

Product datasheet for **RC220182**

COCH (NM_004086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COCH (NM_004086) 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:

>RC220182 representing NM_004086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCAGCCTGGATCCCGGCTCTCGGCTCGGTGTGTCTGCTGCTGCCGGGGCCCGGGCA
 GCGAGGGAGCCGCTCCATTGCTATCACATGTTTTACCAGAGGCTTGACATCAGGAAAGAGAAAGCAGA
 TGTCTCTGCCAGGGGCTGCCCTCTGAGGAATTCTGTGTATGGGAACATAGTATATGCTTCTGTA
 TCGAGCATATGTGGGCTGCTGTCCACAGGGGAGTAATCAGCAACTCAGGGGACCTGTACGAGTCTATA
 GCCTACCTGGTCGAGAAAATACTCCTCAGTAGATGCCAATGGCATCCAGTCTCAAATGCTTTCTAGATG
 GTCTGCTTCTTTACAGTAACTAAAGGCAAAAGTAGTACACAGGAGGCCACAGGACAAGCAGTGTCCACA
 GCACATCCACCAACAGGTAACGACTAAAGAAAACACCCGAGAAGAAAATGGCAATAAAGATTGTAAG
 CAGACATTGCATTTCTGATTGATGGAAGCTTAAATATTGGGCAGCGCCGATTTAATTCAGAAGAATTT
 TGTTGGAAAAGTGGCTCTAATGTTGGGAATTGGAACAGAAGGACCACATGTGGCCTTGTCAAGCCAGT
 GAACATCCAAAATAGAATTTACTTGA AAAAATTTACATCAGCCAAAGATGTTTTGTTTGCATAAAGG
 AAGTAGTTTTAGAGGGGTAATCCAATACAGGAAAAGCCTTGAAGCATACTGCTCAGAAATCTTCCAC
 GGTAGATGCTGGAGTAAGAAAAGGGATCCCAAAGTGGTGGTATTTATTGATGGTTGGCCTTCTGAT
 GACATCGAGGAAGCAGGCATTGTGGCCAGAGAGTTGGTGTCAATGTATTTATAGTTTCTGTGGCCAAGC
 CTATCCCTGAAGAACTGGGGATGGTTCCAGGATGTCACATTTGTTGACAAGGCTGTCTGTCGGAATAATGG
 CTTCTTCTTACCACATGCCAACTGGTTTGGCACCACAAAATACGTAAGCCTCTGGTACAGAAGCTG
 TGCAGTCATGAACAAATGATGTGCAGCAAGACCTGTTATAACTCAGTGAACATTGCCTTTCTAATTGATG
 GCTCCAGCAGTGTGGAGATAGCAATTTCCGCCTCATGCTTGAATTTGTTTCCAACATAGCCAAGACTTT
 TGAATCTCGGACATTGGTGCCAAGATAGCTGCTGTACAGTTTACTTATGATCAGCGCACGGAGTTCAGT
 TCACTGACTATAGCACCAAAGAGAATGCTTAGCTGTCATCAGAAACATCCGCTATATGAGTGGTGGAA
 CAGCTACTGGTATGCCATTTCTTCACTGTTAGAAATGTGTTTGGCCCTATAAGGGAGAGCCCCAACAA
 GAACCTCTAGTAATTGTCACAGATGGGCAGTCTATGATGATGTCCAAGGCCCTGCAGCTGCTGCACAT
 GATGCAGGAATCACTATCTTCTGTTGGTGTGGCTTGGGCACCTCTGGATGACCTGAAAGATATGGCTT
 CTAACCGAAGGAGTCTCATGCTTCTTCAACAAGAGATTACAGGATTAGAACCAATTGTTTCTGATGT
 CATCAGAGGCATTTGTAGAGATTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220182 representing NM_004086
 Red=Cloning site Green=Tags(s)

MSAAWIPALGLGVCLLLLPGPAGSEGAAPIAITCFTRGLDIRKEKADVLCPGGCPLEEFVSYGNIVYASV
 SSICGAAVHRGVISNSGGPVRVYSLPGRENYSSVDANGIQSMLSRWSASFVTKGKSSSTQEATGQAVST
 AHPPTGKRLKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIGTEGPHVGLVQAS
 EHPKIEFYLNFTSAKDVLFAIKEVGFRRGNSNTGKALKHTAQKFFTVDAGVRKGIKPVVVVVIDGWPSD
 DIEEAGIVAREFGVNVFIVSVAKPIPEELGMVQDVTFVDKAVCRNNGFFSYHMPNWFGTTKYVKPLVQKL
 CSHEQMMSKTCYNSVNI AFLIDGSSVGSNFRMLLEFVSNI AKTFEISDIGAKIAAVQFTYDQRTEFS
 FTDYSTKENVLAVIRNIRYMSGGTATGDAISFTVRNVFGPIRES PNKNFLVITDQGQSYDDVQGPAAAAH
 DAGITIFSVGVAWAPLDDLKDMASKPKESHAFFTREFTGLEPIVSDVIRGICRDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004086

ORF Size: 1635 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 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_004086.3](#)

RefSeq Size: 2558 bp

RefSeq ORF: 1653 bp

Locus ID: 1690

UniProt ID: [O43405](#)

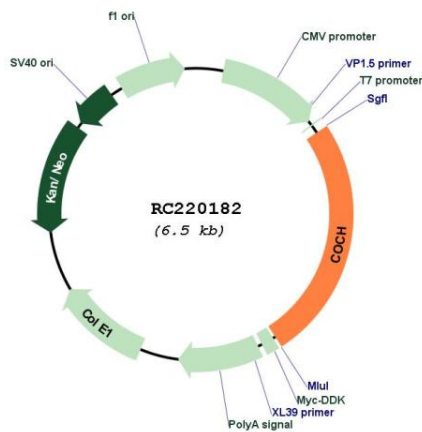
Cytogenetics: 14q12

Domains: VWA, LCCL

MW: 58.8 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 RC220182