

# Recombinant Human OTOA Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** OTOA-2169H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | OTOA MS Standard C13 and N15-labeled recombinant protein (NP_653273) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The protein encoded by this gene is specifically expressed in the inner ear, and is located at the interface between the apical surface of the inner ear sensory epithelia and their overlying acellular gels. It is proposed that this protein is involved in the attachment of the inner ear acellular gels to the apical surface of the underlying nonsensory cells. Mutations in this gene are associated with autosomal recessive deafness type 22 (DFNB22). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 126.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MSQEPTTYSFLFLFLSHGVSSYTPNSRQDLHPLLQNMAEEIIDGSYLNALLDLIQF<br>QSSHVWTDLSDHRLAYLNSRNVAFTIPSLQAAVENHLEQRLHQPQKLLDLRKT<br>AQQFRTAMKCLLEDKKDGLDLKDIIIDLGEIRERALQSPGVNRSFLITLERCFQMLNS<br>LECVEILGKVLRGSSGSFLQPDITERLPRDLREDAFKNLSAVFKDLYDKTSAHSQRAL<br>YSWMTGILQTSSNATDDASWVSAEHLWVLGRYMVHLSFEEITKISPIEIGLFISYDN<br>ATKQLDMVYDITPELAQAFLERISSNFNMRNTSTIHRLGLLVCFYNDLELLDATVAQ                                                                                                                                                                                                |

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VLLYQMIKCSHLRGFQAGVQKLKAELLDIAMENQTLNETLGSLSDAVVGLTYSQLES  
 LSPEAVHGAISTLNQVSGWAKSQVIILSAKYLAHEKVLVSFYNVSQMGALLAGVSTQA  
 FCSMKRKDISQVLRSAVSQYVSDLSPAQQQGILSKMVQAEDTAPGIVEIQGAFFKEV  
 SLFDLRRQPGFNSTVLKDKELGRSQALFLYELLKTTTRPEELLSAGQLVKGVTCSHI  
 DAMSTDFFLAHFQDFQNNFALLSPYQVNCLAWKYWEVSRLSMPPFLAALPARYLA  
 SVPASQCVPFLISLGKSWLDSLVLDSHKKTSVLRKVQQCLDDSIAD EYTVDIMGNLLC  
 HLPAAIIDRGISPRAWATALHGLRDCPD LNPEQKA AAVRLKLLGQYGLPQH WTAETTK  
 DLGPFLVLFSGDELSSIA TKFPEILLQAASKMARTLPTKEFLWAVFQSVRNSSDKIPS  
 YDPM PGCHGVVAPSSDDIFKLA EANACWALEDLRCMEEDTFIRTVELLGAVQGFSR  
 PQLMTLKEKAIQVWDMPSYWREHHIVSLGRIALALNESELEQLDLSSIDTVASLSWQ  
 TEWTPGQAESILQGYLDDSGYSIQDLKSFHLVGLGATLCAINITEIPLIKISEFRVVVAR  
 IGTLLCSTHVLAEFKRKA EVVFGDPTEWTSSVLQELGTIAAGLTKAALRMLDKDLMPY  
 FQPSAIKCLPDEIFKELSAEQIASLGPENAAVTHAQRRRLSPLQLQSLQQALDGAKT  
 HSWQDAPASAGPTRTSSSRSPAGALQSWGLWLGCP LLVLMAKLLWTRTRPLEQKL  
 ISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

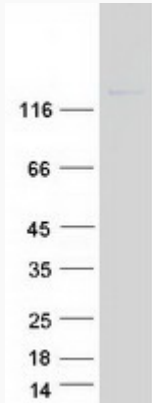
## GENE INFORMATION

**Gene Name** OTOA otoancorin [ Homo sapiens (human) ]

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | OTOA                                                                                                                                 |
| <b>Synonyms</b>        | OTOA; otoancorin; deafness, autosomal recessive 22, DFNB22; cancer/testis antigen 108; CT108; DFNB22; FLJ32773; MGC39813; MGC157747; |
| <b>Gene ID</b>         | 146183                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_144672                                                                                                                            |
| <b>Protein Refseq</b>  | NP_653273                                                                                                                            |
| <b>MIM</b>             | 607038                                                                                                                               |
| <b>UniProt ID</b>      | Q7RTW8                                                                                                                               |
| <b>SDS-PAGE</b>        |                                                  |