

## Product datasheet for **RG225944**

### COCH (NM\_001135058) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COCH (NM_001135058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COCH
Synonyms:	COCH-5B2; COCH5B2; DFNA9; DFNB110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225944 representing NM\_001135058  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGCAGCCTGGATCCCGGCTCTCGGCTCGGTGTGTCTGCTGCTGCCGGGGCCCGCGGCA  
 GCGAGGGAGCCGCTCCCATTGCTATCACATGTTTTACCAGAGGCTTGACATCAGGAAAGAGAAAGCAGA  
 TGTCTCTGCCAGGGGCTGCCCTCTGAGGAATTCTCTGTGTATGGAACATAGTATATGCTTCTGTA  
 TCGAGCATATGTGGGCTGCTGTCCACAGGGGAGTAATCAGCAACTCAGGGGACCTGTACGAGTCTATA  
 GCCTACCTGGTCGAGAAAATACTCCTCAGTAGATGCCAATGGCATCCAGTCTCAAATGCTTTCTAGATG  
 GTCTGCTTCTTTACAGTAACTAAAGGCAAAAGTAGTACACAGGAGGCCACAGGACAAGCAGTGTCCACA  
 GCACATCCACCAACAGGTAACGACTAAAGAAAACACCCGAGAAGAAAATGGCAATAAAGATTGTAAG  
 CAGACATTGCATTTCTGATTGATGGAAGCTTAAATATTGGGCAGCGCCGATTTAATTTACAGAAGAATTT  
 TGTTGGAAAAGTGGCTCTAATGTTGGGAATTGGAACAGAAGGACCACATGTGGGCCTTGTCAAGCCAGT  
 GAACATCCAAAAATAGAATTTACTTGA AAAACTTTACATCAGCCAAAGATGTTTTGTTTGCATAAAGG  
 AAGTAGTTTTAGAGGGGTAATCCAATACAGGAAAAGCCTTGAAGCATCTGCTCAGAAATCTTTCAC  
 GGTAGATGCTGGAGTAAGAAAAGGGATCCCAAAGTGGTGGTGGTATTTATTGATGGTTGGCCTTCTGAT  
 GACATCGAGGAAGCAGGCATTGTGGCCAGAGAGTTGGTGTCAATGTATTTATAGTTTCTGTGGCCAAGC  
 CTATCCCTGAAGAACTGGGGATGGTTCCAGGATGTCACATTTGTTGACAAGGCTGTCTGTCCGGAATAATGG  
 CTTCTTCTTACCACATGCCAACTGGTTTGGCACCACAAAATACGTAAGCCTCTGGTACAGAAGCTG  
 TGCATCATGAACAAATGATGTGCAGCAAGACCTGTTATAACTCAGTGAACATTGCCTTTCTAATTGATG  
 GCTCCAGCAGTGTGGAGATAGCAATTTCCGCCTCATGCTTGAATTTGTTTCCAACATAGCCAAGACTTT  
 TGAATCTCGGACATTGGTGCCAAGATAGCTGCTGTACAGTTTACTTATGATCAGCGCACGGAGTTCAAT  
 TCACTGACTATAGCACCAAAGAGAATGCTTAGCTGTCATCAGAAACATCCGCTATATGAGTGGTGGAA  
 CAGCTACTGGTATGCCATTTCTTCACTGTTAGAAATGTGTTTGGCCCTATAAGGGAGAGCCCCAACAA  
 GAACCTTCTAGTAATTGTACAGATGGGCAGTCTATGATGATGTCCAAGGCCCTGCAGCTGCTGCACAT  
 GATGCAGGAATCACTATCTTCTGTTGGTGTGGCTTGGGCACCTCTGGATGACCTGAAAGATATGGCTT  
 CTAACCGAAGGAGTCTCATGCTTTCTTACAAGAGAGTTCACAGGATTAGAACCAATTGTTTCTGATGT  
 CATCAGAGGCATTTGTAGAGATTTCTTAGAATCCAGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225944 representing NM\_001135058  
 Red=Cloning site Green=Tags(s)

MSAAWIPALGLGVCLLLLPGPAGSEGAAPIAITCFTRGLDIRKEKADVLCPGGCPLEEFVSYGNIVYASV  
 SSICGAAVHRGVISNSGGPVRVYSLPGRENYSSVDANGIQSMLSRWSASFVTKGKSSTQEATGQAVST  
 AHPPTGKRLKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIGTEGPHVGLVQAS  
 EHPKIEFYLNKFTSAKDVLFAIKEVGFRRGNSNTGKALKHTAQKFFTVDAGVRKGIKPVVVVFIDGWPSD  
 DIEEAGIVAREFGVNVFIVSVAKPIPEELGMVQDVTFVDKAVCRNNGFFSYHMPNWFGTTKYVKPLVQKL  
 CTHEQMMSKTCYNSVNIAFLIDGSSSVGDSNFRMLLEFVSNIAKTFEISDIGAKIAAVQFTYDQRTEFS  
 FTDYSTKENVLAVIRNIRYMSGGTATGDAISFTVRNVFGPIRESNKNFLVIVTDGQSYDDVQGPAAAAH  
 DAGITIFSVGVAWAPLDDLKDMASKPKESHAFRTREFTGLEPIVSDVIRGICRDFLESQQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001135058
<b>ORF Size:</b>	1650 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001135058.1</a> , <a href="#">NP_001128530.1</a>
<b>RefSeq Size:</b>	2882 bp
<b>RefSeq ORF:</b>	1653 bp
<b>Locus ID:</b>	1690
<b>UniProt ID:</b>	<a href="#">O43405</a>
<b>Cytogenetics:</b>	14q12
<b>Gene Summary:</b>	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]