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Product datasheet for SC118401

PRSS8 (NM_002773) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRSS8 (NM_002773) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRSS8
Synonyms:	CAP1; PROSTASIN
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118401 sequence for NM_002773 edited (data generated by NextGen Sequencing)

ATGGCCCAGAAGGGGGTCCTGGGGCCTGGGCAGCTGGGGGCTGTGGCCATTCTGCTCTAT
CTTGGATTACTCCGGTCGGGGACAGGAGCGGAAGGGGCAGAAGCTCCCTGCGGTGTGGCC
CCCCAAGCACGCATCACAGGTGGCAGCAGTGCAGTCGCCGGTCAGTGGCCCTGGCAGGTC
AGCATCACCTATGAAGGCGTCCATGTGTGTGGTGGCTCTCTCGTGTCTGAGCAGTGGGTG
CTGTCAGCTGCTCACTGCTTCCCCAGCGAGCACCACAAGGAAGCCTATGAGGTCAAGCTG
GGGGCCCACCAGCTAGACTCCTACTCCGAGGACGCCAAGGTCAGCACCCTGAAGGACATC
ATCCCCCACCCCAGCTACCTCCAGGAGGGCTCCCAGGGCGACATTGCACTCCTCCAACTC
AGCAGACCCATCACCTTCTCCCGCTACATCCGGCCCATCTGCCTCCCTGCAGCCAACGCC
TCCTTCCCCAACGGCCTCCACTGCACTGTCACTGGCTGGGGTCATGTGGCCCCCTCAGTG
AGCCTCCTGACGCCCAAGCCACTGCAGCAACTCGAGGTGCCTCTGATCAGTCGTGAGACG
TGTAACTGCCTGTACAACATCGACGCCAAGCCTGAGGAGCCGCACTTTGTCCAAGAGGAC
ATGGTGTGTGCTGGCTATGTGGAGGGGGGCAAGGACGCCTGCCAGGGTGACTCTGGGGGC
CCACTCTCCTGCCCTGTGGAGGGTCTCTGGTACCTGACGGGCATTGTGAGCTGGGGAGAT
GCCTGTGGGGCCCGCAACAGGCCTGGTGTGTACACTCTGGCCTCCAGCTATGCCTCCTGG
ATCCAAAGCAAGGTGACAGAACTCCAGCCTCGTGTGGTGCCCCAAACCCAGGAGTCCCAG
CCCGACAGCAACCTCTGTGGCAGCCACCTGGCCTTCAGCTCTGCCCCAGCCCAGGGCTTG
CTGAGGCCCATCCTTTTCCTGCCTCTGGGCCTGGCTCTGGGCCTCCTCTCCCCATGGCTC
AGCGAGCACTGA

