

## Product datasheet for **SC125608**

### Trypsin (PRSS1) (NM\_002769) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trypsin (PRSS1) (NM_002769) Human Untagged Clone
Tag:	Tag Free
Symbol:	Trypsin
Synonyms:	TRP1; TRY1; TRY4; TRYP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125608 sequence for NM_002769 edited (data generated by NextGen Sequencing)

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ATGAATCCACTCCTGATCCTTACCTTTGTGGCAGCTGCTCTTGCTGCCCCCTTTGATGAT
GATGACAAGATCGTTGGGGGCTACAACGTGAGGAGAATTCTGTCCCCTACCAGGTGTCC
CTGAATTCTGGCTACCACTTCTGTGGTGGCTCCCTCATCAACGAACAGTGGGTGGTATCA
GCAGGCCACTGCTACAAGTCCCGCATCCAGGTGAGACTGGGAGAGCACAAACATCGAAGTC
CTGGAGGGGAATGAGCAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAATACGAC
AGGAAGACTCTGAACAATGACATCATGTTAATCAAGCTCTCCTCACGTGCAGTAATCAAC
GCCCGCGTGTCCACCATCTCTGCCCACGCCCTCCAGCCACTGGCACGAAGTGCCTC
ATCTCTGGCTGGGGCAACACTGCGAGCTCTGGCGCCGACTACCCAGACGAGCTGCAGTGC
CTGGATGCTCCTGTGCTGAGCCAGGCTAAGTGTGAAGCCTCTACCTGGAAAGATTACC
AGCAACATGTTCTGTGTGGGCTTCTTGAGGGAGGCAAGGATTCATGTCAGGGTGATTCT
GGTGGCCCTGTGGTCTGCAATGGACAGCTCCAAGGAGTTGTCTCCTGGGGTGATGGCTGT
GCCCAGAAGAACAAGCCTGGAGTCTACACCAAGGTCTACAACATATGTGAAATGGATTAAG
AACACCATAGCTGCCAATAGCTAA

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Clone variation with respect to NM\_002769.4



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002769 unedited NNNGGTTNNGGTTTCAGATATTGTNATACCACTCACTATNAGGGCGGCCGNAATCAGAT CTCATGAATCCACTCCTGATCCTTACCTTTGTGGCAGCTGCTCTTGCTGCCCCCTTTGAT GATGATGACAAGATCGTTGGGGGCTACAACGTGAGGAGAATTCTGTCCCTACCAGGTG TCCCTGAATTCTGGCTACCACTTCTGTGGTGGCTCCCTCATCAACGAACAGTGGGTGGTA TCAGCAGGCCACTGCTACAAGTCCCGCATCCAGGTGAGACTGGGAGAGCACAAACATCGAA GTCCTGGAGGGGAATGAGCAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAATAC GACAGGAAGACTCTGAACAATGACATCATGTTAATCAAGCTCTCCTCACGTGCAGTAATC AACGCCCCGCGTGTCCACCATCTCTCTGCCACCGCCCTCCAGCCACTGGCACGAAGTGC CTCATCTCTGGCTGGGGCAACACTGCGAGCTCTGGCGCCGACTACCCAGACGAGCTGCAG TGCCTGGATGCTCCTGTGCTGAGCCAGGCTAAGTGTGAAGCCTCTACCCTGGAAAGATT ACCAGCAACATGTTCTGTGTGGGCTTCTTGAGGGAGGCAAGGATTCATGTCAGGGTGT TCTGGTGGCCCTGTGGTCTGCAATGGACAGCTCCAAGGAGTTGTCTCTGNGGTGATGGC TGTGCCAGAAGAACAAGCCTGGAGTCTACACCAAGGTCTACAACATGTGAAATGGATT AAGAACCCATAGCTGCCAATAGCTAAAGCCCCAGTATCTCTTTCAGTCTCTATACCAAT AAAGTGACCCGTCGACTTAGATTGCGGCCGCGGTTCATAGCTGTTTCTGAACAGATCCC GGGTGGCAT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002769
<b>Insert Size:</b>	800 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_002769.2</a> , <a href="#">NP_002760.1</a>
<b>RefSeq Size:</b>	800 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	5644
<b>UniProt ID:</b>	<a href="#">P07477</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	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 secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7. [provided by RefSeq, Jul 2008]