

## Product datasheet for **MR222240**

### St14 (NM\_011176) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St14 (NM_011176) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St14
Synonyms:	Epithin; matriptase; mCAP3; MT-SP1; Prss14; Tmprss14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR222240 representing NM\_011176  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTAGCAATCGGGCCGAAGGCCGAGGGGGCTCTCAGACTTCGGCGCGGGACTCAAGTACAAC  
 CCCGGCTAGAGAACATGAATGGCTTTGAGGAGGGTGTGGAGTTCCCTGCCTGCGAACAATGCCAAGAAAGT  
 GGAGAAGCGAGGCCCCAGGCGCTGGGTGGTGTGGTGGCAGTGTGTTACAGTTCCTCTTCTCCTCCTC  
 ATGGCTGGCTTGTGGTGTGGCACTTCCATTATCGGAATGTGCGGGTTCAAAAAGTCTTCAATGGCCATC  
 TGAGGATCACAAATGAGATCTTTCTGGATGCGTATGAGAATCCACCTCCACAGATTTATCAGCTGGC  
 CAGCCAGGTGAAGGAGGCGCTGAAGCTGCTGTACAATGAAGTCCCTGTCTGGTCCCTACCACAAGAAG  
 TCGGCTGTAACCTCAGTGAAGGCGAGTGCATCGCCTACTACTGGTCAGAGTTCAGCATCCCCCAC  
 ACCTGGCAGAAGAGGTTGATCGGCCATGGCTGTGGAGCGAGTTGAACATTGCCACCCCGAGCACGGGC  
 ACTGAAATCCTTCGTGCTAACATCTGTGGTGGCCTTCCCATTGACCCCAAGTGTGCAGAGGACTCAG  
 GACAACAGCTGCAGTTTTGCCCTGCATGCCATGGTGCAGCAGTACACGCTTCACTACCCCTGGCTTCC  
 CCAACAGTCCCTACCCGGCGCATGCCCGCTGCCAGTGGGTCTGCGGGGGGACGCCGACTCTGTGCTGAG  
 CCTCACCTTCCGAAGCTTTGATGTGCTCCCTGTGATGAGCATGGCAGTGACCTGGTCACCGTGTATGAT  
 AGCCTGAGCCCCATGGAACCCACGCTGTGGTGGCGGTGTGTGGCACCTTCTCACCTCCTACAACCTGA  
 CTTTCTCTCCTCCAGAAGCTTCTTCTGTGACGCTGATAACCAATACTGACCGGCGACATCCTGGCTT  
 TGAGGCCACTTTCTTCCAGCTGCCAAGATGAGCAGCTGTGGCGGCTTTTGGAGTACACCAAGGGACA  
 TTTAGCAGCCCTACTATCCAGGCCACTACCCGCCCAACATCAACTGCACATGGAATATCAAGGTGCCCA  
 ACAACCGGAACGTGAAGGTGCGCTTCAAACCTTCTATCTGGTGGACCCCAACGTACCAGTGGGCTG  
 CACCAAGGACTATGTGGAGATCAACGGGGAGAAGTACTGCGGTGAGAGGTCCAGTTTGTGGTGAGCAGC  
 AACAGCAGCAAGATTACAGTCCACTTCCATTCTGATCACTCGTACACGGACACCGGGTCTTAGCTGAGT  
 ACCTCTCTACGACTCCAACGACCCGTGCCAGGGATGTTGATGTGCAAGACTGGACGGTGCATCCGAAA  
 GGAAGTGCCTGCGACGGCTGGGACAGCTGCCCGGATTATAGTGTGAGCGTTACTGCCGATGCAATGCC  
 ACCCACCAGTTCACGTGCAAAAACCAAGTCTGCAAGCCCTTCTTGGGTCTGTGACAGTGTCAACGACT  
 GTGGGGACGGAAGTGACGAGGAGGGCTGCAGCTGTCTGCTGGGAGTTTCAAGTGTTCATGGGAAGTG  
 TCTCCCTCAGAGCCAGAAGTGAATGGGAAGGACAACGTGGAGATGGGTCTGACGAGGCTTCATGTGAC  
 AGCGTGAATGTCGTCTTTGCACCAATATACCTACCGCTGCCAAAATGGCCTCTGTCTGAGCAAGGGCA  
 ACCCTGAGTGTGATGGGAAGACGGACTGTAGCGATGGCTCCGATGAGAAAACTGTGACTGTGGGCTGCG  
 ATCCTTTACAAAACAGGCTCGCGTGGTGGTGGCAGCAATGCGGACGAGGGCGAGTGGCCCTGGCAGGTG  
 AGCCTCCACGCCCTGGGCCAGGGCCACTTGTGTGGGGCCTCGCTCATCTCTCTGACTGGCTGGTCTCTG  
 CAGCTCATTGCTTTCAGGATGACAAAAATTTCAAGTACTCAGACTACACGATGTGGACGGCTTCTGGG  
 TCTGCTGGACCAGAGCAAGCGCAGTGCCTCTGGGGTGCAGGAGCTGAAGCTCAAACGTATCATACCCAC  
 CCTTCTTCAATGATTTACCTTCGACTATGACATCGCCTTGTGGAGCTGGAGAAGTCGGTGGAGTACA  
 GCACCGCTCGTGCCTCCATCTGCCTGCCTGATGCTACCATGTCTTCCCTGCTGGCAAGGCCATCTGGGT  
 CACAGGCTGGGGGCACACAAAAGAGGGAGGTACCGGAGCGCTGATCCTGCAGAAGGGTGAATCCGTGTC  
 ATCAACCAGACCCTGTGAGGACCTCATGCCGACGAGATCACCCACGAATGATGTGTGGGTTTCC  
 TCAGTGGGGTGTGGACTCCTGCCAGGGTACTCTGGTGGCCCTTGTCAAGCGCGGAGAAAAGTGGGCG  
 AATGTTCCAGGCTGGTGTGGTGAAGTGTGGTGAAGGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACA  
 AGGCTCCCTGTAGTTCGGGACTGGATCAAAGAGCACACTGGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222240 representing NM\_011176  
 Red=Cloning site Green=Tags(s)

