

Product datasheet for **RG231109**

Trypsin (PRSS3) (NM_001197097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trypsin (PRSS3) (NM_001197097) 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:	>RG231109 representing NM_001197097 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACATGAGAGAGACAAGTGGCTTCACATTGAAGAAGGGGAGGAGTGCGCCATTGGTTTTCCATCCTC
CAGATGCACTGATTGCTGTCCCCTTTGACGATGATGACAAGATTGTTGGGGGCTACACCTGTGAGGAGAA
TTCTCTCCCCTACCAGGTGTCCCTGAATTCTGGCTCCCACTTCTGCGGTGGCTCCCTCATCAGCGAACAG
TGGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAGGTGAGACTGGGAGAGCACAAACATCAAAG
TCCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCATCCGCCACCTAAATACAACAGGGACAC
TCTGGACAATGACATCATGCTGATCAAACCTCTCCTCACCTGCCGTCAATGCCCGCGTGTCCACCATC
TCTCTGCCACCGCCCTCCAGCTGCTGGCACTGAGTGCCTCATCTCCGGCTGGGCAACACTCTGAGCT
TTGGTGTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTCCGGTGTGACCCAGGCTGAGTGTAAAGC
CTCCTACCCTGGAAAGATTACCAACAGCATGTTCTGTGTGGGCTTCCCTTGAGGGAGGCAAGGATTCTGC
CAGCGTACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTCCAAGGAGTTGTCTCTGGGGCCATGGCT
GTGCCTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAGGACACCAT
CGCTGCCAACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231109 representing NM_001197097
 Red=Cloning site Green=Tags(s)

MHMRETSGFLLKKGRSAPLVFHPPDALIAVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGSLISEQ
 WVYSAHCYKTRIQVRLGEHNIKVLEGNEQFINAAKIIIRHPKYNRDTLDNDIMLIKLSPPAVINARVSTI
 SLPTAPPAAGTECLISGWGNTLSFGADYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDCS
 QRDSGGPVVVCNGQLQGVVSWGHCWKNRPGVYTKVYNYVDWIKDTIAANS

TRTRPLE - GFP Tag - V

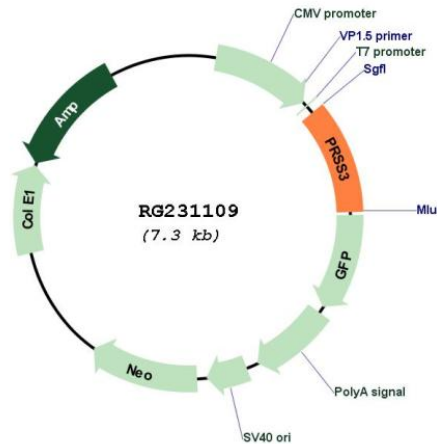
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001197097

ORF Size: 783 bp

OTI Disclaimer:	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:	NM_001197097.2 , NP_001184026.2
RefSeq Size:	1160 bp
RefSeq ORF:	786 bp
Locus ID:	5646
UniProt ID:	P35030
Cytogenetics:	9p13.3
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	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 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]