

## Product datasheet for **SC125583**

### Trypsin (PRSS3) (NM\_002771) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trypsin (PRSS3) (NM_002771) Human Untagged Clone
Tag:	Tag Free
Symbol:	Trypsin
Synonyms:	MTG; PRSS4; T9; TRY3; TRY4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002771, the custom clone sequence may differ by one or more nucleotides

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ATGAATCCATTCTGATCCTTGCCCTTTGTGGGAGCTGCTGTTGCTGTCCCCTTTGACGATGATGACAAGA  
TTGTTGGGGGCTACACCTGTGAGGAGAATTCTCTCCCCTACCAGGTGTCCTGAATTCTGGCTCCCCTT  
CTGCGGTGGCTCCCTCATCAGCGAACAGTGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAG  
GTGAGACTGGGAGAGCACAACATCAAAGTCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCA  
TCCGCCACCCTAAATACAACAGGGACACTCTGGACAATGACATCATGCTGATCAAACCTCTCCTCACCTGC  
CGTCATCAATGCCCGGTGTCCACCATCTCTGCCCACCGCCCTCCAGCTGCTGGCACTGAGTGCCTC  
ATCTCCGGCTGGGGCAACTCTGAGCTTTGGTGTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTC  
CGGTGCTGACCCAGGCTGAGTGTAAAGCCTCCTACCCTGGAAAGATTACCAACAGCATGTTCTGTGTGGG  
CTTCCTTGAGGGAGGCAAGGATTCTGCCAGCGTACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTC  
CAAGGAGTTGCTCCTGGGGCCATGGCTGTGCCTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACA  
ACTATGTGGACTGGATTAAGGACACCATCGCTGCCAACAGCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002771 unedited ACATGATTTTGAATACGCACTCATCTATAGGGCGCGCCGCGTAATTCAGTTGCTGGCTA CCGGCTCCGGTAATTCCTGGGATATCGTCGACCCACGCGTCCGAGCGCGCGGGATGCAG ACGGCTGCGAGGGCGCTGGGCACAGTTGCTGTCCCTTTGACGATGATGACAAGATTGTTG GGGGCTACACCTGTGAGGAGAATTCTCTCCCCTACCAGGTGTCCCTGAATTCTGGCTCCC ACTTCTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTATCAGCAGCTCACTGCTACA AGACCCGCATCCAGGTGAGACTGGGAGAGCACAACATCAAAGTCCTGGAGGGGAATGAGC AGTTCATCAATGCGGCCAAGATCATCCGCCACCCTAAATACAACAGGGACACTCTGGACA ATGACATCATGCTGATCAAACCTCTCTCACCTGCCGTATCAATGCCCGGTGTCCACCA TCTCTCTGCCACCGCCCTCCAGCTGCTGGCACTGAGTGCCTCATCTCCGGCTGGGGCA ACACTCTGAGCTTTGGTGTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTCCGGTGC TGACCACGGCTGAGTGTAAAGCCTCTACCCTGGAAAGATTACCAACAGCATGTTCTGTG TGGGCTTCCCATGAGGGAGGCAAGGATTCCTGCCAGCGTGACCTCTGGTGGCCCTGTG GTGCTGCACCGGACAGCTCCAAGGAATTGTCTACCGGGGACAGGCTTGTGCCTGAAAAA AACAGGCCTTGGGATCTACACCGAGTCTACAACCTTAGTGGACTGGGTTAAAGAAAAG CNTGCGTCCCCACAGTTAAAGCCCCGGTCCCTTTGAGTTTTTAAACATAAAAGGGGC CCGGCTCTAAAAAAGGGGGCCGCGCAATAATTGTTTCTGAAAAATACCCG GAGGGTCCCCTTTGGCCCTCCCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002771
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<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_002771.2</a> , <a href="#">NP_002762.2</a>
<b>RefSeq Size:</b>	823 bp

RefSeq ORF: 744 bp

Locus ID: 5646

UniProt ID: [P35030](#)

Cytogenetics: 9p13.3

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Neuroactive ligand-receptor interaction

**Gene Summary:** This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is expressed in the brain and pancreas and is resistant to common trypsin inhibitors. It is active on peptide linkages involving the carboxyl group of lysine or arginine. This gene is localized to the locus of T cell receptor beta variable orphans on chromosome 9. Four transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2010]  
Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (2) has a distinct N-terminus and is shorter than isoform 1.