

Product datasheet for **SC316502**

TMPRSS3 (NM_032405) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMPRSS3 (NM_032405) Human Untagged Clone
Tag: Tag Free
Symbol: TMPRSS3
Synonyms: DFNB8; DFNB10; ECHOS1; TADG12
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_032405 edited
GGAAAGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTG
CCATCTACATTTTTGGGACTCGGAATTATGAGGTAGAGGTGGAGCGGAGCCGGATGTC
AGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCTTC
TCATTCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCA
GATGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTCCAATCATCGTC
ATTGGGATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATCCACTTCGACTGC
TCAGGGAAGTACAGATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGAC
GGAGTCTCGGATTGCAAAGACGGGGAGGACGAGTACCGCTGTGTCGGGTGGGTGGTCAG
AATGCCGTGCTCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGG
AAGGGTCACTACACAAATGTTGCCTGTGCCCACTGGGTTTCCCAAGCTATGTGAGTTCA
GATAACCTCAGAGTGAGCTCGCTGGAGGGCAGTTCGGGAGGAGTTTGTGTCCATCGAT
CACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGTATATGTGAGGGAGGGA
TGTGCCTCTGGCCACGTGGTTACCTTGCACTGCACAGCCTGTGGTCATAGAAGGGGCTAC
AGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCTCGAGTGGCCCTGGCAGGCCAGC
CTTCAGTTCAGGGCTACCACCTGTGCGGGGGCTCTGTCACTACGCCCTGTGGATCATC
ACTGCTGCACACTGTGTTTATGACTTGTACCTCCCAAGTCATGGACCATCCAGTGGGT
CTAGTTTTCCCTGTTGGACAATCCAGCCCCATCCCACTTGGTGGAGAAGATTGTCTACCAC
AGCAAGTACAAGCCAAAGAGGCTGGGCAATGACATCGCCCTTATGAAGCTGGCCGGGCCA
CTCAGTTCAATGGTACATCTGGGTCTCTATGTGGTTCTGCAGCTTTCCTTTGTTTCAA
GAGGATTTGCAATTGCTCATTGAAGCATTCTTATGATCTAGATT



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032405 unedited GGGCTCCTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGGCACGAGGGGAAAGGGCT GTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACAT TTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTG AAATAGTACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGAT CGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGCTGTTG CTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTCCAATCATCGTCATTGGGATCA TTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATCCACTTCGACTGCTCAGGGAAGT ACAGATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACGGAGTCTCGG ATTGCAAAGACGGGGAGGACGAGTACCGCTGTGTCCGGTGGTGGTGCAGAAATGCCGTGC TCCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACT ACACAAATGTTGCCTGTGCCAACTGGGTTTCCAAGCTATGTGAGTTCAGATAACCTCA GAGTGAGCTCGTGGAGGGCAGTTCGGGAGGAGTTTGTGTCCATCGATCACCTTTGC CAGATGACAAGGTGACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTG GCCACGTGGTTACCTTGCACTGACAGCCTGTGGTCATAGAAGGGCTACAGCTCACGCAT CGTGGGTGGAAACATGTCTTGGCTCTCGAGTGGCCCTGGCAGGCCAGCCTTCAGTTTCA GGGCTACCACCTGGTGGGGGGCTTCTGTATACGCCCTGTGTGGATTTCATCACCTG CTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032405 unedited GGTTCGCGAGATGCTGAGATGCACTTCAGGCCGGAAGCACTGGGGAAGGGTCACAGGGAT GCCCCCGGATCTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGATCATAAGAAT GCTTCAATGAGCAATTGCAAATCCTCTTGAACAAAGGAAGAGCTGCAGAACCACATAGA GACCCAGATGTACCATTGAACGTGAGTGGCCCGCCAGCTTCATAAGGGCGATGTATTG CCCAGCCTCTTTGGCTTGTACTTGTGTGGTAGACAATCTTCCACCAAGTGGGATGGG GCTGGATTGTCCAACAGGGAACTAGACCCACCTGGATGGTCCATGACTTGGGGAGGTAC AAGTCATAAACACAGTGTGCAGCAGTGTATCCACAGGGCGTGTGACAGAGCCCCCG CACAGGTGGTAGCCCTGGAAGTGAAGGCTGGCCTGCCAGGGCCACTGCGAGAGCAAGGAC ATGTTTCCACCCACGATGCGTGAGCTGTAGCCCCTTCTATGACCACAGGCTGTGCACTGC AAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACATATACTGAGTGGTGTAAATGCA GTACCTTGTCTGCAAGAGGTGATCGATGGACACAACTCCTCCCGAACTGCCCC TCCAGCGAGCTCACTCTGAGTTATCTGAACTCACATAGCTTGGGAAACCCAGTTGGGCA CAGGCAACATTTGTGTAGTGACCCTTCCAGTCATCGGAGCACATGGTCTTCCACGAAGCA GCTGTGAACACCTGGAGCACGGCATTCTGACCACCCACCCGGACACAGCGGTAATCGTC CTCCCGTCTTTGCAATCCGAGACTCCGTACCATCGAGCTATCAGCTCGATACACTTAA GGATGAGCGACATCTGTACTTCCCTGAGCAGTCCA
Restriction Sites:	Please inquire
ACCN:	NM_032405
Insert Size:	1200 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:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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_032405.1](#), [NP_115781.1](#)

RefSeq Size: 1359 bp

RefSeq ORF: 1035 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 (D) lacks several 3' exons, but includes an alternate 3' exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant A. The encoded isoform (3) has a distinct and shorter C-terminus, compared to isoform 1.