

Product datasheet for **MR225414**

Tmprss7 (NM_172455) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss7 (NM_172455) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmprss7
Synonyms:	B230219I23Rik; Gm1748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225414 representing NM_172455
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAAAGAAAAAGTGATCCTTCTCGCAAGTCTCAGACCTCAAATATCCAACATCTCCATCCAGG
 TGGTCAGTGTCCAGGAAGCTACCAGGGAGAAGACCACCTCGAAAACCCATTGGCAAACCCAGGCCCG
 CAAGCAGCCTAAGAAGAGAGCTCCCTTTTGAATGTTCAAATAAGATTATTCTCTTACAGTGTTTTTA
 TTCATTCTGGCAGTCACAGCCTGGACACTTCTATGGCTCTACATCAGTAAGACAGAGAGCAAAGATGCTT
 TTTATTTTGTGGAAATGTTCCGCATCACCAACATTGAGTTCCTTCTGAGTACCGGCAGAAAGGAGTCTAG
 GGAATTTCTCTCCATGGCAAAGACAGTACAGCAAGTGGTAAACCTTGTATACAACATCTGCTTTCTCC
 AAATTTTATAAGCAGTCTGTGGTGCAGACGTACAGCAGTAAACAACAAGGCGGTCTCTGGTCCACTTTT
 GGATTGTGTTTGTATGCCACATGCCAAGGGCCACATCTTCTGTGAGGAGTGTGTGGCGCCATCTTGAA
 GGACTCCATTCAAACAGTATCATAAACCGCACTTCTGTGGGAGCTTGCAGGGTCTGGCTGTGGATATG
 GACTCTGTGGTATTAAATGCTGGGCTCCGGTACAGTACTCTTACAGCTGTAGGATCTGACAACGGCTGCT
 CCCGGTACTTGTATGCAGACCATCTGACCTCCGCTACCCTCTGGAGATTTCCGCAACCTCGGGACAAC
 AATGTGCACTTCAAGTTGGTGGCCATCGTGGTTATCTGATTCTCTCCATTGAATCCATCCAATTG
 GAAGCCGACAACGTATCACCGACTCCCTGACTGTTTATGACTCCCTCTTGCCAAATCCGGAGTGCCATTC
 TATACAGAATCTGTGAACCCACAAGAACAATAATGTCCTTCGTTTCTACAATAATCTCATGTTGGTGAT
 ACTGAAGTCTCCTTATGTGCGAAGGCTGGCAGGGATCCGAGCATATTTTGAAGTCATTCCAGAACAAAA
 TGTGAAAGCACAATACTGGTCAAGGAAATCAACAGCTTTGAGGGGAAAACTCAAGTCCGTATTACCCAA
 GTTACTTCCCTCGAAATGCAAGTGCACCTGGACATTCCAGACTTCCCTATCAACTCTCGCATAGCCCT
 GAAATTTCTACAACATATCCATAACTAAGAAGAGTGCAAAAAGGCTGTGAGCACGGCTGGTGGGAGATTAAT
 GAACACATGTACTGCGGCTCCTACATGGATCATGAGACATTTTCCGGGTGCCAGCCCCCTGGTCCACA
 TCCAGCTCCAATGCAGTTCAGGCTTTAGAGACAAGCCACTCTTGGTAGAATATGGCGTTACAACATCAG
 TCAACCGTGTCTGCAGGATCTTTAGGTGCTCCTCCGGTTTGTGTGCTCCTCAGGCCAGCGTTGTGAC
 GGAGTGAATGACTGTTTCGACGAAAGTATGAACTTTTCTGTGTGACTGTAAAACCTGCCTGCAACAGCA
 GCAGTTCGGCAGCATGGCCCTCTGGTCTGTGATGGCTTCCGGGACTGCGAGGATGGTCAGGACGAGCA
 AAAGTGCAGTGAAGCATCCCATGCACCAGTAGGACCTTAAATGTGGCAATGACATTTGCTTCAGGAAG
 CAAAATGCACAATGTGATGGTATAGTGGACTGTCCAGATGGAAGTACGAGGAAGGCTGCGGCTGTAGCA
 GGAGTTCTTCTTCCCTTACCAGATCGTTGGTGGTTCTGACTCCAGGAGGGGACCTGGCCATGGCAGGT
 CAGCCTCACTTTGTTGGATCAGCCTACTGTGGTGCCTCAGTATCTCCAGGGAGTGGCTTCTCTCTGCA
 GCCATTGTTTCCATGGAAACAGGCTGTCTGACCCACGCCATGGACTGCTCACCTTGGGATGTATGTGC
 AGGGGAATGCCAAGTTTATCTCTCCAGTGAAGGATTGTGGTCCATGAATACTACAACAGCCAGACTTT
 TGACTATGACATTGCCTTGTGTCAGTCTCAGCATAGCCTGGCTGAAACCCCTGAAACAGCTCATTCAACCA
 ATATGCATTCTCCAGCGGGCCAGAAAGTGCAGTGGGAGAAGTGTGGGTGACTGGCTGGGGAGAA
 GGCATGAAGCAGATAGTAAGGGCTCCCCGGTTTGCAGCAAGCGGAGGTAGAGCTCATAGATCAAACCGT
 CTGTGTTTCCACCTATGGGATCATCAGTCTGCGCATGCTGTGAGGGGTTATGTCTGGCAAGAGCGAC
 GCCTGCAAAGGAGATTCAGGAGGACCTTTGTCTTGTGCAAGAAAGAGTGTGGAATAATGGATTCTGACTG
 GCATTGTTAGCTGGGACATGGATGTGGAAGACCAATTTTCTGGTGTCTACACAAGGGTGTCAAGCTT
 TGTTCCCTGGATTCATAAGTATGTCCCTTCTCTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225414 representing NM_172455
Red=Cloning site Green=Tags(s)

