGGAGATAGCAATTTCCGCCTCATGCTTGAATTTGTTCCAACATAGCCAAGACTTT
TGAAATCTCGGACATTGGTGCCAAGATAGCTGTACAGTTTACTTATGATCAGCGCACGGAGTTCAGT
TTCATGACTATAGCACCAAAAGAGAATGTCCTAGCTGTCATCAGAAACATCCGCTATATAGTGGTGGAA
CAGCTACTGGTGATGCCATTTCCCTTCACTGTTAGAAAATGTTTTGGCCCTATAAGGGAGAGCCCCAACAA
GAACCTTCTAGTAATTGTACAGATGGGCACTCTATGATGATGTCCAAGGCCCTGCAGCTGCTGCACAT
GATGCAGGAATCACTATCTTCTGTTGGTGTGGCTTGGGCACCTCTGGATGACCTGAAAGATATGGCTT
CTAAACCGAAGGAGTCTCATGCTTTCTTACAAGAGAGTTCACAGGATTAGAACCAATTGTTTCTGATGT
CATCAGAGGCATTTGTAGAGATTTCTTAGAATCCAGCAATAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001135058
- Insert Size:** 2100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:

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_001135058.1](#), [NP_001128530.1](#)

RefSeq Size: 2882 bp

RefSeq ORF: 1653 bp

Locus ID: 1690

UniProt ID: [O43405](#)

Cytogenetics: 14q12

Gene Summary: 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]

Transcript Variant: This variant (1) 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).