

## Product datasheet for **MC222151**

### **St14 (NM\_011176) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC222151 representing NM\_011176  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTAGCAATCGGGGCCAAGGCCGAGGGGGCTCTCAGACTTCGGCGCGGGACTCAAGTACAAC  
 CCCGGCTAGAGAACATGAATGGCTTTGAGGAGGGTGTGGAGTTCCCTGCCTGCGAACAATGCCAAGAAAGT  
 GGAGAAGCGAGGCCCCAGGCGCTGGGTGGTGTGGTGGCAGTGTGTTACAGTTCCTCTTCTCCTCCTC  
 ATGGCTGGCTTGTGGTGTGGCACTTCCATTATCGGAATGTGCGGGTTCAAAAAGTCTTCAATGGCCATC  
 TGAGGATCACAAATGAGATCTTTCTGGATGCGTATGAGAACTCCACCTCCACAGATTTATCAGCCTGGC  
 CAGCCAGGTGAAGGAGGCGCTGAAGCTGCTGTACAATGAAGTCCCTGTCTGGTCCCTACCACAAGAAG  
 TCGGCTGTAACCTCAGTGAAGGCGAGTGCATCGCCTACTACTGGTCAGAGTTCAGCATCCCCCAC  
 ACCTGGCAGAAGAGGTTGATCGGCCATGGCTGTGGAGCGAGTTGAACATTGCCACCCGAGCAGGGC  
 ACTGAAATCCTTGTGCTAACATCTGTGGTGGCCTTCCCATTGACCCCAAGTGTGCAGAGGACTCAG  
 GACAACAGCTGCAGTTTTGCCCTGCATGCCATGGTGCAGCAGTACACGCTTCACTACCCCTGGCTTCC  
 CCAACAGTCCCTACCCGGCGCATGCCCGTGCAGTGGGTCTGCGGGGGACGCCGACTCTGTGCTGAG  
 CCTCACCTTCCGAAGCTTTGATGTGCTCCCTGTGATGAGCATGGCAGTGACCTGGTACCCTGTATGAT  
 AGCCTGAGCCCCATGGAACCCACGCTGTGGTGGCGGTGTGTGGCACCTTCTCACCTCCTACAACCTGA  
 CTTTCTCTCCTCCAGAAGCTTCTTCTGTGACGCTGATAACCAATACTGACCGGCGACATCCTGGCTT  
 TGAGGCCACTTTCTTCCAGCTGCCAAGATGAGCAGCTGTGGCGGCTTTTGGAGTACACCAAGGGACA  
 TTTAGCAGCCCTACTATCCAGGCCACTACCCGCCCAACATCAACTGCACATGGAATATCAAGGTGCCCA  
 ACAACCGGAACGTGAAGGTGCGTTCAAACCTTCTATCTGGTGGACCCCAACGTACCAGTGGGCTCCTG  
 CACCAAGGACTATGTGGAGATCAACGGGGAGAAGTACTGCGGTGAGAGGTCCAGTTTGTGGTGAAGCAGC  
 AACAGCAGCAAGATTACAGTCCACTTCCATTCTGATCACTCGTACACGGACACCGGGTCTAGCTGAGT  
 ACCTCTCTACGACTCCAACGACCCGTGCCAGGGATGTTGATGTGCAAGACTGGACGGTGCATCCGAAA  
 GGAAGTGCCTGCGACGGCTGGGACAGCTGCCGGATTATAGTGATGAGCGTTACTGCCGATGCAATGCC  
 ACCCACCAGTTCACGTGCAAAAACAGTCTGCAAGCCCTTCTTGGTCTGTGACAGTGTCAACGACT  
 GTGGGGACGGAAGTGACGAGGAGGGCTGCAGCTGTCTGCTGGGAGTTTCAAGTGTTCATGGGAAGTG  
 TCTCCCTCAGAGCCAGAAGTGAATGGGAAGGACAACGTGGAGATGGGTCTGACGAGGCTTCATGTGAC  
 AGCGTGAATGTGCTCTTGCACCAATATACCTACCGCTGCCAAAATGGCTCTGTCTGAGCAAGGGCA  
 ACCCTGAGTGTGATGGGAAGACGGACTGTAGCGATGGCTCCGATGAGAAAACTGTGACTGTGGGCTGCG  
 ATCCTTTACAAAACAGGCTCGCGTGGTGGTGGCAGCAATGCGGACGAGGGCGAGTGGCCCTGGCAGGTG  
 AGCCTCCACGCCCTGGGCCAGGGCCACTTGTGTGGGGCCTCGCTCATCTCTCTGACTGGCTGGTCTCTG  
 CAGCTCATTGCTTTCAGGATGACAAAAATTTCAAGTACTCAGACTACACGATGTGGACGGCTTCTGGG  
 TCTGCTGGACCAGAGCAAGCGCAGTGCCTTGGGGTGCAGGAGCTGAAGCTCAAACGTATCATACCCAC  
 CCTTCTTCAATGATTTACCTTCGACTATGACATCGCCTTGTGGAGCTGGAGAAGTCCGTGGAGTACA  
 GCACCGCTCGTGCCTCCATCTGCCTGCCTGATGCTACCATGTCTTCCCTGCTGGCAAGGCCATCTGGGT  
 CACAGGCTGGGGGCACACAAAAGAGGGAGGTACCGGAGCGCTGATCCTGCAGAAGGGTGAATCCGTGTC  
 ATCAACCAGACCCTGTGAGGACCTCATGCCGACGAGATCACCCACGAATGATGTGTGTGGGTTTCC  
 TCAGTGGGGTGTGGACTCCTGCCAGGGTACTCTGGTGGCCCTTGTCAAGCGGGAGAAAAGTGGGCG  
 AATGTTCCAGGCTGGTGTGGTGAAGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACA  
 AGGCTCCCTGTAGTTCGGGACTGGATCAAAGAGCACACTGGGTA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011176  
**Insert Size:** 2568 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>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]