

Product datasheet for RC224957

TMPRSS3 (NM_032401) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS3 (NM_032401) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMPRSS3
Synonyms:	DFNB8; DFNB8, DFNB10, ECHOS1, TADG12; DFNB10; ECHOS1; OTTHUMP00000109345; serine protease TADG12; TADG12; transmembrane protease, serine 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224957 representing NM_032401 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCCAACTGGGTTTCCCAAGCTATG
TGAGTTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGGAGTTCCGGGAGGAGTTTGTGTCCATCGATCA
CCTCTTGCCAGATGACAAGGTGACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGC
CACGTGGTTACCTTGCAAGTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGAA
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TGGACCATCCAGGTGGTCTAGTTTCCCTGTTGGACAATCCAGCCCCATCCCACTTGGTGGAGAAGATTG
TCTACCACAGCAAGTACAAGCCAAAGAGGCTGGGCAATGACATCGCCCTTATGAAGCTGGCCGGGCCACT
CACGTTCAATGAAATGATCCAGCCTGTGTGCCTGCCAACTCTGAAGAGAACTTCCCCGATGGAAAAGTG
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CCGTCCCTTTGATTTCCAACAAGATCTGCAACCACAGGGACGTGTACGGTGGCATCATCTCCCTCCAT
GCTCTGCGCGGGTACCTGACGGGTGGCGTGGACAGCTGCCAGGGGGACAGCGGGGGGCCCTGGTGTGT
CAAGAGAGGAGGCTGTGGAAGTTAGTGGAGCGACAGCTTTGGCATCGGCTGCGCAGAGGTGAACAAGC
CTGGGGGTACACCCGTGCACCTCCTTCTGGACTGGATCCACGAGCAGATGGAGAGAGACCTAAAAAC
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224957 representing NM_032401
 Red=Cloning site Green=Tags(s)

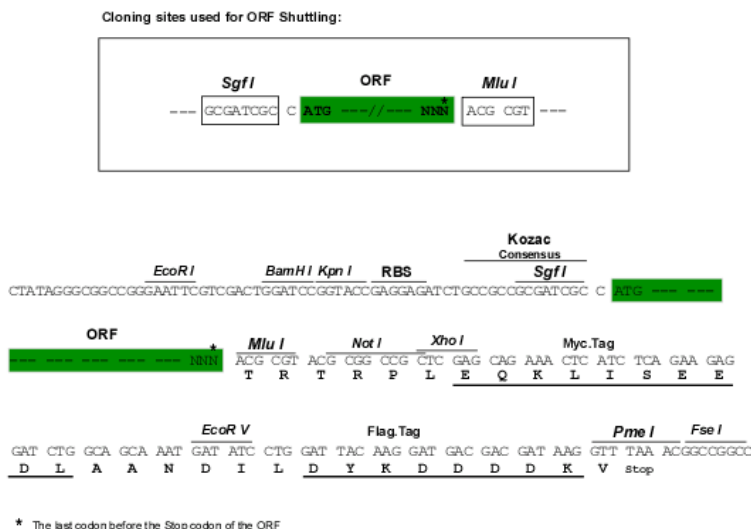
MCSDDWKGHYANVACAQLGFPSYVSSDNLRVSSLEGQFREEFVSIHLLPDDKVTALHHSVYVREGCASG
 HVVTLQCTACGHRRGYSSRIVGGNMSLLSQWPWQASLQFQGYHLCGGSVITPLWIITAHCVYDLYLPKS
 WTIQVGLVSLLDNPAPSHLVEKIVYHSKYKPKRLGNDIALMKLAGPLTFNEMIQPVCLPNSEENFPDGKV
 CWTSGWGATEDGAGDASPVLNHAAPPLISNKICNHRDVYGGIISPSMLCAGYLTTGGVDSCQGDSSGGLVC
 QERRLWKLVGATSFYGICAEVKNKPGVYTRVTSFLDWIHEQMERDLKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6379_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032401

ORF Size: 981 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_032401.1](#), [NP_115777.1](#)

RefSeq Size: 2554 bp

RefSeq ORF: 983 bp

Locus ID: 64699

Cytogenetics: 21q22.3

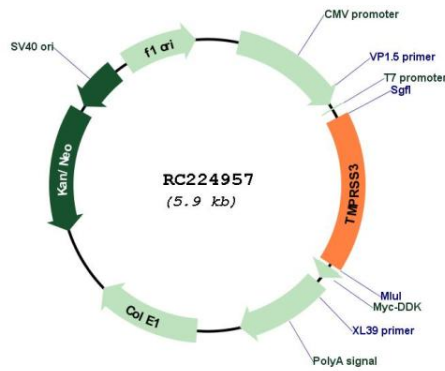
Domains: Tryp_SPc

Protein Families: Druggable Genome, Protease, Transmembrane

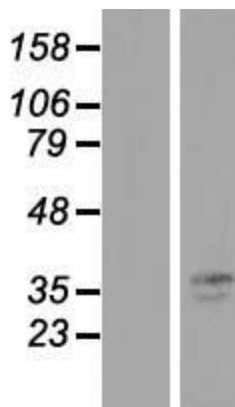
MW: 36.2 kDa

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]

Product images:



Circular map for RC224957



Western blot validation of overexpression lysate (Cat# [LY410142]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224957 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).