

Product datasheet for RC215244

Otoferlin (OTOF) (NM_194323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otoferlin (OTOF) (NM_194323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OTOF
Synonyms:	AUNB1; DFNB6; DFNB9; FER1L2; NSRD9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC215244 representing NM_194323 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

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Protein Sequence: >RC215244 representing NM_194323
 Red=Cloning site Green=Tags(s)

MIKTEKSYPERRLRGVLEELSCGCCRFSLADKDQGHSSRTRLDRERLKSCMRELENMGQQARMLRAQVK
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 QAFQLRAHMYQARSLFAADSSGLSDPFARVFFINQSQCTEVLNETLCPTWDQMLVFDNLELYGEAHEL
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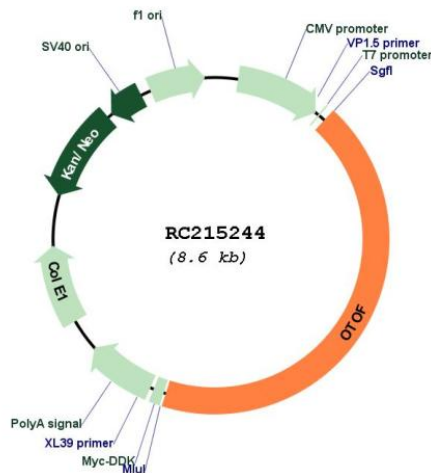
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_194323

ORF Size: 3690 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).

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_194323.3](#)

RefSeq Size: 4771 bp

RefSeq ORF: 3693 bp

Locus ID: 9381

UniProt ID: [Q9HC10](#)

Cytogenetics: 2p23.3

Protein Families: Druggable Genome, Transmembrane

MW: 140.3 kDa

Gene Summary: Mutations in this gene are a cause of neurosensory nonsyndromic recessive deafness, DFNB9. The short form of the encoded protein has 3 C2 domains, a single carboxy-terminal transmembrane domain found also in the *C. elegans* spermatogenesis factor FER-1 and human dysferlin, while the long form has 6 C2 domains. The homology suggests that this protein may be involved in vesicle membrane fusion. Several transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Jul 2008]