

Product datasheet for **SC111838**

TMPRSS3 (NM_024022) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS3 (NM_024022) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMPRSS3
Synonyms:	DFNB8; DFNB10; ECHOS1; TADG12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024022, the custom clone sequence may differ by one or more nucleotides

```
ATGGGGGAAAATGATCCGCTGCTGTTGAAGCCCCCTTCTCATTCCGATCGCTTTTTGGCCTTGATGATT
TGAAAATAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAA
GTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATCCAC
TTCGACTGCTCAGGGAAGTACAGATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACG
GAGTCTCGGATTGCAAAGACGGGGAGGACGAGTACCGCTGTGTCGGGTGGTGGTCCAGAAATGCCGTGCT
CCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTT
GCCTGTGCCAACTGGGTTTCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGC
AGTTCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTC
AGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAAGTGCACAGCCTGTGGTCATAGA
AGGGGCTACAGCTCACGCATCGTGGGTGAAAACATGTCCTTGCTCTCGCAGTGGCCCTGGCAGGCCAGCC
TTCAGTTCCAGGGCTACCACCTGTGCGGGGCTCTGTATCACGCCCCTGTGGATCATCACTGCTGCACA
CTGTGTTTATGACTTGTACCTCCCAAGTCATGGACCATCCAGGTGGGTCTAGTTTCCCTGTTGGACAAT
CCAGCCCCATCCCACTTGGTGGAGAAGATTGTCTACCACAGCAAGTACAAGCCAAAGAGGCTGGGCAATG
ACATCGCCCTTATGAAGCTGGCCGGGCCACTCACGTTCAATGAAATGATCCAGCCTGTGTGCCTGCCAA
CTCTGAAGAGAACTTCCCCGATGAAAAGTGTGCTGGACGTGAGGATGGGGGGCCACAGAGGATGGAGCA
GGTGACGCCTCCCTGTCTGAACCACGCGCCGTCCTTTGATTCCAACAAGATCTGCAACCACAGGG
ACGTGTACGTTGGCATCATCTCCCCCTCCATGCTCTGCGCGGGCTACCTGACGGTGGCGTGGACAGCTG
CCAGGGGGACAGCGGGGGCCCCCTGGTGTGCAAGAGAGGAGGCTGTGGAAGTTAGTGGGAGCGACCAGC
TTTGGCATCGGCTGCGCAGAGGTGAACAAGCCTGGGGTGTACACCCGTGTACCTCCTTCTGGACTGGA
TCCACGAGCAGATGGAGAGAGACCTAAAAACCTGA
```



[View online >](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024022 unedited
 ACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGTTTATGGGAAGCCAGTAACACT
 GTGGCCTACTATCTCTCCGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAGGT
 AGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGA
 TCCGCCTGCTGTTGAAGCCCCCTCTCATTCCGATCGCTTTTTGGCCTTGATGATTTGAA
 AATAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGCTACTGCTGCC
 ATTGAAGTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCAT
 TGGTCTGGGCATCCACTTCGACTGCTCAGGGAAGTACAGATGTCGCTCATCCTTTAAGTG
 TATCGAGCTGATAGCTCGATGTGACGGAGTCTCGATTGCAAAGACCGNGAGGACGAGTA
 CCGCTGTGTCCGGGTGGGTGGTCAAGTCCCGTCTCCAGGTGTTACAGCTGCTTCGTG
 GAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAAATGTTGCCTGTGCCAACT
 GGGTTTCCCAAAGCTATGTAGNTCAGATAACCTCAGAGTGAGCTCGTGGAGGGGAGTT
 CCGGGGAGAGTTTGTGTCCATCGATCACCTTTGCCAGATGACANGGTGACTGCATTACA
 CCACTCAGTATATGTGAGGGAGGATGTGCCCTCTGCCACGTGGTTACCTTGCACTGCAC
 AGCCTGTGGTCATAGAAGGGCTACAGCTCACGCATCGTGGGNTGAAACATGTNCTTGCT
 CTCGCAGTGGCCCTGGCANGCCANNCTTCACTCCAGGGCTACCCACTGTGCGGNGGCTCT
 GCATCACGCCCTGTGATATACTGCTGCCACTGNGTTATGACTNGACCTCCCAAGTCATG
 ACANCAAGTGGTCTAGNTTCTGTTGACAATCANNATCCACTGNTGGAAAAATGTTACC
 CGCAGACAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024022 unedited
 ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGGAAGGAAACATA
 TTATTTGGAATCAAAGGACAATAATACGTCAGCACCAAATGCTACAAAGAAATCATGAA
 AATAGGCCTTAAACGAGTCATTCTAGATTAACCTCCCCACATGTGAAAAAAGTCTTGG
 AAGTAGAAAGGGTGGGTTTGGTCTGGTCCCTAGAGATGAAAACGTGCAGTGACTGCACT
 TCTGCACTTCTGGGCTGGTGCCTTTTTCTGAGTGGCTGTTGGTGGCTTTCACGTGAGG
 TCACATAACTGCTTATCTCGTCAGGAATTTTGCAAGACCCTGGAGAGAAAACCAGATGG
 ACCAGTGGGAAAGGCCCCCTTGCAAGTTGCTGCTTTTTGTTCTTAGTGAAGATCAAA
 AAGGAGCGTGAGGCTAGGCGTGGTGGCCATGCCTGTAATCCCAGCACTGTGGGAGGCTG
 AAGCAGGCACATCATTTGAGGTCAGGGGTTTGGAGCAGCCTGGCCAACATGGTGAAC
 CTGTCTCTACTAAAAATACAAAAATTATTTGGGTGGTGGCGGGCACCTGTGTCCTCCAG
 CTACTGGGGAAGCTGAAGCAAGAGAATCCCTTGACCATGGAAGCGGAGGCTCGCATGAG
 CAGGGATTTCTACTGACTTCAGCCTGGCCACAGAACCAGACTCCCTTTAAAAAACACA
 AACCAAAACCACTTTGAAGGTTGCGCCGGATCACATGGAAGGTGCCTTTTTCGGCCCTG
 TTCTTGGGCCCGGACTTAAACCTCCAAGGTGCCTGCTCTGCCGCGGTTCTTCCCGGCAT
 CCCAGGGGAATCGGCTTTTTCTTACCTAGGAACCCAGGGGCTTCTGCCCTCCCTTC
 CAGGTCCCGGTTTCTTCTCTGCTTTGCCCTCTCCGAACGAGTACCGCCGCTCCCTT
 CCTTCCCTTCGTTCCCGCCATTTCCCCCCCCCTTCCCTTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_024022

Insert Size:

2550 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).

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_024022.1](#), [NP_076927.1](#)

RefSeq Size: 2468 bp

RefSeq ORF: 1365 bp

Locus ID: 64699

UniProt ID: [P57727](#)

Cytogenetics: 21q22.3

Domains: SR, Tryp_SPc, ldl_recept_a

Protein Families: Druggable Genome, Protease, Transmembrane

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]
Transcript Variant: This variant (A) encodes the longest isoform (1).