

Product datasheet for **RC225944**

COCH (NM_001135058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COCH (NM_001135058) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COCH
Synonyms:	COCH-5B2; COCH5B2; DFNA9; DFNB110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225944 representing NM_001135058
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTC**CCG**CAGCCTGGATCCCGGCTCTCGGCTCGGTGTGTCTGCTGCTGCCGGGGCCCGGGCA
 GCGAGGGAGCCGCTCCATTGCTATCACATGTTTTACCAGAGGCTTGACATCAGGAAAGAGAAAGCAGA
 TGTCTCTGCCAGGGGCTGCCCTCTGAGGAATTCTCTGTGTATGGGAACATAGTATATGCTTCTGTA
 TCGAGCATATGTGGGCTGCTGTCCACAGGGGAGTAATCAGCAACTCAGGGGACCTGTACGAGTCTATA
 GCCTACCTGGTCGAGAAAATACTCCTCAGTAGATGCCAATGGCATCCAGTCTCAAATGCTTTCTAGATG
 GTCTGCTTCTTTACAGTA**ACTAAAGGCAAAAGTAGTACACAGGAGGCCACAGGACAAGCAGTGTCCACA**
 GCATCCACCAACAGGTAACGACTAAAGAAAACACCCGAGAAGAAA**ACTGGCAATAAAGATTGTAAG**
 CAGACATTGCATTTCTGATTGATGGAAGCTTAAATATTGGGCAGCGCCGATTTAATTACAGAAGAATTT
 TGTTGGAAAAGTGGCTCTAATGTTGGGAATTGGAACAGAAGGACCACATGTGGGCCTTGTCAAGCCAGT
 GAACATCCAAAATAGAATTTACTTGA**AAA**ACTTTACATCAGCCAAAGATGTTTTGTTTGCATAAAGG
 AAGTAGGTTT**CAGAGGGGTAATCCAATACAGGAAAAGCCTTGAAGCATACTGCTCAGAAATCTTCAC**
 GGTAGATGCTGGAGTAAGAAAAGGGATCCCAAAGTGGTGGTATTTATTGATGGTTGGCCTTCTGAT
 GACATCGAGGAAGCAGGCATTGTGGCCAGAGAGTTGGTGTCAATGTATTTATAGTTTCTGTGGCCAAGC
 CTATCCCTGAAGAACTGGGGATGGTT**CAGGATGTCACATTTGTTGACAAGGCTGTCTGTCGGAATAATGG**
 CTTCTTCTTACCACATGCCAACTGGTTTGGCACCACAAAATCGTAAAGCCTCTGGTACAGAAGCTG
 TGCAGTGAACAAATGATGTGCAGCAAGACCTGTTATAACTCAGTGAACATTGCCTTTCTAATTGATG
 GCTCCAGCAGTGTGGAGATAGCAATTTCCGCCTCATGCTTGAATTTGTTTCCAACATAGCAAGACTTT
 TGAATCTCGGACATTGGTGCCAAGATAGCTGCTGTACAGTTTACTTATGATCAGCGCACGGAGTTCAGT
 TCACTGACTATAGCACAAAGAGAATGCCTAGCTGTCATCAGAAACATCCGCTATATGAGTGGTGGAA
 CAGCTACTGGTATGCCATTTCTTCACTGTTAGAAATGTGTTTGGCCCTATAAGGGAGAGCCCCAACAA
 GA**ACTTCTAGTAATTGTCACAGATGGGCAGTCTATGATGATGTCCAAGGCCCTGCAGCTGCTGCACAT**
 GATGCAGGAATCACTATCTTCTGTTGGTGTGGCTTGGGCACCTCTGGATGACCTGAAAGATATGGCTT
 CTA**AA**CCGAAGGAGTCTCATGCTTCTTCA**CAAGAGATTACAGGATTAGA**CCAATTGTTTCTGATGT
 CATCAGAGGCATTGTAGAGATTCT

ACGCGTACGCGGCCGCTCGAGCAGAA**ACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225944 representing NM_001135058
 Red=Cloning site Green=Tags(s)

MSAAWIPALGLGVCLLLLPGPAGSEGA**PIAITCFTRGLDIRKEKADVLCPGGC**PLEEFVSYGNIVYASV
 SSICGAAVHRGVISNSGGPVRVYSLPGRENYSSVDANGIQSQMLSRWSASFTVTKGSSTQEATGQAVST
 AHPPTGKRLKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIGTEGPHVGLVQAS
 EHPKIEFYLNFTSAKDVLFAIKEVGFRRGNSNTGKALKHTAQKFFTVDAGVRKGI**PKVVVV**VIDGWPSD
 DIEEAGIVAREFGVNVFIVSVAKPIPEELGMVQDVTFVDKAVCRNNGFFSYHMPNWF**GTTKYVKPLVQKL**
 CSHEQMMSKTCYNSVNI**AFLIDGSSSVGDSNFRMLLEFVS**NI**AKTFEISD**IGAKIAAVQFTYDQ**RTEFS**
 FTDYSTKENVLAVIRNIRYMSGGTATGDAISFTVRNVFGPIRES**PNKFLVIVTDGQSYDDVQGPAAAAH**
 DAGITIFSVGVAWAPLDDLKDMASKPKESHAF**FTREFTGLEPIVSDVIRGICRDS**

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2850_f09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135058

ORF Size: 1142 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 ORF: 1653 bp

Locus ID: 1690

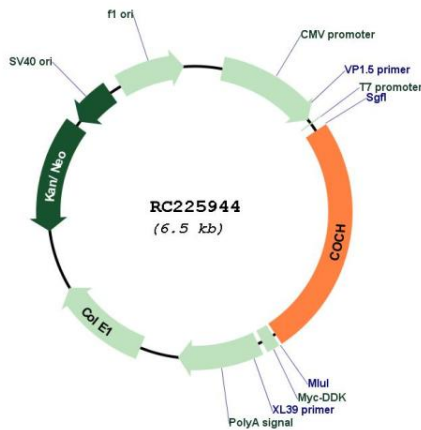
UniProt ID: [O43405](#)

Cytogenetics: 14q12

MW: 58.82 kDa

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]

Product images:


Circular map for RC225944