

Product datasheet for **SC125523**

ST14 (NM_021978) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST14 (NM_021978) Human Untagged Clone
Tag:	Tag Free
Symbol:	ST14
Synonyms:	ARCI11; CAP3; HAI; MT-SP1; MTSP1; PRSS14; SNC19; TADG15; TMPRSS14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125523 sequence for NM_021978 edited (data generated by NextGen Sequencing)

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ATGGGGAGCGATCGGGCCCGCAAGGGCGGAGGGGGCCCGAAGGACTTCGGCGCGGGACTC
AAGTACAACCTCCCGGCACGAGAAAGTGAATGGCTTGGAGGAAGGCGTGGAGTTCTTGCCA
GTCAACAACGTCAAGAAGGTGAAAAGCATGGCCCGGGGCGCTGGGTGGTGTGCTGGCAGCC
GTGCTGATCGGCCTCCTCTTGGTCTTGTGTTGGGATCGGCTTCTGGTGTGGCATTTCGAG
TACCGGGACGTGCGGTGTCCAGAAGGTCTTCAATGGCTACATGAGGATCACAAATGAGAAT
TTTGTGGATGCCTACGAGAACTCCAACCTCACTGAGTTTGTAAAGCTGGCCAGCAAGGTG
AAGGACGCGCTGAAGCTGCTGTACAGCGGAGTCCCATTCCTGGGCCCTACCACAAGGAG
TCGGCTGTGACGGCCTTCAGCGAGGGCAGCGTCATCGCCTACTACTGGTCTGAGTTCAGC
ATCCCGCAGCACCTGGTGGAGGAGGCCGAGCGCGTCATGGCCGAGGAGCGCGTAGTCATG
CTGCCCCCGGGGCGGCTCCCTGAAGTCTTTGTGGTCACTCAGTGGTGGCTTTCCCC
ACGGACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACGCC
CGCGGTGTGGAGCTGATGCGCTTACCACGCCCGGCTTCCCTGACAGCCCCTACCCCGCT
CATGCCCGCTGCCAGTGGGCCCTGCGGGGGGACCGGACTCAGTGTGAGCCTCACCTTC
CGCAGCTTTGACCTTGCCTGCTGACGACGCGCGCAGCGACCTGGTGACGGTGTACAAC
ACCCTGAGCCCCATGGAGCCCCACGCCCTGGTGCAGTTGTGTGGCACCTACCCTCCCTCC
TACAACCTGACCTTCCACTCCTCCAGAACGTCCTGCTCATCACACTGATAACCAACACT
GAGCGGGCGCATCCCGGCTTTGAGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGCTGT
GGAGGGCCGCTTACGTAAGCCCAGGGGACATTCAACAGCCCCTACTACCCAGGCCACTAC
CCACCAACATTGACTGCACATGGAACATTGAGGTGCCAACAACCAGCATGTGAAGGTG
CGCTTCAAATTTCTACCTGCTGGAGCCCGGCGTGCCTGCGGGCACCTGCCCAAGGAC
TACGTGGAGATCAATGGGGAGAAATACTGCGGAGAGAGGTCCAGTTTCGTGTCACCCAGC
AACAGCAACAAGATCACAGTTCGCTTCCACTCAGATCAGTCTACACCGACACCCGGCTTC
TTAGCTGAATACCTCTCCTACGACTCCAGTGACCCATGCCCGGGGCGAGTTCACGTGCCGC
ACGGGGCGGTGTATCCGGAAGGAGCTGCGCTGTGATGGCTGGGCCGACTGCACCGACCAC
AGCGATGAGCTCAACTGCAGTTGCGACGCGGCCACCAGTTCACGTGCAAGAACAAGTTC
TGCAAGCCCCTCTTCTGGGTCTGCGACAGTGTGAACGACTGCGGAGACAACAGCGACGAG
CAGGGGTGCAGTTGTCCGGCCAGACCTTCAGGTGTTCCAATGGGAAGTGCCTCTCGAAA
AGCCAGCAGTGAATGGGAAGGACGACTGTGGGGACGGTCCGACGAGGCCTCCTGCCCC
AAGGTGAACGTGCTCACTTGTACCAACACACCTACCGCTGCCTCAATGGGCTCTGCTTG
AGCAAGGGCAACCCTGAGTGTGACGGGAAGGAGGACTGTAGCGACGGCTCAGATGAGAAG
GACTGCGACTGTGGGCTGCGGTCATTACGAGACAGGCTCGTGTGTTGGGGGCACGGAT
GCGGATGAGGGCGAGTGGCCCTGGCAGGTAAGCCTGCATGCTCTGGGCCAGGGCCACATC
TGCGGTGCTTCCCTCATCTCTCCAACCTGGCTGGTCTCTGCCGCACACTGCTACATCGAT
GACAGAGGATTCAAGTACTCAGACCCACGCGAGTGGACGGCTTCTGGGCTTGCACGAC
CAGAGCCAGCGCAGCGCCCCTGGGGTGCAGGAGCGCAGGCTCAAGCGCATCATCTCCCAC
CCCTTCTTCAATGACTTACCTTCGACTATGACATCGCGCTGCTGGAGCTGGAGAAACCG
GCAGAGTACAGTCCATGGTGCGGCCCATCTGCCTGCCGACGCCTCCCATGTCTTCCCT
GCCGGCAAGGCCATCTGGGTACCGGGCTGGGGACACACCCAGTATGGAGGCACTGGCGCG
CTGATCTGCAAAAAGGTGAGATCCGCGTCATCAACCAGACCACCTGCGAGAACCCTCTG
CCGACGAGATCACGCCGCGCATGATGTGCGTGGGCTTCCCTCAGCGGCGGCGTGGACTCC
TGCCAGGGTGATTCCGGGGGACCCCTGTCCAGCGTGGAGGCGGATGGGCGGATCTCCAG
GCCGCTGTGGTGTGAGTGGGGAGACGGCTGCGCTCAGAGGAACAAGCCAGGCGGTACACA
AGGCTCCCTCTGTTTCGGGACTGGATCAAAGAGAACACTGGGGTATAG
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Clone variation with respect to NM_021978.3
