

Product datasheet for **MG225414**

Tmprss7 (NM_172455) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss7 (NM_172455) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmprss7
Synonyms:	B230219I23Rik; Gm1748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG225414 representing NM_172455
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATAAAGAAAAAGTGATCCTTCTCGCAAGTCTCAGACCTCAAATATCCAACATCTCCATCCAGG
TGGTCAGTGTCCCAGGAAGCTACCAGGGAGAAGACCACCTCGAAAACCCATTGGCAAACCCAGGCCCG
CAAGCAGCCTAAGAAGAGAGCTCCCTTTTGAATGTTCAAATAAGATTATTCTCTTACAGTGTTTTTA
TTCATTCTGGCAGTCACAGCCTGGACACTTCTATGGCTCTACATCAGTAAGACAGAGAGCAAAGATGCTT
TTTATTTTGTGGAAATGTTCCGCATCACCAACATTGAGTTCCTTCTGAGTACCGGCAGAAGGAGTCTAG
GGAATTTCTCCATGGCAAAGACAGTACAGCAAGTGGTAAACCTTGTATACAACATCTGCTTTCTCC
AAATTTTATAAGCAGTCTGTGGTGCAGACGTACAGCAGTAAACAACAAGGCGGTCTCTGGTCCACTTTT
GGATTGTGTTTGTATGCCACATGCCAAGGGCCACATCTTCTGTGAGGAGTGTGTGGCGCCATCTTGAA
GGACTCCATTCAAACCAGTATCATAAACCGCACTTCTGTGGGGAGCTTGCAGGGTCTGGCTGTGGATATG
GACTCTGTGGTATTAAATGCTGGGCTCCGGTACAGTACTCTTACAGCTGTAGGATCTGACAACGGCTGCT
CCCGGTACTTGTATGCAGACCATCTGACCTCCGCTACCCTCTGGAGATTTCCGCAACCTCGGGACAAC
AATGTGTCACTTCAAGTTGGTGGCCATCGTGGTTATCTGATTCTCTCCATTGAATCCATCCAATTG
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TATACAGAATCTGTGAACCCACAAGAACAATAATGTCTTCGTTTCTACAATAATCTCATGTTGGTGAT
ACTGAAGTCTCCTTATGTGCGAAGGCTGGCAGGGATCCGAGCATATTTTGAAGTCATTCCAGAACAAAA
TGTGAAAGCACAATACTGGTCAAGGAAATCAACAGCTTTGAGGGGAAAACTCAAGTCCGTATTACCCAA
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GAAATTTCTACAACCTATCCATAACTAAGAAGAGTGCAAAAAGGCTGTGAGCACGGCTGGTGGGAGATTAAT
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TCCAGCTCCAATGCAGTTCAGGCTTTTCCAGACAAGCCACTCTTGGTAGAATATGGCGTTACAACATCAG
TCAACCGTGTCTGCAGGATCTTTTAGGTGCTCCTCCGGTTTGTGTGCTCCTCAGGCCAGCGTTGTGAC
GGAGTGAATGACTGTTTCGACGAAAGTATGAACCTTTCTGTGTGACTGTAAAACCTGCCTGCAACAGCA
GCAGCTCCGGCAGCATGGCCCTCTGGTCTGTGATGGCTTCCGGGACTGCGAGGATGGTCCAGGACGAGCA
AAACTGCACTAGAAGCATCCCATGCACCAGTAGGACCTTAAATGTGGCAATGACATTTGCTTCAGGAAG
CAAAATGCACAATGTGATGGTATAGTGGACTGTCCAGATGGAAGTGACGAGGAAGGCTGCGGCTGTAGCA
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CAGCCTCACTTTGTTGGATCAGCCTACTGTGGTGCCTCAGTCACTCCAGGGAGTGGCTTCTCTCTGCA
GCCATTGTTTCCATGGAAACAGGCTGTCTGACCCACGCCATGGACTGCTCACCTTGGGATGTATGTGC
AGGGGAATGCCAAGTTTATCTCTCCAGTGAAGGATTGTGGTCCATGAATACTACAACAGCCAGACTTT
TGACTATGACATTGCCTTGTGTCAGTCAAGTATGCTGGCTGAAACCTGAAACAGCTCATTCAACCA
ATATGCATTCTCCAGCGGGCCAGAAAGTGCAGTGGGAGAAGTGTGGGTGACTGGCTGGGGAGAA
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CTGTGTTTCCACCTATGGGATCATCAGTGCAGTCTGTGTCAGGGGTTATGTCTGGCAAGAGCGAC
GCCTGCAAAGGAGATTCAGGAGGACCTTTGTCTTGTGCAAGAAAGAGTGTGGAATAATGGATTCTGACTG
GCATTGTTAGCTGGGACATGGATGTGGAAGACCAATTTTCTGGTGTCTACACAAGGGTGTCAAGCTT
TGTTCCCTGGATTCATAAGTATGTCCCTTCTTTTTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225414 representing NM_172455
 Red=Cloning site Green=Tags(s)

