

Product datasheet for **RN217722**

Otof (NM_001276720) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otof (NM_001276720) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Otof
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN217722 representing NM_001276720 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCCTGATCGTCCACCTCAAGACTGTTTCTGAGCTTCGAGGCAGAGCTGATCGGATCGCCAAAGTCA
CTTCCGAGGACAGTCTTCTATTCCCGGGTCTGGAGAACTGCGAGGATGTGGCTGACTTCGATGAGAC
ATTCGGTGGCCAGTGGCTAGCAGCATCGACAGGAATGAAGTGTGGAGATTAGATTTCACCTACAGC
AAAGTCTTCAGCAACAACTAATCGGGACCTCCGCATGGTGTGCAGAAGGTGGTGGAGGAGAATCGGG
TAGAGGTGTCTGACACGCTGATCGATGACAACAATGCTATCATCAAGACCAGCCTAAGCATGGAGGTCCG
GTATCAAGCCGACAGATGGCACAGTAGGCCCTTGGGATGATGGAGACTTTCTGGGAGATGAATCCCTTCAG
GAGGAAGAGAAAGACAGCCAGGAGACAGATGGTCTGCTACCTGGCTCCCGACCCAGCACCCGGACACCCG
GCGAGAAGAGCTTTGGAAGAGCGGGAAGGAGTGTATTCTCGGCCATGAACTCGGCAAGACTCGTCCCA
CAAAGAGGAGCCCAAAGACAAGATGAGCCAGCGGTGCTGGAGATGGAGGACCTGGACCACCTAGCCATC
CGGCTGGGGGATGGGCTGGATCCTGACTCAGTGTCTCTAGCCTCGGTCACTGCTCTACCAGCAATGTCT
CCAACAAACGGTCTAAGCCAGATATTAATGGAACCGAGTGTGGGAGACCCATGGATTACCAGGTCAG
CATCACAGTGATTGAGGCTCGGACGCTGGTGGGTTTGAACATGGACCCCGTGGTGTGCGTGGAGGTGGC
GATGACAAAAATACACATCCATGAAGGAGTCCACAACTGCCCTTACTACAACGAGTACTTCGTCTTTG
ACTTCCACGTCTCTCCTGATGTATGTTTGACAAGATCATCAAGATCTCGGTTATCCATTCTAAGAACCT
GCTTCAAGCGGCACTCTGGTGGGCTCCTTCAAAATGGATGTGGGGACCGTGTACTCCCAGCCTGAACAC
CAGTTCCATCACAAATGGGCTATCCTGTGACAGCCCGATGACATCTCTGCCGGGTGAAGGGCTATGTAA
AGTGTGATGTGCGCGTGGTGGGCAAGGGAGACAACATCAAGACACCCACAAGGCCAACGAGACAGATGA
GGATGACATTGAAGGGAACCTGCTGTCCCCGAGGGCGTGCCCCAGAACGGCAGTGGGCCCGGTTCTAC
GTGAAAATTTACCGAGCAGAGGGACTGCCCGGATGAACACAAGCCTCATGGCCAACGTAAGAAGGCGT
TCATCGGTGAGAACAAAGACCTCGTCGACCCCTACGTTCAAGTCTTCTTGTGGACAGAAGGGCAAAAC
ATCAGTGCAGAAGAGCAGCTATGAGCCGCTGTGGAATGAGCAGGTCGTCTTTACAGATCTGTTCCCCCA
CTCTGCAAGCGCATGAAGGTGCAGATCCGAGACTCCGACAAGGTCAACGAGTGGCCATCGCACCCACT
TCATCGACCTGCCAAGATTTCAACGATGGAGACAAAGGCTTCTGCCTACGCTCGGCCAGCCTGGGT



