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Product datasheet for SC110610

TMPRSS3 (NM_032401) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS3 (NM_032401) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMPRSS3
Synonyms:	DFNB8; DFNB8, DFNB10, ECHOS1, TADG12; DFNB10; ECHOS1; OTTHUMP00000109345; serine protease TADG12; TADG12; transmembrane protease, serine 3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC110610 sequence for NM_032401 edited (data generated by NextGen Sequencing)

ATGTGCTCCGATGACTGGAAGGGTCACTACRCAAATGTTGCCTGTGCCCAACTGGGTTTC
CCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGCAGTTCCGGGAG
GAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCA
GTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCCTGT
GGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCCTTGCTCTCGCAG
TGGCCCTGGCAGGCCAGCCTTCAGTTCCAGGGCTACCACCTGTGCGGGGGCTCTGTCATC
ACGCCCCTGTGGATCATCACTGCTGCACACTGTGTTTATGACTTGTACCTCCCCAAGTCA
TGGACCATCCAGGTGGGTCTAGTTTCCCTGTTGGACAATCCAGCCCCATCCCACTTGGTG
GAGAAGATTGTCTACCACAGCAAGTACAAGCCAAAGAGGCTGGGCAATGACATCGCCCTT
ATGAAGCTGGCCGGGCCACTCACGTTCAATGAAATGATCCAGCCTGTGTGCCTGCCCAAC
TCTGAAGAGAACTTCCCCGATGGAAAAGTGTGCTGGACGTCAGGATGGGGGGCCACAGAG
GATGGANNNGGTGACGCCTCCCCTGTCCTGAACCACGCGGCCGTCCCTTTGATTTCCAAC
AAGATCTGCAACCACAGGGACGTGTACGGTGGCATCATCTCCCCCTCCATGCTCTGCGCG
GGCTACCTGACGGGTGGCGTGGACAGCTGCCAGGGGGACAGCGGGGGGCCCCTGGTGTGT
CAAGAGAGGAGGCTGTGGAAGTTAGTGGGAGCGACCAGCTTTGGCATCGGCTGCGCAGAG
GTGAACAAGCCTGGGGTGTACACCCGTGTCACCTCCTTCCTGGACTGGATCCACGAGCAG
ATGGAGAGAGACCTAAAAACCTGA

Clone variation with respect to NM_032401.1
31 g=>r;667 g=>n;668 c=>n;669 a=>n

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032401 unedited
NGGTTCANATTATGTATACGACTCCTATAGGCGGCCGGATTGGCCGAGGGAAGGGCTGTG
TTTATGGGAAGCCAGTACACTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTT
GGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAAT
AGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCGCT
TTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGC
ACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTCCAATCATCGTCATTGGGATCATTGC
ATTGATATTAGCACTGGCCATTGGTCTGGGCATCCACTTCGACTGCTCAGGGAAGTACAG
ATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACGGAGTCTCGGATTG
CAAAGACGGGGAGGACGAGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCA
GGTGTTCACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACAC
AAATGTTGCCTGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCCTCAGAG
TGAGCTCGCTGGAGGGGCAGTTCCGGGAGGAGTTTGTGTTCATCGATCACCTCTTGCCAG
ATGAACAGGGTGACTGCATTACACCACTCCATATATGTGAGGGAAGGGATGTGCCTCTGG
CCCACGTGTTTCACCTGCAGTGCACAGCCTGTGGTCATAACAACGCCTACCGCTCACGCA
TCCGGGGTGGAAACATGTTCCTTCTCCTCGCATGGCCCTGGCAGGCCACCCTCTCATTCC
AGGCTACCCCCTGGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032401 unedited
CTATGGAACGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTGAGGGAAGGA
AACATATTATTTGGAATCAAGGGCAATAATACGTCAAGCACCAAATGCTACAAAGAAATC
ATGAAAATAGGCCTTAAACGAGTCATTCCTAGATTAACCTCCCCACATGTGAAAATAAGT
CTTGGAAGTAGAAAGGGTGGGTTTGGTTCTGGTCCCTAGAGATGAAAACGTGCAGTGACT
GCAGTTCTGCACTTCTGGGCTGGTGCGTCTTTTCTGAGTGGCTGTTGGTGGCTTTGCACG
TGAGGTCACATAACTGCTTATCTCGTCAGGAATTTTGCAAGACCCTGGAGAGAAAACCAG
ATGGACCAGTGGGAAAGGCCGCCCTTGCAAGTTGCTGCTTCTTTTGTTCTTAGTGAAGAT
CAGAAAGGAGCGTGAGGCTAGGCGTGGTGGCCCATGCCTGTAATCCCAGCACTGTGGGAG
GCTGAAGCAGGCACATCATTTGAGGTCAGGGGTTTGAGAGCAGCCTGGCCAACATGGTGA
AACCCTGTCTCTACTAAAAATACAAAAATTAGTTGGGTGTGGTGGCGGGCACCTGTGGTC
CCAGCTACTGGGGAAGCTGAGGCAAGAGAATCGCTTGAACCAGGGAAGCGGAGGCTGCAG
TGAGCAGGNATTTCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCACCTCAAA
AAACAAAAAACAAAAAGCAGCTTGAAAGCTGTGCTGGAATCAAATGGAAGGGTGCCTCTT
TCGGGCCTGCTACTGGTGCCCGGACTCANAGCTCCAAGGTTGTCTGCTCGTGTGCAGGTT
CCTCCCCGGAGTCCACGGGAGGAATCGGCTGGCTTCTCACCTCAGAACCAGGTGGCTACT
TGCCCCCTCCTCTTCAGGTTTTAGGGCTCCTCCTCTGCCGCGGTCCAGCCAGAAGGAGGG
ACCGGTTTCACCCAGCCTGGTACCTTGGCC

Restriction Sites: NotI-NotI

ACCN: NM_032401

Insert Size: 2290 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032401.1, NP_115777.1
RefSeq Size:	2554 bp
RefSeq ORF:	984 bp
Locus ID:	64699
Cytogenetics:	21q22.3
Domains:	Tryp_SPc
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 (B) lacks exons 1 and 2, but contains 384 nt of intron 2 preceding exon 3, possibly through the use of an alternative splice donor site. As a result, this variant lacks the exon 2 start codon and translation begins at a downstream in-frame start codon. The encoded protein has a 127 aa shorter N-terminus, as compared to isoform 1, and is identical to the protein encoded by variant C.