

Product datasheet for **RG200646**

PRSS8 (NM_002773) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRSS8 (NM_002773) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PRSS8
Synonyms: CAP1; PROSTASIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200646 representing NM_002773
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGAAGGGGTCTGGGGCTGGGCAGCTGGGGCTGTGGCCATTCTGCTCTATCTTGGATTAC
 TCCGGTCGGGGACAGGAGCGGAAGGGGCAGAAGCTCCCTGCGGTGTGGCCCCAAGCACGCATCACAGG
 TGGCAGCAGTGCAGTCGCCGTGAGTGGCCCTGGCAGGTGAGCATCACCTATGAAGGCGTCCATGTGTGT
 GGTGGCTCTCTCGTGTCTGAGCAGTGGGTGCTGTCAGTGTCTCACTGCTTCCCCAGCGAGCACCACAAGG
 AAGCCTATGAGGTCAAGCTGGGGGCCACCAGCTAGACTCCTACTCCGAGGACGCCAAGGTGAGCACCT
 GAAGGACATCATCCCCACCCAGCTACCTCCAGGAGGGCTCCCAGGGCGACATTGCACTCCTCCAACCT
 AGCAGACCCATCACCTTCTCCCGTACATCCGGCCATCTGCCTCCCTGCAGCCAACGCCTCCTTCCCCA
 ACGGCCTCCACTGCACTGTCACTGGCTGGGGTCACTGTGGCCCCCTCAGTGAAGCCTCTGACGCCAAGCC
 ACTGCAGCAACTCGAGGTGCCTCTGATCAGTCGTGAGACGTGTAAGTGCCTGTACAACATCGACGCCAAG
 CCTGAGGAGCCGCACTTTGTCCAAGAGGACATGGTGTGTGCTGGCTATGTGGAGGGGGCAAGGACGCCCT
 GCCAGGGTGAATCTGGGGGCCACTCTCCTGCCCTGTGGAGGGTCTCTGGTACCTGACGGGCATTGTGAG
 CTGGGGAGATGCCTGTGGGGCCGCAACAGGCCCTGGTGTGTACTCTGGCCTCCAGCTATGCCTCCTGG
 ATCCAAAGCAAGGTGACAGAATCCAGCCTCGTGTGGTGGCCCAACCCAGGAGTCCCAGCCCGACAGCA
 ACCTCTGTGGCAGCCACCTGGCCTTCAAGCTCTGCCCCAGCCAGGGCTTGTGAGGCCATCCTTTTCTCT
 GCCTCTGGGCCTGGCTCTGGGCCTCCTCTCCCCATGGCTCAGCGAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200646 representing NM_002773
 Red=Cloning site Green=Tags(s)

MAQKGVLGPGQLGAVAILLYLGLLLRSGTGAEGAEAPCGVAPQARITGGSSAVAGQWPWQVSITYEGVHVC
 GGSLSVSEQWVLSAAHCFPSEHHKEAYEVKLGHQLDSEDAKVSTLKDIIIPHSYLVQEGSQGDIALLQL
 SRPITFSRYIRPICLPAANASFPNGLHCTVTGWGHVAPSVSLLTPKPLQQLEVP LISRET CNCLYNIDAK
 PEEPHFVQEDMVCAGYVEGGKDACQGDSSGGLSCPVEGLWYLTGI VSWG DACGARNRPGVYTLASSYASW
 IQSKVTE LQPRVVPQTQESQPD SNLCGSHLAFSSAPAQGLLRPILFLPLGLALGLLSPWLSEH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002773

ORF Size: 1029 bp

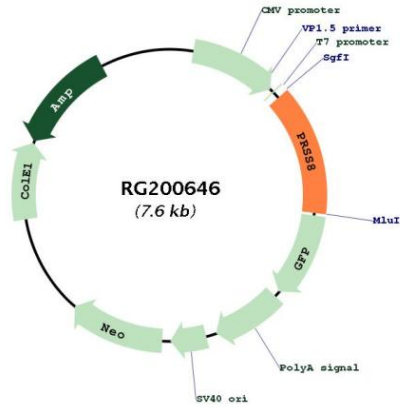
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002773.5</u>
RefSeq Size:	1940 bp
RefSeq ORF:	1032 bp
Locus ID:	5652
UniProt ID:	<u>Q16651</u>
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]

Product images:



Circular map for RG200646