

Product datasheet for RG222359

TPSG1 (NM_012467) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TPSG1 (NM_012467) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: TPSG1

Synonyms: PRSS31; TMT; trpA

Mammalian Cell Nec

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG222359 representing NM_012467

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222359 representing NM_012467

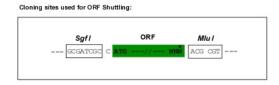
Red=Cloning site Green=Tags(s)

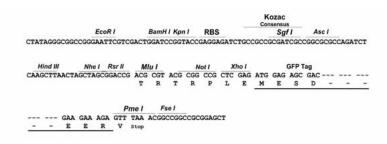
MALGACGLLLLLAVPGVSLRTLQPGCGRPQVSDAGGRIVGGHAAPAGAWPWQASLRLRRMHVCGGSLLSP QWVLTAAHCFSGSLNSSDYQVHLGELEITLSPHFSTVRQIILHSSPSGQPGTSGDIALVELSVPVTLSSR ILPVCLPEASDDFCPGIRCSVTGWGYTREGEPLPPPYSLREVKVSVVDTETCRRDYPGPGGSILQPDMLC ARGPGDACQDDSGGPLVCQVNGAWVQAGIVSWGEGCGRPNRPGVYTRVPAYVNWIRRHITASGGSESGYP RLPLLAGFFLPGLFLLLVSCVLLAKCLLHPSADGTPFPAPD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





ACCN: NM_012467

ORF Size: 963 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: <u>NM 012467.2</u>, <u>NP 036599.2</u>

RefSeq Size: 1124 bp
RefSeq ORF: 966 bp
Locus ID: 25823
UniProt ID: Q9NRR2
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1.

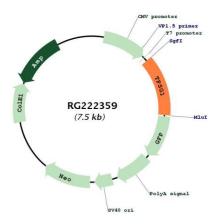
Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. There is uncertainty regarding the number of genes in this cluster. Currently four functional genes - alpha I, beta II and gamma I - have been identified. And beta I has an allelic variant named alpha II, beta II has an allelic variant beta III, also gamma I has an allelic variant gamma II. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha-tryptases predominant. This gene differs from other members of the tryptase gene family in that it has C-terminal hydrophobic

domain, which may serve as a membrane anchor. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.

[provided by RefSeq, Jul 2008]



Product images:



Circular map for RG222359