

Product datasheet for **SC126235**

PRSS2 (NM_002770) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRSS2 (NM_002770) Human Untagged Clone
Tag: Tag Free
Symbol: PRSS2
Synonyms: TRY2; TRY8; TRYP2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002770 edited
 CATGAATCTACTTCTGATCCTTACCTTTGTTGCAGCTGCTGTTGCTGCCCCCTTTGATGA
 TGATGACAAGATCGTTGGGGCTACATCTGTGAGGAGAATTCTGTCCCCTACCAGGTGTC
 CTTGAATTCTGGCTACCACTTCTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTGTGTC
 AGCAGGTCACTGCTACAAGTCCCGCATCCAGGTGAGACTGGGAGAGCACAAACATCGAAGT
 CCTGGAGGGGAATGAACAGTTTCATCAATGCGGCCAAGATCATCCGCCACCCAAAATACAA
 CAGCCGGACTCTGGACAATGACATCCTGCTGATCAAGCTCTCCTCACCTGCCGTCATCAA
 TTCCCCTGCTCCGCCATCTCTGCCCCACTGCCCTCCAGCTGCTGGCACCAGTCCCT
 CATCTCCGGTGGGGCAACTCTGAGTTCTGGTGGCGACTACCCAGACGAGCTGCAGTG
 CCTGGATGCTCCTGTGCTGAGCCAGGCTGAGTGTGAAGCCTCCTACCCTGGAAAGATTAC
 CAACAACATGTTCTGTGTGGCTTCTCGAGGGAGGCAAGGATTCTGCCAGGGTGATTCT
 TGGTGGCCCTGTGGTCTCCAATGGAGAGCTCCAAGGAATTGTCTCCTGGGGCTATGGCTG
 TGCCCAGAAGAACAGGCCTGGAGTCTACACCAAGTCTACAACATATGTGGACTGGATTTA
 GGACACCATAGCTGCCAACAGCTAAAGCCCTGGTCCCTCTGCAGTCTCTATACCAATAA
 AGTGACCTGCTCTCAAT
 AA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002770 unedited TTCAGATTTTGTAAACGACTTACTATAGGGCGGACCGCAATCAGATCTGGTACCGGTC CGGAATCCCAGGATCATGAATCTACTTCTGATCCTTAACTTTGTTGCAGCTGCTGTTGC TGCCCCCTTTGATGATGATGACAAGATCGTTGGGGGCTACATCTGTGAGGAGAATTCTGT CCCCTACCAGGTGCCTTGAATTCTGGCTACCATTCTGCGGTGGCTCCCTCATCAGCGA ACAGTGGTGGTGCAGCAGGTCCTGCTACAAGTCCCGCATCCAGGTGAGACTGGGAGA GCACAACATCGAAGTCTGGAGGGGAATGAACAGTTTCATCAATGCGGCCAAGATCATCCG CCACCCCAAATACAACAGCCGACTCTGGACAATGACATCCTGCTGATCAAGCTCTCCTC ACCTGCCGTCATCAATCCCAGTGTCCGCCATCTCTCTGCCACTGCCCTCCAGCTGC TGGCACCGAGTCCCTCATCTCCGCTGGGGCAACTCTGAGTTCTGGTCCGACTACCC AGACGAGTGCAGTGCCTGGATGCTCCTGTGCTGAGCCAGGCTGAGTGTGAAGCCTCTA CCCTGGAAAGATTACCAACAACATGTTCTGTGTGGGCTTCTCGAGGGAGGCAAGGATTC CTGCCAGGTGATTCTGGTGGCCCTGTGTCTCNCATGGAGAGCTCCAAGAATTGTCTCC CTGGGCTATGGCTGTGCCAGAAGAACAGGCTGGAGTCTACACCANGGTCTACAATAT GTGGACTGGATTTANGACACCATAGCTGCCACAGCTAAAGCCCTGGTCCCTCTGCAGT CTCTATACCATAAAGTGACCCTGCTCTCAAAAAAAAAAANAANNNNAAAAAAAAAAAAAA AAAAATTTNNAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_002770
OTI Disclaimer:	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).
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_002770.2</u> , <u>NP_002761.1</u>
RefSeq Size:	802 bp
RefSeq ORF:	744 bp
Locus ID:	5645
UniProt ID:	<u>P07478</u>
Cytogenetics:	7q34
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Neuroactive ligand-receptor interaction

Gene Summary:

This gene belongs to the trypsin family of serine proteases and encodes anionic trypsinogen. It is part of a cluster of trypsinogen genes that are located within the T cell receptor beta locus. Enzymes of this family cleave peptide bonds that follow lysine or arginine residues. This protein is found at high levels in pancreatic juice and its upregulation is a characteristic feature of pancreatitis. This protein has also been found to activate pro-urokinase in ovarian tumors, suggesting a function in tumor invasion. In addition, this enzyme is able to cleave across the type II collagen triple helix in rheumatoid arthritis synovitis tissue, potentially participating in the degradation of type II collagen-rich cartilage matrix. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2015]

Transcript Variant: This variant (2) lacks an in-frame exon compared to variant 1. The encoded isoform (2) is shorter than isoform 1.