

Product datasheet for **MG222240**

St14 (NM_011176) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St14 (NM_011176) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St14
Synonyms:	Epithin; matriptase; mCAP3; MT-SP1; Prss14; Tmprss14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222240 representing NM_011176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTAGCAATCGGGGCCAAGGCCGAGGGGGCTCTCAGGACTTCGGCGCGGGACTCAAGTACAAC
 CCCGGCTAGAGAACATGAATGGCTTTGAGGAGGGTGTGGAGTTCCCTGCCTGCGAACAATGCCAAGAAAGT
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 TCGGCTGTAACCTCAGTGAAGGCGAGTGCATCGCCTACTACTGGTCAGAGTTCAGCATCCCCCAC
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 TCAGTGGGGTGTGGACTCCTGCCAGGGTACTCTGGTGGCCCTTGTCAAGCGCGGAGAAAGATGGGCG
 AATGTTCCAGGCTGGTGTGGTGAAGTGGGTTGAGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACA
 AGGCTCCCTGTAGTTCGGGACTGGATCAAAGAGCACACTGGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222240 representing NM_011176
Red=Cloning site Green=Tags(s)

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MGSNRGRKAGGGSQDFGAGLKYNRLNMGFEFVEFLPANNAKKVEKRGPRRWVVLVAVLFSFLLL  
MAGLLVWHFHYRNVVRVQKVFNGHLRITNEIFLDAYENSTSTEFISLASQVKEALKLLYNEVPV  
LGPYHKKSAVTAFSEGSVIAIYYWSEFSIPPHLAEEVDRAMAVERVVTLPPRARALKSFVLT  
SVVAFPIDPRMLQRTQDNCSFALHAHGAAVTRFTTPGFPNSPYPAHARCQWVLRGDADSVL  
SLTFRSFDVAPCDEHGSDLVTVYDSLSPMEPHAVVRLCGTFSPSYNLTFLLSSQNVFLVTL  
ITNTDRRHGPFEEATFFQLPKMSSCGGFLSDTQGTFSPPYYPGHYPNINCTWNIKVP  
NNRNKVRFKLFYLVDPNVPVGSCTKDYVEINGEKYCGERSQFVSSNSSKITVHFHSDH  
SYTDTGFLAEYLSYDSNDPCPGMFMCKTGRCIRKELRCDGWADCPDYSDERYCRCNA  
THQFTCKNQFCKPLFWVCDVNDGCGDSEEGCSCPAGSFKCSNGKCLPQSQKCNKDCG  
DGSDEASCDVNVVSCTKYTYRCQNGLCLSKGNPECDGKTDGSDGSEKNCDCGLRSFT  
KQARVVGGTNADEGEWPWQVSLHALGQGHLCGASLISPDWLVSAAHCFQDDKNFKYSDY  
TMWTAFLGLLDQSKRSASGVQELKLRITHPSFNDFTFDYDIALLELEKSVEYSTVVR  
PICLPDATHVFPAGKAIWVTGWGHTKEGGTGALILQKGEIRVINQTTCEDLMPQQIT  
PRMCMCVGFLSGGVDSCQGDSSGGLSSAEKDGRMFQAGVVSWEGEGCAQRNKPGVYT  
RLPVVRDWIKEHTGV
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_011176
ORF Size:	2565 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:	<ol style="list-style-type: none">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_011176.4 , NP_035306.2
RefSeq Size:	4017 bp
RefSeq ORF:	2568 bp
Locus ID:	19143
UniProt ID:	P56677
Cytogenetics:	9 16.61 cM
Gene Summary:	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]