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GAACATGTACGGCTCCACACGCAACTACACGCTGCTGGACGAGCACCAGGACCTGAATGAGGGCCTGGG
 GAGGGGTGTCTTCCGTGCCCGCCTCATGTTGGGACTGGCTGTGGAGATCCTAGACACCTCCAACCCAG
 AGCTCACCAGTCCACCGAGGTGCAGGTGGAGCAGGCCACACCTGTCTCAGAGAGCTGCACAGGGAGAAT
 GGAAGAATTTTCTATTTGGAGCCTTCTGGAAGCCTCAATGATCGACCGGAAAAATGGGGACAAGCCA
 GTGACCTTTGAGGTGACCATAGGAACTATGGCAATGAAGTCGATGGTACATCCCGGCCCCAGAGGCCTC
 GGCCCCGAAGGAACCTGGGGATGAAGAAGAGGTAGACCTGATTGAGAACTCCAGTGACGACGAGGGTGA
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 GATGATCAAAACGGAGAAGTCTACCCGGAGCGACGCCTGCGGGGTGTGCTAGAGGAACTCAGCTGTGGC
 TGCCACCCTTCTCTCCCTCTCGGACAAGGACCAGGGTCACTCGTCCCGCACCAGGCTGGATCGGGAGC
 GCCTCAAATCCTGTATGAGGGAGCTGGAGAGCATGGGACAACAAGCCAAGAGCCTGAGGGCTCAGGTGAA
 GCGACACACTGTACGGGACAAGCTGAGGTTATGCCAGAACTTCTGCAGAACTACGCTTCTAGCTGAT
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 GAACTCTACCTGTGGCTGGGCCTCAGCAAGCAGAGAAAGGACTTCTGTGTGGCTGCCTTGTGGCTTCG
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 GCAAACCTTCCAGCTCCGAGCCACATGTATCAGGCCCGAAGCCTCTTCGCCGCTGACAGCACTGGGCTC
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 CCTGTGCCTGTGGGAATCCGGCCCGTGTCTCAGCAAGTACAGAGTGGAGGTGCTGTTCTGGGGCTGAGGG
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 ACAATCGTCCCTGATCCACAATTATAAGAAGAACCCCACTTCAACACCCTGGTCAAGTGGTTTGAAGTG
 GACCTCCCAGAGAATGAGCTCTGCACCCACCCTTGAACATCCGGGTGGTGGACTGCCGGCCTTTGGAC
 GATACACCCTGGTGGGCTCCCATGCAGTCAGTCACTACGACGCTTCATCTACCGACCCCGGACCGCTC
 GGCCGCCAACTGGAACACCACAGTCAGGCTTCTCCGGGGTACCACATGCTGTGCAATGGGGGCCCTCT
 TCTTGCCCCACAGGGGAGGTTGTAGTGAGCATGGAACCTGAAAGTGCCAGTTAAGAAGCTGGAGACCTGG
 TGAAGCTGGATGCGACTTCTGATGCTGTGGTCAAGGTGGATGTGGCTGAAGATGAGAAGGAAAGGAAGAA
 GAAGAAAAAGAAAGGCCATCAGAGGAGGCAGAGGAGGAGGAACCCGATGAGAGCATGCTGGATTGGTGG
 TCCAAGTACTTTGCCCTCATTGACACAATGAAGGAGCAACTTCGACAACATGAGACCTCTGGGATTGATT
 TGGAAGAGAAGGAAGAAATGGATAGCACTGAGGGCCTGAAGGGGCCAGTGAAGAACAAGGAGAAGTCCAG
 AGCTGCAAAGGAGGAAAAAAGAAGAAAAATCAGAACCCTGGCCCTGGCCAGGGATCGGAGGCTCCTGAG
 AAGAAGAAAGCAAGATCGACGAGCTTAAGGTGTATCCAAGGAGCTAGAGTCGGAGTTTGACAACCTTG
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 AGAACGCATAGTAGGCCGATTCAAGGGTTCCTCTGTGTGTACAAAGTGCCACTCCCGGAGGATGTGTCT
 CGTGAAGCTGGCTACGATCCACCTACGGAATGTTCCAGGGCATCCCAAGCAATGACCCCATTAATGTGC
 TGGTCCGAATCTATGTGGTCCGGGCCACAGACCTGCACCCGGCTGACATCAATGGCAAAGCCGACCCCTA
 TATCGCCATCAAGTTAGGCAAGACTGACATCCGAGACAAGGAGAACTACATCTCCAAGCAGCTCAACCT
 GTCTTTGAAAGTCTTTGACATTGAGGCCTCCTTCCCCATGGAGTCCATGCTGACAGTGGCTGTGTACG
 ACTGGGATCTGGTGGGCACTGATGACCTCATCGGAGAAACCAAGATCGACCTGAAAACCGCTTCTACAG
 CAAGCACCCTGCTACCTGCGGCATCGCGCAGACCTATTCCATACATGGCTATAATATCTGGAGAGACCCC
 ATGAAGCCAGCCAGATCCTGACCCGCTCTGCAAAGAGGGCAAAGTGGACGGCCCCACCTTTGGTCCCC
 ATGGGAGAGTGAAGGTGCGCAACCGTGTCTTACAGGGCCTTACAGAGATAGAGGATGAGAATGGTCAGAG
 GAAGCCCACAGATGAGCACGTGGCACTGTCTGCTCTGAGACACTGGGAGGACATCCCCGGGTGGGCTGC
 CGCCTTGTACCGGAGCACGTGGAGACCAGGCCGTTGCTCAACCCTGACAAGCCAGGCATTGAGCAGGGCC
 GCCTGGAGCTGTGGGTGGATATGTTCCCATGGATATGCCGGCCCTGGAACACCTCTGGATATCTCCCC
 CAGGAAACCAAGAAGTATGAGCTGCGCGTCATCGTGTGGAACACAGATGAGGTGGTCTGGAAGACGAC