Clone variation with respect to NM_002773.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002773 unedited
AGCATTTTGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGGGTGACTCG
TCCACACTGCTCGCTTCGGATACTCCAGGCGTCTCCCGTTGCGGCCGCTCCCTGCCTTAG
AGGCCAGCCTTGGACACTTGCTGCCCCTTTCCAGCCCGGATTCTGGGATCCTTCCCTCTG
AGCCAACATCTGGGTCCTGCCTTCGACACCACCCCAAGGCTTCCTACCTTGCGTGCCTGG
AGTCTGCCCCAGGGGCCCTTGTCCTGGGCCATGGCCCAGAAGGGGGTCCTGGGGCCTGGG
CAGCTGGGGGCTGTGGCCATTCTGCTCTATCTTGGATTACTCCGGTCGGGGACAGGAGCG
GAAGGGGCAGAAGCTCCCTGCGGTGTGGCCCCCCAAGCACGCATCACAGGTGGCAGCAGT
GCAGTCGCCGGTCAGTGGCCCTGGCAGGTCAGCATCACCTATGAAGGCGTCCATGTGTGT
GGTGGCTCTCTCGTGTCTGAGCAGTGGGTGCTGTCAGCTGCTCACTGCTTCCCCAGCGAG
CACCACAAGGAAGCCTATGAGGTCAAGCTGGGGGCCCACCAGCTAGACTCCTACTCCGAG
GACGCCAAGGTCAGCACCCTGAAGGACATCATCCCCCACCCCAGCTACCTCCAGGAGGGC
TCCCAGGGCGACATTGCACTCCTCCAACTCAGCAGACCCATCACCTTCTCCCGCTACATC
CGGCCCATCTGCCTCCCTGCAGCCAACGCCTNCTTCCCCACGGCCTCCACTGCACTGTCA
CTGGCTGGGGTCATGTGGCCCCCTCAGTGAGCCTCCTGACGCCCAAGCCACTGCAGCAAC
TCGAGGTGCCTCTGATCAGTCGTGAGACGTGTAACTTGCTGTACACATCGACGCCAACCC
TGAGACCGCACTTTGCCCAGAGACATGGTGTGTGCTGGCTATGTGAGGGGGCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002773 unedited
ATCTTGNCCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTGTGCTCAAACA
TTTTAATCATTTCTGCCCTGTTACTCCCACCCCAAATCCAAGCGCCAGCCCAGTTCCGGT
GGGGGCTCAGTCCTCCGGAGTCCAGGAGTCAGGGCTCGGGGGCGCTCAGCGGCCAGTGGG
CAAGATTGGGGCCTTTCCTGTCCTCGAAGCTGCACAAAGGTGGCCCCAGCCCAGAACACA
GGGAGAGGGCAGAGAGATGTGCTCATCAGTCTGGGCAGGCGGGCCGGGAGCAGTCTTCCA
GAAACAGGTGGGAGCCAGGGCTCATTTTCATAGCCAAGGGTCCCAGGAGCTCCCCAGGAG
CTCGGCCAATGGGCTGGTCCATGGTGGGTGAGGGGCCAGAGGCTCTGGCCATTGCTACAG
GCAGTAAAACTCCTGACTCTCAGTGATGGTCCCAAAAAGCACACCCAGAAGAATGGGCTC
AAAGATCAAGATGGGGCCCCAGCCTCCCGCAGAGTCCTGAAGGAAGGAGTGGCTCAAGTC
AGGCCCTGGGTCCAAGGCCATCAGGGAAGGACCANGCTCCTGTCCTTGAGTGTGATGCAT
CCATCCTGGAAGTAGGGCCAGCTCAGTGCTCGCTGAGCCCTGGGAAGAGAGGCCCAAAGC
CGGCCCCAGAGCCAGAAAAGATGGGCCTCAGCAAGCCCTGGGCTGGGGCANAACTGAAGC
CACGTGGCTGCACANAAGTTGCTGTCGGGCTGGGACTCCTGGTTTGGGGCACCCACCAGC
CTGGAGTTTTGTCACCTTGCTTTGGATCCACGAGGCCTACCTGGAAGGCCCAGGGGTCCC
CCAGGCCTGTTGGGGGCCCCCAGGCTTTTCCCAGTTAAAATGCCGGCAGGGACCAAAGAC
CTCCCCAGGCCGGGAAGG

Restriction Sites: NotI-NotI

ACCN: NM_002773

Insert Size: 1770 bp

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
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:	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_002773.2, NP_002764.1
RefSeq Size:	1938 bp
RefSeq ORF:	1032 bp
Locus ID:	5652
UniProt ID:	Q16651
Cytogenetics:	16p11.2
Domains:	Tryp_SPc
Protein Families:	Druggable Genome, Protease, Secreted Protein
Gene Summary:	This gene encodes a member of the peptidase S1 or chymotrypsin family of serine proteases. The encoded preproprotein is proteolytically processed to generate light and heavy chains that associate via a disulfide bond to form the heterodimeric enzyme. This enzyme is highly expressed in prostate epithelia and is one of several proteolytic enzymes found in seminal fluid. This protease exhibits trypsin-like substrate specificity, cleaving protein substrates at the carboxyl terminus of lysine or arginine residues. The encoded protease partially mediates proteolytic activation of the epithelial sodium channel, a regulator of sodium balance, and may also play a role in epithelial barrier formation. [provided by RefSeq, Feb 2016]