

Product datasheet for **RG212708**

Matriptase 2 (TMPRSS6) (NM_153609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matriptase 2 (TMPRSS6) (NM_153609) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMPRSS6
Synonyms:	IRIDA; MT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212708 representing NM_153609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGTTACTCTTCCACTCCAAAAGGATGCCCGTGGCCGAGGCCCCAGGTGGCTGGCGGGCAGGGG
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 CCGGGGCTACCTCCGCTGGTGCCCTGTTGTGCTGCTGGCCCTGCTCGTGCTGGCTTCGGCGGGGGTG
 CTA CTCTGGTATTTCTAGGGTACAAGCGGAGGTGATGGTCAGCCAGGTGTA CTCAAGCAGTCTGCGTG
 TACTCAATCGCCACTTCTCCAGGATCTTACCCGCCGGGAATCTAGTGCCCTCCGCGAGTAAACCGCCAA
 AGCCCAGAAGATGCTCAAGGAGCTCATCACCAGCACCCGCTGGGAATTA CTACA ACTCCAGCTCCGTC
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 CTAGTGGCCGCTGGTTCTGGCGGGGCTGGTCAGCTGGGGCCTGGGCTGTGGCCGGCCTAACTACTTCG
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ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

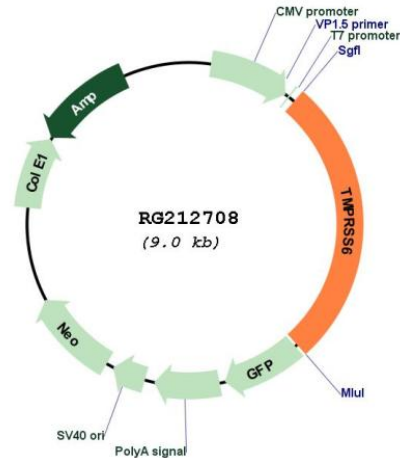
Protein Sequence: >RG212708 representing NM_153609
 Red=Cloning site Green=Tags(s)

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MLLLFHSKRMPVAEAPQVAGGQGDGGDGEAEPEGMFKACEDSKRKARGYLRLVPLFVLLALLVLASAGV
LLWYFLGYKAEVMVSQVYSGSLRVLNRHFSQDLTRRESSAFRSETAKAQKMLKELITSTRLGTYYNSSSV
YSFGEGPLTCFFWFILQIPEHRRMLMLSPEVVQALLVEELLSTVNSSAAVPYRAEYEVDPGLVILEASVK
DIAALNSTLGCYRYSYVGQGVLRLLKGPDLASSCLWHLQGPKDLMLKLRLEWTLAECRDLAMYDVAGP
LEKRLITSVYGC SRQEPVVEVLASGAIMAVVWKKGLHSYYDPFVLSVQPVVFQACEVNLTLNRLDSQGV
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SDEEHCDCLQGSSRIVGGAVSSEGEWPWQASLQVRGRHICGGALIADRWVITAAHCFQEDSMAS TVLW
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HCWITGWGALREGGPISNALQKVDVQLIPQDLCSEVYRYQVTPRMLCAGYRKGKKDACQGDSSGGLVCKA
LSGRWFLAGLVSWGLGCGRPNYFGVYTRITGVISWIQQVVT
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_153609

ORF Size: 2433 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_153609.3](#)

RefSeq Size: 3212 bp

RefSeq ORF: 2409 bp

Locus ID: 164656

UniProt ID: [Q8IU80](#)

Cytogenetics: 22q12.3

Protein Families: Druggable Genome, Protease, Transmembrane

Gene Summary: The protein encoded by this gene is a type II transmembrane serine proteinase that is found attached to the cell surface. The encoded protein may be involved in matrix remodeling processes in the liver. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]