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Product datasheet for MG220685

Tmprss3 (NM_080727) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss3 (NM_080727) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmprss3
Synonyms:	MGC130589
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG220685 representing NM_080727
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGAATGACCCTCCGGCAGCCGAAGCTCCCTTCTCCTTCCGGTCTCTCTTCGGCTTGGATGATT
TGAAAATAAGTCCTGTGGCACCAGATGGAGACGCAGTGGCTGCGCAGATCTTGTCCCTTCTGCCCTTGAA
GTTTTTTCCGATCATCGTCATTGGGATCATCGCCTTGATACTGGCGCTGGCCATCGGTCTGGGCATCCAC
TTCGACTGCTCTGGGAAGTACAGGTGCCATTCATCTTTCAAGTGTATTGAACTAACAGCTCGATGCGACG
GGGTCTCCGACTGCAAGAACGCAGAGGATGAGTACCGATGCGTGCGGGTGAGCGGCCAAAGAGCGGCGCT
CCAAGTGTTCACAGCTGCTGCGTGGAGGACCATGTGCTCCGATGACTGGAAAAGCCACTATGCCAAGATT
GCCTGTGCCCAGCTGGGGTTTCCCAGCTATGTGAGCTCAGACCACCTAAGAGTGGATGCACTGGAGGAGC
AGTTCCAGGGCGACTTTGTGTCCATCAATCACCTCTTGTCAGATGACAAGGTGACGGCGTTACACCACTC
TGTGTACATGAGGGAAGGCTGCACCTCAGGCCACGTGGTCACCTTGAAGTGCTCAGCCTGTGGCACGAGA
ACGGGCTACAGTCCCCGAATTGTGGGTGGAAACATGTCCTCGCTCACTCAGTGGCCCTGGCAGGTCAGCC
TCCAGTTCCAGGGGTACCACCTATGTGGGGGCTCCGTCATCACCCCTCTGTGGATCGTCACTGCGGCACA
CTGTGTTTATGACCTGTACCACCCCAAGTCCTGGACTGTCCAGGTGGGTCTTGTGTCCCTGATGGACAGT
CCTGTGCCCTCCCATCTGGTGGAGAAAATCATCTATCACAGCAAGTACAAGCCAAAGCGGCTGGGCAATG
ACATAGCCCTCATGAAGCTGTCCGAGCCACTCACCTTTGATGAGACCATCCAGCCCATCTGTCTGCCCAA
CTCTGAAGAGAACTTTCCCGATGGGAAACTGTGCTGGACCTCAGGATGGGGAGCCACAGAGGATGGAGGT
GACGCCTCCCCTGTCCTGAACCACGCGGCTGTCCCTTTAATTTCAAACAAGATCTGCAACCACAGGGACG
TGTATGGTGGTATCATCTCTCCCTCCATGCTCTGTGCAGGCTACCTGAAGGGCGGTGTGGACAGCTGCCA
GGGAGACAGTGGAGGACCCCTGGTGTGCCAGGAGAGGAGACTGTGGAAGTTAGTGGGTGCAACAAGTTTT
GGAATCGGCTGTGCTGAAGTGAACAAGCCTGGAGTCTATACGCGAATCACCTCCTTCCTGGACTGGATTC
ACGAACAGTTGGAGAGAGATCTGAAGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

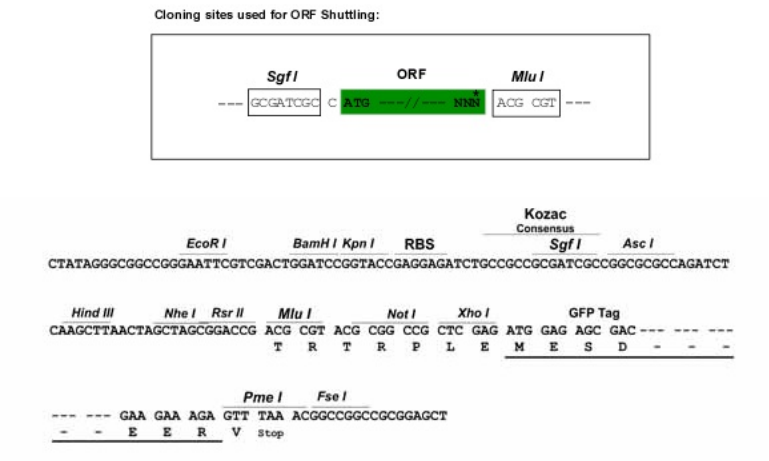
>MG220685 representing NM_080727
Red=Cloning site Green=Tags(s)

MGENDPPAAEAPFSFRSLFGLDDLKISPVAPDGDAVAAQILSLLPLKFFPIIVIGIIALILALAIGLGIH
FDCSGKYRCHSSFKCIELTARCDGVSDCKNAEDEYRCVRVSGQRAALQVFTAAAWRTMCSDDWKSHYAKI
ACAQLGFPSYVSSDHLRVDALEEQFQGDFVSINHLLSDDKVTALHHSVYMREGCTSGHVVTLKCSACGTR
TGYSPRIVGGNMSSLTQWPWQVSLQFQGYHLCGGSVITPLWIVTAAHCVYDLYHPKSWTVQVGLVSLMDS
PVPSHLVEKIIYHSKYKPKRLGNDIALMKLSEPLTFDETIQPICLPNSEENFPDGKLCWTSGWGATEDGG
DASPVLNHAAVPLISNKICNHRDVYGGIISPSMLCAGYLKGGVDSCQGDSGGPLVCQERRLWKLVGATSF
GIGCAEVNKPGVYTRITSFLDWIHEQLERDLKT

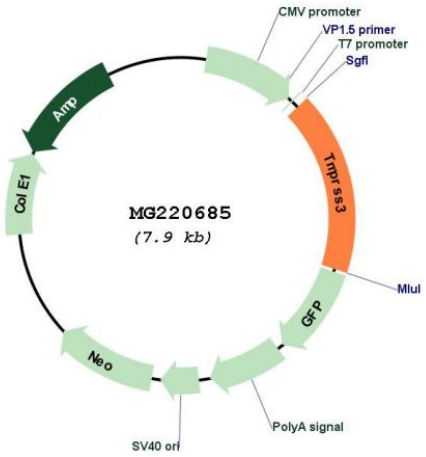
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]