

Product datasheet for **MR220685**

Tmprss3 (NM_080727) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss3 (NM_080727) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmprss3
Synonyms:	MGC130589
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR220685 representing NM_080727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGAGAATGACCTCCGGCAGCCGAAGCTCCCTTCTCCTTCGGTCTCTCTCGGCTTGGATGATT
 TGAATAAAGTCCTGTGGCACCAGATGGAGACGCAAGTGGCTGCGCAGATCTTGCCCTTCTGCCCTGAA
 GTTTTTCCGATCATCGTCATTGGGATCATCGCCTTGATACTGGCGCTGGCCATCGGTCTGGGCATCCAC
 TTCGACTGCTCTGGGAAGTACAGGTGCCATTCACTTTCAAGTGTATTGAACTAACAGCTCGATGCGACG
 GGGTCTCCGACTGCAAGAACGCAGAGGATGAGTACCGATGCGTGC GGTTGAGCGGCCAAAGAGCGGCGCT
 CCAAGTGTTCACAGCTGCTGCGTGGAGGACCATGTGCTCCGATGACTGAAAAGCCACTATGCCAAGATT
 GCCTGTGCCAGCTGGGTTTCCAGCTATGTGAGCTCAGACCACCTAAGAGTGGATGCGCTGGAGGAGC
 AGTTCCAGGGCGACTTCGTGTCCATCAATCACCTTTGTCAGATGACAAGGTGACGGCGTTACACCACTC
 TGTGTACATGAGGAAGGCTGCACCTCAGGCCACGTGGTACCTTGAAGTGTGCTCAGCTGTGGCAGGAGA
 ACGGGCTACAGTCCCGAATTGTGGGTGAAAACATGTCCTCGCTCACTCAGTGGCCCTGGCAGGTACGCC
 TCCAGTTCAGGGGTACCACCTATGTGGGGCTCCATCATCACCCCTCTGTGGATCGTCACTGCGGCACA
 CTGTGTTTATGACCTGTACCACCCAAGTCTGGACTGTCCAGGTGGGTCTTGTGTCCCTGATGGACAGT
 CCTGTGCCCTCCCATCTGGTGGAGAAAAATCATCTATCACAGCAAGTACAAGCCAAAGCGGCTGGCAATG
 ACATAGCCCTCATGAAGCTGTCCGAGCCACTCACCTTTGACGAGACCATCCAGCCCATCTGTCTGCCAA
 CTCTGAAGAGAACTTTCCCGATGGGAACTGTGCTGGACCTCAGGATGGGAGCCACAGAGGATGGAGGT
 GACGCCCTCCCCTGTCTGAACCACGCGGCTGTCCCTTAAATTTCAAACAAGATCTGCAACCACAGGGACG
 TGTATGGTGGTATCATCTCTCCCTCCATGCTCTGTGCAGGCTACCTGAAGGGCGGTGTGGACAGTGCCA
 GGGAGACAGTGGAGGACCCCTGGTGTGCCAGGAGAGGAGACTGTGGAAGTTAGTGGGTGCAACAAGTTTT
 GGAATCGGCTGTGCTGAAGTGAACAAGCCTGGAGTCTATACGCGAATCACCTCCTTCTGGACTGGATTC
 ACGAACAGTTGGAGAGAGATCTGAAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220685 representing NM_080727
 Red=Cloning site Green=Tags(s)

MGENDPPAAEAPFSFRSLFGLDDLKISPVAPDGDVAQAQILSLLPLKFFPIIVIGIIALILALAIGLGIH
 FDCSGKYRCHSSFKCIELTARCDGVSDCKNAEDEYRCVVRVSGQRAALQVFATAAWRTMCSDDWKSHEYAKI
 ACAQLGFPSYVSSDHLRVDAL EEQFQGFVVSINHLSDDKVTALHHSVYMREGCTSGHVVTLKCSACGTR
 TGYSRPIVGGNSSLTQWPWQVSLQFQGYHL CGGSIIITPLWIVTAAHCYVDLYHPKSWTVQVGLVSLMDS
 PVP SHLVEKIIYHSKYKPKRLGN DIALMKLSEPLTFDETIQPICLPNSEENFPDGKLCWTSWGATEDGG
 DASPVLNHA AVPLISNKICNHRDVYGGIISPSMLCAGY LKGGVDSCQGDSSGGLVCQERRLWKL VGATSF
 GIGCAEVNKP GYTRITSF LDWIHEQLERDLKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9029_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



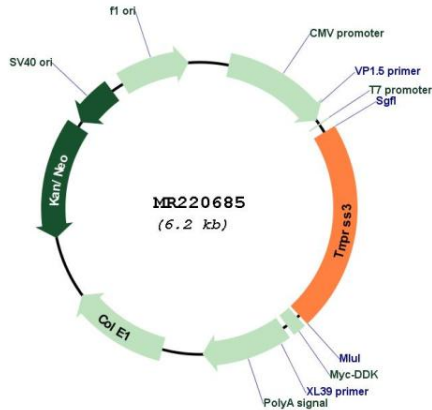
* The last codon before the Stop codon of the ORF

- ACCN:** NM_080727
- 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_080727.2](#), [NP_542765.2](#)
- RefSeq Size:** 2738 bp
- RefSeq ORF:** 1362 bp
- Locus ID:** 140765
- UniProt ID:** [Q8K1T0](#)
- Cytogenetics:** 17 A3.3

MW: 50 kDa

Gene Summary: Probable serine protease that plays a role in hearing. Acts as a permissive factor for cochlear hair cell survival and activation at the onset of hearing and is required for saccular hair cell survival. Activates ENaC (in vitro).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220685