GATTTCCTTCACGGGAGAGAAGTCCAGTGATATTTTGTGAGGGGGTGGCTGAAGGGCCAGCAGGAGGACA
AACAGGACACAGACGTACATTCACTCCCTCACGGGTGAGGGCAACTTCAACTGGCGATACCTGTTCCC
CTTCGACTACCTGGCGGCCGAAGAGAAGATCGTTATGTCCAAGAAGGAGTCCATGTTCTCCTGGGATGAG
ACGGAGTACAAGATACCTGCGCGGCTCACCTGCAGATCTGGGACGCTGACCACTTCTCAGCCGATGACT
TCCTGGGGGCCATCGAGCTGGACCTGAACCGTTCCCGAGGGGGCGCAAGACAGCCAAGCAGTGCACCAT
GGAGATGGCCACCGGGGAGGTGGATGTCCCCCTGGTTTCCATCTTTAAACAGAAACGTGTCAAAGGCTGG
TGCCCTCTCTGGCCCGCAATGAGAAATGATGAATTTGAACTCACGGGCAAAGTAGAGGCAGAGTTACACC
TCCTCACCGCAGAGGAGGGCGGAGAAACCCGGTGGGCTGGCTCGCAATGAACCTGACCCCTAGAAAA
ACCCAATCGGCCGACAGCAAGCTCATCTGCTTCTGAACCTCTCAAGTCTGCCGCTACTTCTGTGG
CATACCTACCGCTGGCTGCTCCTCAAACCTGCTGCTGCTCCTCTGCTGCTGCTGCTCGCCCTGTTTC
TCTACTCTCTGCCTGGCTACCTGGCCAAGAAGATCCTTGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM 001276720

Insert Size: 5997 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001276720.1](#), [NP_001263649.1](#)

RefSeq Size: 7118 bp

RefSeq ORF: 5997 bp

Locus ID: 84573

Cytogenetics: 6q14

Gene Summary: human homolog is associated with an autosomal recessive form of prelingual sensorineural deafness, DFNB9 [RGD, Feb 2006]