MGSNRGRKAGGGSQDFGAGLKYNSRLENMNGFEEGVEFLPANNAKKVEKRGPRRWVVLVAVLFSFLLL  
 SL MAGLLVWHFHYRNVRVQKVFNGHLRITNEIFLDAYENSTSTEFISLASQVKEALKLLYNEVPVLPYHKK  
 SAVTAFSEGSVIAYYWSEFSIPPHLAAEEVDRAMAVERVVTLPPRARALKSFVLTSVVAFPIDPRMLQRTQ  
 DNSCSFALHAHGAAVTRFTTPGFPNSPYAHARCQWVLRGDADSVLSLTFRSFDVAPCDEHGSDLVTVYD  
 SLSPMEPHAVVRLCGTFSPSYNLTFLLSSQNVFLVTLITNTDRRHGPF EATFFQLPKMSSCGGFLSDTQGT  
 FSSPYYPGHYPNINCTWNKVPNNRNKVRKLFYLVDPNVPVGSCTKDYEINGEKYCGERSQFVVS  
 NSSKITVHFHSDHSYTDTGFLAEYLSYDSNDPCPGMFMCKTGRCIRKELRCDGWADCPDYSDERYCNCNA  
 THQFTCKNQFCKPLFWCDSVNDCCGDSDEEGSCPAGSFKCSNGKCLPQSQKCNKDCGDSDEASCD  
 SVNVSCTKYTYRCQNGLCLSKGNPECDGKTDCSDGSDEKNDCGLRSFTKQARVVGGTNADEGEWPWQV  
 SLHALGQGHLCGASLISPDWLVSAAHCFQDDKNFKYSYDTMWT AFLGLLDQSKRSASGVQELKLRITITH  
 PSFNDFTFDYDIALLELEKSVEYSTVVRP ICLPDATHVFPAGKAIWVTGWGHTKEGGT GALILQKGEIRV  
 INQTTCEDLMPQQITPRMCMCVGFLSGGVDSCQGDSSGGPLSSAEKDGRMFQAGVVSWGEGCAQRNKP  
 GYVTRLPVVRDWIKEHTGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9012\\_g05.zip](https://cdn.origene.com/chromatograms/mm9012_g05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

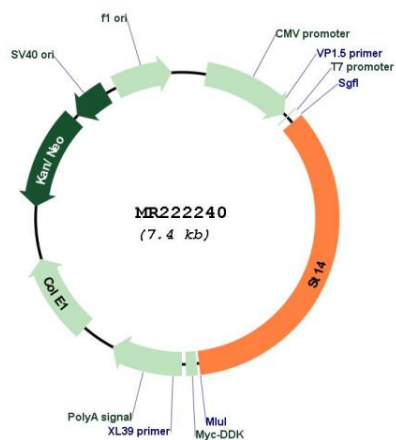
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_011176
<b>ORF Size:</b>	2565 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011176.4</a> , <a href="#">NP_035306.2</a>
<b>RefSeq Size:</b>	4017 bp
<b>RefSeq ORF:</b>	2568 bp
<b>Locus ID:</b>	19143
<b>UniProt ID:</b>	<a href="#">P56677</a>
<b>Cytogenetics:</b>	9 16.61 cM
<b>MW:</b>	95.1 kDa
<b>Gene Summary:</b>	Degrades extracellular matrix. Exhibits trypsin-like activity as defined by cleavage of synthetic substrates with Arg or Lys as the P1 site (By similarity). Involved in the terminal differentiation of keratinocytes through prostaticin (PRSS8) activation and filaggrin (FLG) processing (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222240