

Product datasheet for **SC323951**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_021978.3
CGCTGGGCCTGCCCGAATCCC GCCCTGCGCCCCGCGCCCTGCGGGCCATG
GGAGCCGCGCCGCGCAGGGACGACGCCCTGTGAGACCCGCGAGCGCCCTCGGGACCATG
GGGAGCGATCGGGCCCGCAAGGGCGGAGGGGCCGAAGGACTTCGGCGCGGGACTCAAG
TACAACCTCCCGGCACGAGAAAGTGAATGGCTTGGAGGAAGGCGTGGAGTTCTGCCAGTC
AACAACTCAAGAAGGTGAAAAGCATGGCCCGGGCGCTGGGTGGTGTGGCAGCCGTG
CTGATCGGCCTCCTTTGGTCTTGTGGGATCGGCTTCTGGTGTGGCATTTCAGTAC
CGGGACGTGCGTCCAGAAAGTCTTCAATGGCTACATGAGGATCACAATGAGAATTTT
GTGGATGCCTACGAGAACTCCAACCTCACTGAGTTTGTAAAGCCTGGCCAGCAAGGTGAAG
GACGCGCTGAAGCTGCTGTACAGCGGAGTCCCATTCTGGGCCCTACCACAAGGAGTCG
GCTGTGACGGCCTTCAGCGAGGGCAGCGTCATCGCCTACTACTGGTCTGAGTTCAGCATC
CCGCGACACCTGGTGGAGGAGCCGAGCGCTCATGGCCGAGGAGCGCGTAGTCATGCTG
CCCCCGCGGGCGCGCTCCCTGAAGTCTTTGTGGTCACTCAGTGGTGGCTTTCCCCACG
GACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACGCCCCG
GGTGTGGAGCTGATGCGCTTACCACGCCCCGGCTTCCCTGACAGCCCCTACCCCGCTCAT
GCCCGCTGCCAGTGGGCCCTGCGGGGGACGCCGACTCAGTGTGAGCCTCACCTTCCG
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AACCTGACCTTCCACTCCTCCCAGAACGTCCTGCTCATCACATGATAACCAACTGAG
CGGCGGCATCCCCGCTTTGAGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGCTGTGA
GGCCGCTTACGTAAGGCCAGGGGACATTCAACAGCCCCCTACTACCCAGGCCACTACCCA
CCCAACATTGACTGCACATGGAACATTGAGGTGCCCAACAACCAGCATGTGAAGGTGCGC
TTCAAATCTTCTACCTGCTGGAGCCCGCGTGCCTGCGGGCACCTGCCCAAGGACTAC
GTGGAGATCAATGGGAGAAATACTGCGGAGAGAGTCCCAGTTCGTCGTCACCAGCAAC
AGCAACAAGATCACAGTTCGCTTCCACTCAGATCAGTCTACACCGACACCGGCTTCTTA
GCTGAATACCTCTCTACGACTCCAGTGACCCATGCCCGGGCAGTTCACGTGCCGACG
GGCGGTGTATCCGAAGGAGCTGCGCTGTGATGGCTGGGCCACTGCACCGACCACAGC



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GATGAGCTCAACTGCAGTTGCGACGCCGCCACCAGTTCACGTGCAAGAACAAGTTCTGC
AAGCCCCTCTTCTGGGTCTGCGACAGTGTGAACGACTGCGGAGACAACAGCGACGAGCAG
GGGTGCAGTTGTCCGGCCAGACCTTCAGGTGTTCCAATGGGAAGTGCCTCTCGAAAAGC
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GTGAACGTCGTCACCTGTACAAACACACCTACCGCTGCCTCAATGGGCTCTGCTTGAGC
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TGCGACTGTGGGCTGCGGTCATTACGAGACAGGCTCGTGTGTTGGGGGCACGGATGCG
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AGACTGGACCGCTGACTGCACCAGCGCCCCAGAACATACTGTGAACCAATCTCCAG
GGTCCAAATCTGCCTAGAAAACCTCTCGCTTCTCAGCCTCAAAGTGGAGCTGGGGAGG
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AGCCTCCCCCGCCAGCCCAAGCTGGGCCGAGGCGGTTTGTGCATATCTGCCTCCCCTG
TCTCTAAGGAGCAGCGGGAACGGAGCTTCCGGGCTCCTCAGTGAAGGTGGTGGGCTGC
CGGATCTGGGCTGTGGGGCCCTTGGGCCAGCTCTTGGGAAGCCAGGCTCGGAGGACC
CTGGAAAAACAGACGGGTCTGAGACTGAAATTGTTTTACCAGCTCCAGGGTGGACTTCAG
TGTGTGATTTGTGTAATGAGTAAAACATTTTATTTCTTTTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

ECoRI-NOT

ACCN:

NM_021978

OTI Disclaimer:

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.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_021978.3</u> , <u>NP_068813.1</u>
RefSeq Size:	3319 bp
RefSeq ORF:	2568 bp
Locus ID:	6768
UniProt ID:	<u>Q9Y5Y6</u>
Cytogenetics:	11q24.3
Domains:	CUB, Tryp_SPc, ldl_recept_a
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	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]