

Product datasheet for **RG210139**

Trypsin (PRSS3) (NM_002771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trypsin (PRSS3) (NM_002771) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRSS3
Synonyms:	MTG; PRSS4; T9; TRY3; TRY4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210139 representing NM_002771 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCATTTCCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCTTTGACGATGATGACAAGA
TTGTTGGGGGCTACACCTGTGAGGAGAATTCTCTCCCTACCAGGTGCCCTGAATTCTGGCTCCCCTT
CTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAG
GTGAGACTGGGAGAGCACAACATCAAAGTCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCA
TCCGCCACCCTAAATACAACAGGGACACTCTGGACAATGACATCATGCTGATCAAACCTCTCTCACCTGC
CGTCATCAATGCCGCGTGTCCACCATCTCTGCCACCGCCCTCCAGCTGCTGGCACTGAGTGCCTC
ATCTCCGGCTGGGGCAACACTCTGAGCTTTGGTGTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTC
CGGTGCTGACCCAGGCTGAGTGTAAAGCCTCTACCCTGGAAAGATTACCAACAGCATGTTCTGTGTGGG
CTTCTTGAGGGAGGCAAGGATTCCTGCCAGCGTGACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTC
CAAGGAGTTGTCTCTGGGGCCATGGCTGTGCCTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACA
ACTATGTGGACTGGATTAAGGACACCATCGCTGCCAACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210139 representing NM_002771
 Red=Cloning site Green=Tags(s)

MNPFLLILAFVGA AVAVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGSLISEQWVVSAAHCYKTRIQ
 VRLGEHNIKVLEGNQFINAAKIIRHPKYNRDTLDNDIMLIKLSPPAVINARVSTISLPTAPPAAGTECL
 ISGWGNTLSFGADYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDCQRDSGGPVCNGQL
 QGVVSWGHCWKNRPGVYTKVYNYVDWIKDTIAANS

TRTRPLE - GFP Tag - V

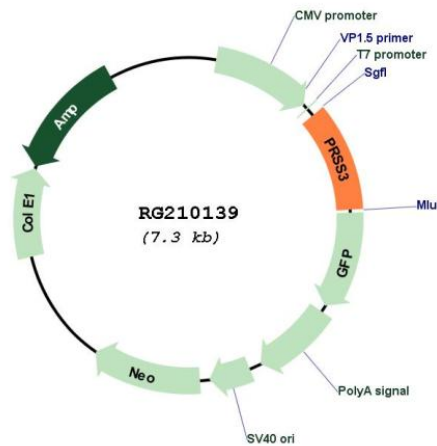
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_002771

ORF Size: 741 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_002771.3, NP_002762.2</p>
RefSeq Size:	<p>823 bp</p>
RefSeq ORF:	<p>744 bp</p>
Locus ID:	<p>5646</p>
UniProt ID:	<p>P35030</p>
Cytogenetics:	<p>9p13.3</p>
Protein Families:	<p>Druggable Genome, Protease, Secreted Protein</p>
Protein Pathways:	<p>Neuroactive ligand-receptor interaction</p>
Gene Summary:	<p>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]</p>