

Product datasheet for **RG210403**

TMPRSS3 (NM_024022) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS3 (NM_024022) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMPRSS3
Synonyms:	DFNB8; DFNB10; ECHOS1; TADG12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210403 representing NM_024022
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCGCTTTTTGGCCTTGATGATT
 TGAATAAAGTCCTGTTGCACCAGATGCAGATGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAA
 GTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATCCAC
 TTCGACTGCTCAGGGAAGTACAGATGTCGCTCATCCTTTAAGTGTATCGAGCTGATAGCTCGATGTGACG
 GAGTCTCGGATTGCAAAGACGGGAGGACGAGTACCGCTGTGTCCGGTGGTGGTGAAGTCCGCTGCT
 CCAGGTGTTACAGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGAAATGTT
 GCCTGTGCCAACTGGGTTCCCAAGCTATGTAAGTTCAGATAACCTCAGAGTGAAGTCCGCTGGAGGGGC
 AGTTCCGGGAGGAGTTTGTGTCATCGATCACCTTTGCCAGATGACAAGGTGACTGCATTACACCACTC
 AGTATATGTGAGGAGGGATGTGCTCTGGCCACGTGGTTACCTTGCAGTGCACAGCCTGTGGTCATAGA
 AGGGGCTACAGCTCACGCATCGTGGGTGGAACATGTCCTTGCTCTCGCAGTGGCCCTGGCAGGCCAGCC
 TTCAGTCCAGGGCTACCACCTGTGCGGGGCTCTGTCATCACGCCCTGTGGATCATCACTGCTGCACA
 CTGTGTTTATGACTTGTACCTCCCAAGTCATGGACCATCCAGGTGGGTCTAGTTTCCCTGTTGGACAAT
 CCAGCCCCATCCCACTTGGTGGAGAAGATTGTCTACCACAGCAAGTACAAGCCAAAGAGGCTGGGCAATG
 ACATCGCCCTTATGAAGTGGCCGGGCCACTCACGTTCAATGAAATGATCCAGCCTGTGTGCTGCCAA
 CTCTGAAGAGAACTTCCCGATGGAAGTGTGCTGGACGTCAGGATGGGGGCCACAGAGGATGGAGGT
 GACGCCTCCCCTGTCTGAACCACGCGGCCCTCCCTTTGATTTCCAACAAGATCTGCAACCACAGGGACG
 TGTACGGTGGCATCATCTCCCCCTCCATGCTCTGCGCGGGTACCTGACGGGTGGCGTGGACAGCTGCCA
 GGGGACAGCGGGGGCCCTGGTGTGTCGAAGAGAGGAGGCTGTGGAAGTTAGTGGGAGCGACCAGCTTT
 GGCATCGCTGCCAGAGGTGAACAAGCCTGGGTGTACACCCGTGTACCTCCTTCTGGACTGGATCC
 ACGAGCAGATGGAGAGACCTAAAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210403 representing NM_024022
 Red=Cloning site Green=Tags(s)

MGENDPPAVEAPFSFRSLFGLDDLKISPVADADAVAAQILSLLPLKFFPIIVIGIIALILALAIGLGIH
 FDCSGKYRCRSSFKCIELIARCDGVSDCKDGEDEYRCVVRVGGQNAVLQVFTAASWKTMCSDDWKGHYANV
 ACAQLGFPSYVSSDNLRVSSLEGQFREEFVSIHLLPDDKVTALHHSVYVREGCASGHVVTLQCTACGHR
 RGYSSRIVGGNMSLLSQWPWQASLQFQGYHLCGGSVITPLWIIITAAHCYDLYLPKSWTIQVGLVSLLDN
 PAPSHLVEKIVYHISKYKPKRLGNDIALMKLAGPLTFNEMIQPVCLPNSEENFPDGKVCWTSWGATEDGG
 DASPVLNHAAPPLISNKICNHRDYYGGIISPSMLCAGYLTGGVDSQCQDSSGGLVCQERRLWKLVGATSF
 GIGCAEVNKPVGYYTRVTSFLDWIHEQMERDLKT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024022

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

RefSeq Size: 2468 bp

RefSeq ORF: 1365 bp

Locus ID: 64699

UniProt ID: [P57727](#)

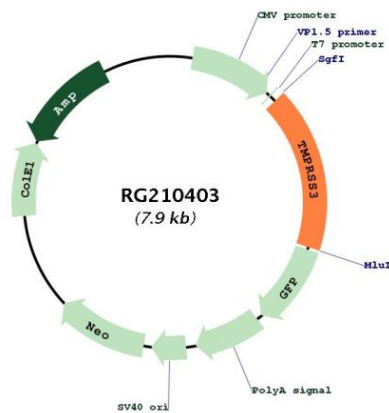
Cytogenetics: 21q22.3

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]

Product images:



Circular map for RG210403