

Product datasheet for **RG219210**

Trypsin (PRSS1) (NM_002769) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trypsin (PRSS1) (NM_002769) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trypsin
Synonyms:	TRP1; TRY1; TRY4; TRYP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219210 representing NM_002769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCACTCCTGATCCTTACCTTTGTGGCAGCTGCTCTTGCTGCCCCCTTTGATGATGATGACAAGA
TCGTTGGGGGCTACAACGTGAGGAGAATTCTGTCCCCTACCAGGTGCCTGAATTCTGGCTACCACTT
CTGTGGTGGCTCCCTCATCAACGAACAGTGGGTGGTATCAGCAGGCCACTGCTACAAGTCCCGCATCCAG
GTGAGACTGGGAGAGCACAACATCGAAGTCTGGAGGGGAATGAGCAGTTCATCAATGCAGCCAAGATCA
TCCGCCACCCCAATACGACAGGAAGACTCTGAACAATGACATCATGTTAATCAAGCTCTCCTCAGGTGC
AGTAATCAACGCCCGCTGTCCACCATCTCTGCCCACCGCCCCCAGCCACTGGCAGCAAGTGCCTC
ATCTCTGGCTGGGGCAACACTGCAGCTCTGGCGCCGACTACCCAGACGAGCTGCAGTGCCTGGAGCTC
CTGTGCTGAGCCAGGCTAAGTGTGAAGCCTCTACCCTGGAAAGATTACCAGCAACATGTTCTGTGTGGG
CTTCCTTGAGGGAGGCAAGGATTCATGTCAGGGTGATTCTGGTGGCCCTGTGGTCTGCAATGGACAGCTC
CAAGGAGTTGTCTCTGGGGTGTGGCTGTGCCAGAAGAACAAGCCTGGAGTCTACACCAAGGTCTACA
ACTATGTGAAATGGATTAAGAACACCATAGCTGCCAATAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219210 representing NM_002769
 Red=Cloning site Green=Tags(s)

MNPLLLILTFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLINEQWVVSAGHCYKSRIQ
 VRLGEHNIEVLEGNQF INAAKIIRHPQYDRKTLNNDIMLIKLSRAVINARVSTISLPTAPPATGTKCL
 ISGWGNTASSGADYPDELQCLDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDCQGDSSGGPVCNGQL
 QGVVSWGDCGAQKNKPGVYTKVYNYVKWIKNTIAANS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002769

ORF Size: 741 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:

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_002769.2](#), [NP_002760.1](#)

RefSeq Size: 800 bp

RefSeq ORF: 744 bp

Locus ID: 5644

UniProt ID: [P07477](#)

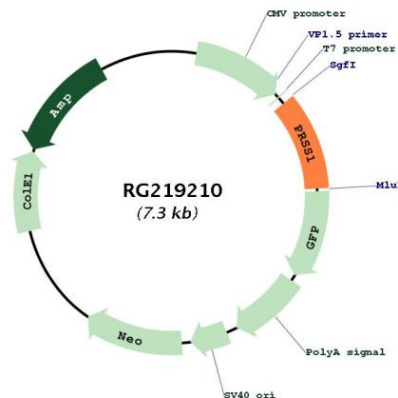
Cytogenetics: 7q34

Protein Families: Druggable Genome, 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 secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219210