

## Product datasheet for **RG224965**

### CEACAM16 (NM\_001039213) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM16 (NM_001039213) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEACAM16
Synonyms:	CEAL2; DFNA4B; DFNB113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG224965 representing NM\_001039213  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTGATTTACTGAGCATTTACTCTGCGCCAGTCGTGGTAAGTACTGTACTTACATGTTACAATAA  
 GGAACACTGAGGCTTGGCAGAGTCCATAAATTGCCAGGGTCTGGAGGTAGGAAACAGTGGAACTATGTC  
 CAGAGCCTATACTTTTTTTTTTTTGGAGATGGAGTTTCATGGCGCTGACTGGGTACAGCTGGCTGCTCCTC  
 AGTGCCACATTCTGAATGTGGGGGCCGAGATCTCTATCACCTGGAGCCTGCCAGCCGAGCGAAGGGG  
 ACAACGTCACGCTGGTCGTCCATGGGCTTTCGGGGGAAGTCTCGCCTACAGCTGGTATGCGGGGCCAC  
 ACTCAGCGTGTACACCTGGTGGCCAGCTACATCGTGAGCACAGGCGATGAGACTCCTGGCCCGGCCAC  
 ACGGGCGGGAGGCTGTGCGCCCGATGGCAGCCTGGACATCCAGGGCATCCTGCCCGGCACTCAGGCA  
 CCTACATCTGCAGACCTCAACAGGCAGTTGCAGACCGAGGTGGGCTACGGACACGTGCAGGTCCATGA  
 GATCCTGGCCAGCCACAGTCTTGCCCAACAGCACAGCCTGGTGGAACTCGAGACACCTGCGCCTT  
 ATGTGCAGCAGCCACGCCACCGCCGAGGTCCGCTGTTCTTCAACGGTGGGGCCTGCCCGTCGCTC  
 TCCGCTGGGCTGTCCCTGACGGCCGGGTGCTGGCCAGGCATGGCATCCGCCGGGAGGAGCCGGCGC  
 CTATCAGTGTGAGGTGTGGAACCCGGTCAAGTGTGACCCGAGCGAGCCATCAACCTGACCGTGTACTTT  
 GGCCAGAGCGTGTGGCCATCCTCCAGGATCCACCACCCGCACAGGCTGCACCATCAAAGTTGACTTCA  
 ACACGTCCTCACCTGTGGTGGTGTCCAGGTCTGCCAGAGCCCGAGTATGTGTGGACCTTCAACGG  
 GCAGGCCCTAAGAACGGCAAGACCACCTCAACATCAGCAGCATGACAGCCGCCAGGAGGGGACGTAC  
 ACATGTATTGCGAAGAACCAAGACCCTGCTATCTGGATCTGCCTCAGTCGTGGTCAAGCTCTCTGCTG  
 CAGCAGTTGCCACGATGATCGTGCCCGTCCCAAGCCAAAGCCAGGAGGCCAGGACGTAACACTGACCGT  
 GCAGGGCTACCCCAAGGACCTGCTGGTCTACGCCCTGGTACCGCGGCCTGCCTCCGAGCCCAACCGGCTG  
 CTAGCCAGCTGCCGTACGGAACCTGGATTGCAGGCCCGCGCACACAGGCCGGGAGGTGGGCTTCCCCA  
 ACTGCTCGCTGTTGGTGCAGAAGCTGAACCTCACAGACTGGCCGCTACACACTCAAGACCGTCACAGT  
 GCAGGGCAAGACTGAGACTGGAAGTGGAGTGCAGGTGGCCCCCTGGGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224965 representing NM\_001039213  
 Red=Cloning site Green=Tags(s)

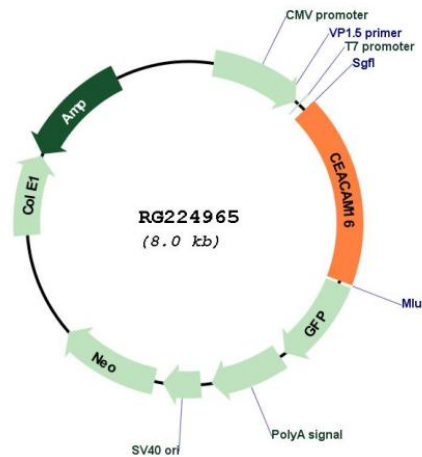
MSDLLSIYSAPVVVSTVLHMLQIRKLRLGRVHKLPRVLEVGNSTMSRAYTFFFLRWSFMALTGYSWLLL  
 SATFLNVGAEISITLEPAQPSEGDNVTLVHGLSGELLAYSWEYAGPTLSVSYLVASYIVSTGDETPGPAH  
 TGREAVRPDGSLDIQILPRHSGTYILQTFNRQLQTEVGYGHVQVHEILAQPTVLANSTALVERRDTLRL  
 MCSSPSPTAEVRWFFNGGALPVALRLGLSPDGRVLRHGIRREEAGAYQCEVWNPVSVSRSEPINLVYF  
 GPERVAAILQDSTTRTGCTIKVDFNTSLTLWCVSRSCPEPEYVWTFNGQALKNGQDHLNISSMTAAQEGTY  
 TCIANKTKLLSGSASVVVKSAAAVATMIVPVPTKPTGQDVTLLTVQGYPKDLLVYAWYRGPASEPNRL  
 LSQLPSGTWIAGPAHTGREVGFNPNCSSLVQKLNLTDTGRYTLKTVTVQGKTETLEVELQVAPLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001039213

**ORF Size:** 1452 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).

<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>	<u>NM_001039213.1, NP_001034302.1</u>
<b>RefSeq Size:</b>	1797 bp
<b>RefSeq ORF:</b>	1278 bp
<b>Locus ID:</b>	388551
<b>UniProt ID:</b>	<u>Q2WEN9</u>
<b>Cytogenetics:</b>	19q13.31-q13.32
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	The protein encoded by this gene is a secreted glycoprotein that in mouse interacts with tectorial membrane proteins in the inner ear. The encoded adhesion protein is found in cochlear outer hair cells and appears to be important for proper hearing over an extended frequency range. Defects in this gene likely are a cause of non-syndromic autosomal dominant hearing loss. [provided by RefSeq, May 2012]