MDKEKSDPSCKSSDLKISNISIQVVSVPGLPGRRPPRPKPIGKPRPRKQPKKRAPFVNVQNKIILFTVFL
FILAVTAWTLLWLYISKTESKDAFYFVGMFRITNIEFLPEYRQKESREFLSMAKTVQQVVNLVYTTSAFS
KFYKQSVVADVSSNNKGLLVHFWIVFVMPHAKGHIFCEEVAAILKDSIQTSIINRTSVGSLQGLAVDM
DSVVLNAGLRSDYSSAVGSDNGCSRYLYADHLTLRYPLEISATSGQLMCHFKLVAIVGYLIRLSIESIQL
EADNCITDSLTVYDSLPIRSAILYRICEPTRTLMSFVSTNNMLVILKSPYVRRLAGIRAYFEVIPEQK
CESTILVKEINSFEGKISSPYPSYPPKCKCTWTFQTSLSLTLGIALKFYNYSITKKSAGCEHGWEIN
EHMYCGSYMDHETIFRVPSPLVHIQLQCSSLSDKPLLVEYGGYNISQPCPAGSFRCSGLCVPQAQRCD
GVNDCFDESDELFCVTVKACNSSSFRQHGPLVCDGFRDCEGQDEQNCTRSIPCTSRFTKCGNDICFRK
QNAQCDGIVDCPDGSDDEEGCGRSSSFLHRIVGGSDSQEGTWPVQVSLHFVGSAYCGASVISREWLLSA
AHCFHGNRLSDPTPWAHLGMYVQGNAKFISPVRRIVVHEYYNSQTFDYDIALQLSIWPELTKQLIQP
ICIPPAGQKVRSGEKCWVTGWGRRHEADSKGSPVLQQAELIDQTVCVSTYGIITSRMLCAGVMSGKSD
ACKGDSGGPLSCRKSDGKWILTGIVSWGHCGRPNFPGVYTRVSSFVPWIHKYVPSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9097_g04.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



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

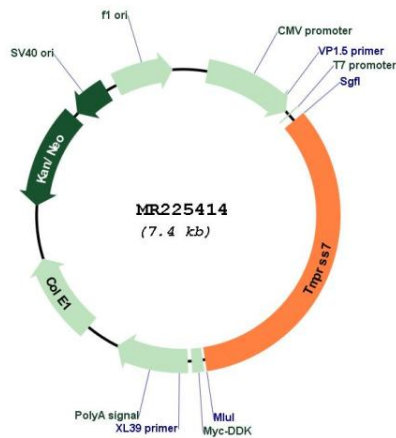
UniProt ID: [Q8BIK6](#)

Cytogenetics: 16 B5

MW: 92.6 kDa

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

Product images:



Circular map for MR225414