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MDKEKSDPSCKSSDLKISNISIQVVSVPGLPGRPPRPKPIGKPRPRKQPKKRPFWNVQNKIILFTVFL
FILAVTAWTLLWLYISKTESKDAFYFVGMFRITNIEFLPEYRQKESREFLSMAKTVQQVVNLVYTTSAFS
KFYKQSVVADVSSNKGGLLVHFWIVFVMPHAKGHIFCEEVAAILKDSIQTSIINRTSVGSLQGLAVDM
DSVVLNAGLRSDYSSAVGSDNGCSRYLYADHLTLRYPLEISATSGQLMCHFKLVAIVGYLIRLSIESIQL
EADNCITDSLTVYDSLPIRSAILYRICEPTRTLMSFVSTNNMLVILKSPYVRRLAGIRAYFEVIPEQK
CESTILVKEINSFEGKISSPYPSYPPKCKCTWTFQTSLSLTLGIALKFYNYSITKKSAGCEHGWEIN
EHMYCGSYMDHETIFRVPSPLVHIQLQCSSLSDKPLLVEYGGYNISQPCPAGSFRCSGLCVPQAQRCD
GVNDCFDESDELFCVTVKACNSSFQRQHGPLVCDGFRDCEGGQDEQNCTRSIPCTSRFTKCGNDICFRK
QNAQCDGIVDCPDGSDDEEGCGRSSSFLHRIVGGSDSQEGTWPVQVSLHFVGSAYCGASVISREWLLSA
AHCFHGNRLSDPTPWAHLGMYVQGNAKFISPVRRIVVHEYYNSQTFDYDIALQLSIWPELTKQLIQP
ICIPPAGQKVRSGEKCWVTGWGRRHEADSKGSPVLQQAELIDQTVCVSTYGIITSRMLCAGVMSGKSD
ACKGDSGGPLSCRKSDGKWILTGIVSWGHCGRPNFPGVYTRVSSFVPWIHKYVPSLL
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

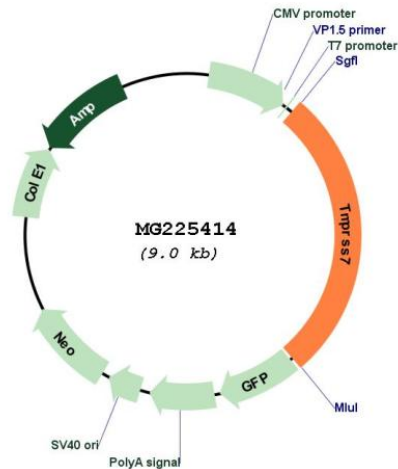
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:


ACCN: NM_172455

ORF Size: 2487 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_172455.3](#), [NP_766043.3](#)

RefSeq Size: 2585 bp

RefSeq ORF: 2490 bp

Locus ID: 208171

UniProt ID: [Q8BIK6](#)

Cytogenetics: 16 B5

Gene Summary: Serine protease which preferentially hydrolyzes peptides with Arg at the P1 position.
[UniProtKB/Swiss-Prot Function]