

## Product datasheet for **RC232771**

### **TMPRSS3 (NM\_001256317) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMPRSS3 (NM_001256317) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMPRSS3
Synonyms:	DFNB8; DFNB10; ECHOS1; TADG12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232771 representing NM\_001256317  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCTTCTCATTCCGATCGCTTTTTGGCCTTGATGATT  
 TGAATAAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAA  
 GTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATCCAC  
 TTCGACTGCTCAGGGAAGTACAGATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACG  
 GAGTCTCGGATTGCAAAGACGGGAGGACGAGTACCGCTGTGTCCGGTGGTGGTGAAGTCCGCTGCT  
 CCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGTCACGCAATGTT  
 GCCTGTGCCAACTGGGTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAAGTCCGCTGGAGGGC  
 AGTTCGGGAGGAGTTTGTGTCATCGATCACCTCTGCCAGATGACAAGGTGACTGCATTACACCACTC  
 AGTATATGTGAGGAGGGATGTGCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCCTGTGGTCATAGA  
 AGGGGCTACAGCTCACGCATCGTGGTGGAAACATGTCCTTGCTCTCGCAGTGGCCCTGGCAGGCCAGCC  
 TTCAGTCCAGGGCTACCACCTGTGCGGGGCTCTGTCATCACGCCCCTGTGGATCATCACTGCTGCACA  
 CTGTGTTTATGACTTGTACCTCCCAAGTCATGGACCATCCAGGTGGGTCTAGTTTCCCTGTTGGACAAT  
 CCAGCCCCATCCCACTTGGTGGAGAAGATTGTCTACCACAGCAAGTACAAGCCAAAGAGGCTGGCAATG  
 ACATCGCCCTTATGAAGCTGGCCGGGCCACTCACGTTCAATGAAATGATCCAGCCTGTGTGCTGCCAA  
 CTCTGAAGAGAACTCCCGATGGAAAAGTGTGCTGGACGTCAGGATGGGGGCCACAGAGGATGGAGGT  
 GACGCCTCCCCTGTCTGAACCACGCGGCCCTCCCTTTGATTTCCAACAAGATCTGCAACCACAGGGACG  
 TGTACGGTGGCATCATCTCCCCCTCCATGCTCTGCGCGGGCTACCTGACGGGTGGCGTGGACAGTGCCA  
 GGGGACAGCGGGGGCCCTGGTGTGTAAGAGAGGAGGCTGTGGAAGTTAGTGGGAGCGACCAGCTTT  
 GGCATCGGCTGCCAGAGGTGAACAAGCCTGGGTGTACACCCGTGTACCTCCTTCTGGACTGGATCC  
 ACGAGCAGATGGAGAGAGACCTAAAAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232771 representing NM\_001256317  
 Red=Cloning site Green=Tags(s)

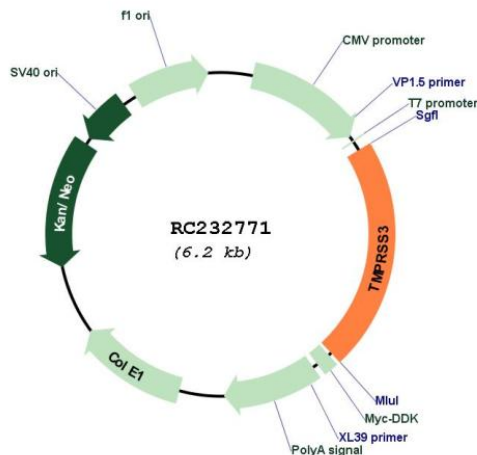
MGENDPPAVEAPFSFRSLFGLDDLKISPVAPDADAVAAQILSLLPLKFFPIIVIGIIALILALAIGLGIH  
 FDCSGKYRCRSSFKIELIARCDGVSDCKDGEDEYRCVVRVGGQNAVLQVFTAASWKTMCSDDWKGHYANV  
 ACAQLGFPSYVSSDNLRVSSLEGQFREEFVSIHLLPDDKVTALHHSVYVREGCASGHVVTLQCTACGHR  
 RGYSSRIVGGNMSLLSQWPWQASLQFQGYHLCGGSVITPLWIITAAHCYVDLYLPKSWTIQVGLVSLLDN  
 PAPSHLVEKIVYHSKYKPKRLGNDIALMKLAGPLTFNEMIQPVCLPNSEENFPDGKVCWTSWGWATEDGG  
 DASPVLNHAAPLISNKNHRDYYGGIISPSMLCAGYL TGGVDSCQGDSGGPLVCQERRLWKL VGATSF  
 GIGCAEVNKPVGYYTRVTSFLDWIHEQMERDLKT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001256317

**ORF Size:** 1359 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\\_001256317.3](#)

**RefSeq Size:** 2460 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 64699

**UniProt ID:** [P57727](#)

**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome, Protease, Transmembrane

**MW:** 49.8 kDa

**Gene Summary:** This gene encodes a protein that belongs to the serine protease family. The encoded protein contains a serine protease domain, a transmembrane domain, an LDL receptor-like domain, and a scavenger receptor cysteine-rich domain. Serine proteases are known to be involved in a variety of biological processes, whose malfunction often leads to human diseases and disorders. This gene was identified by its association with both congenital and childhood onset autosomal recessive deafness. This gene is expressed in fetal cochlea and many other tissues, and is thought to be involved in the development and maintenance of the inner ear or the contents of the perilymph and endolymph. This gene was also identified as a tumor-associated gene that is overexpressed in ovarian tumors. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2012]