1215 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021978 unedited
 GGTGTTTGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCGGAATTCGGACGAGCAGG
 GTACGACGCCTGTGAGACCCGCCAGCGGGCTCTGCGTCCATGGGGAGCGATCGGGCCCTC
 CTGGGCGGAGGGGGCCCGAATGACTTCCGCGCGGGACTCAAGCTCAACTACCGGCACGAG
 AAATTGAATGGCTTGTAGGAAGCGTGTATTTCTGCCAGTCAACAACGTCAAGAAGTGG
 AAAAGCATGGCCCGGGGCGCTAGGTGGTGTGGCACCCGTGCTGATCGGCCTACTCTTGG
 TCTTGGCTGGGGATCGGCTTTCTGGTGTGGCATTTCAGTACCCGGTACGTGCGTGTCCAGA
 AGGTCTTTAATGGCTACATGATGATCACAAATGAGAATTTTGTGGATGCCTACGAGAAT
 CCAACTCCAAGTGTGAAAGCCTGGCCAGCATGGTGAAGGACGCGCTGAAGCTGCTGT
 ACAGCGGAGTCCCATTCTGGGCCCTACTCACAAAGAGTCTGCTGTGACGGCCTTCAGC
 GAGTGCAGCGTACCGCTACTACTGGTCTGAGTTCAGCATCCCGCAGCACCTGGTGCAG
 GAGGACGATCGCGTCATGGCCATGAGCGCGTAGTCATGCTGCCCGCGGTGCGCTCC
 CTGAAGTCTTTGTGGTACCTCACTGGTGGCTATCCCCACTGACTTCAAACAGTACAC
 AGGACCCATGACAACAGCTGCAGCTTTTGCCTGCACGCACGCGGTGTGCAGCTGATGCGC
 TTCACCACGCCAGGCTTGCTGACAGNTCTACCCGCTCATGCGCGCTAACANTGGGCCC
 TTGCGGGGGACGCCGACTCACTGCTGAGCTCACCTTTCGAGCTTTGACCTTGGCTCCT
 GCTACGAGCGCGCTACGACCTGGAGACCGTGTACAACACCCTGATCCCCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021978 unedited
 ATCCGTAAGGCCATTGGGCGATGGTCAACTTGCCAGGNCACAGGGAAGAGCACTGGGGGN
 AGGGAGTCACAGGGCATGCCACCCGGTCTGTTCAGGAAACAGCTATGACCGCGGCCGC
 AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAAAATAATAAAATGTTTTACTCATTTA
 CACAAATACACACTGAAGTCCACCCTGGGATCTGGTAAAACAATTTAGTCTCACACC
 CGTCTGTTTTCCAGGCTCCTCCGAGCCTGGGCTTCTCAAGAGCGTGGCCCAAGGGCCCC
 ATAGCTCATATCCAGACTCCCCAACACCTTCACTGAAGAGGCCCTAAGCTCCGTTCCCG
 GTGCTCCTTAAAGACAGGGGAGGCAGATATGCACAAACGCGCCTCGGCCAGCTTGGGGC
 TGGCGGAGAGAGGCTGTGTCTTCAAACCTTTGCCCCAGTTGGGTGAGTAAAACCACCAG
 TGTCTCCCTTTTACCTCCCACTTCACTTTGGATGCTGATGAAGCGATAGGTTTTCTA
 GGCATATTTGGAGCCCTGGAGATTGATTCACAGTGTATGTTCTGGGGCGCTGGTGCAA
 TCAGCAGTCCAGTCTCCATCCTGCAAGCTGTGCACACTGGTGGTGGACGATGTGGTGCA
 CCCGCAAGTGTACACATTTTGGGTAGGCCCGGCCCTATACCCAGTGTCTCTTTGAT
 CCAAGTCCCGAAACAGAGGAGCCTTGTGTACACGCTGGCTTGTGCTCTGATCGCAGCCG
 TCTTCCCATCTGACCACCCGGACTGGAATATCCGGCCATCCGTCTCCACTCTGGACAGG
 GGTCCCCCGAATCACGCTGGGCGGATACTAGCCCTGACGTGAGTCCCCT

Restriction Sites:

ECoRI-NOT

ACCN:

NM_021978

Insert Size:

3100 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	TrueClone.
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_021978.2 , NP_068813.1
RefSeq Size:	3269 bp
RefSeq ORF:	2568 bp
Locus ID:	6768
UniProt ID:	Q9Y5Y6
Cytogenetics:	11q24.3
Domains:	CUB, Tryp_SPc, ldl_recept_a
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is an epithelial-derived, integral membrane serine protease. This protease forms a complex with the Kunitz-type serine protease inhibitor, HAI-1, and is found to be activated by sphingosine 1-phosphate. This protease has been shown to cleave and activate hepatocyte growth factor/scattering factor, and urokinase plasminogen activator, which suggest the function of this protease as an epithelial membrane activator for other proteases and latent growth factors. The expression of this protease has been associated with breast, colon, prostate, and ovarian tumors, which implicates its role in cancer invasion, and metastasis. [provided by RefSeq, Jul 2008]</p>