

## Product datasheet for **RG237601**

### **TMPRSS5 (NM\_001288749) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS5 (NM_001288749) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMPRSS5
Synonyms:	SPINESIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237601 representing NM_001288749. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGACGTGGCTGTGCAGTGTGGGAGCCCTGGGGCTGCTGGCCGGTGCAGGTGTTGGCTCATGGCTC
TAGTGCTGTATCTGTGCCTGCTGCCTCTCAGCCCATTTCCGGGACCTTGCAGGATGAGGAGATAACT
TTGAGCTGCTCAGAGGCCAGCGCTGAGGAAGCTCTGCTCCCTGCACTTCCAAAACAGTATCTTTCAGA
ATAAACAGCGAAGACTTCTTGTGGAAGCGCAAGTGAGGGATCAGCCACGCTGGCTCCTGGTCTGCCAT
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AAGGGAGTAAACCTCACTGACATCAAACCAACAGTTCAGGAGTTTGGCTCAGCTCTCTCCTAGACTG
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GCGGGGCTGGTACGCCACAGTGCCTCAGGCCCAAGGGGCTCTGGTGGAGAGGATTATCCACAC
CCCCTCTACAGTGCACAGAAATCATGACTACGACGTCGCCCTCCTGAGGCTCCAGACCGCTCTCAACTTC
TCAGACACTGTGGGCGCTGTGTGCCTGCCGGCCAAGGAACAGCATTTTCCGAAGGGCTCGCGGTGCTGG
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TGCGCTGGCTACCTGGACGGAAGGGCTGATGCATGCCAGGGAGATAGCGGGGGCCCCCTAGTGTGCCCA
GATGGGGACACATGGCGCCTAGTGGGGTGGTCACTGAGTGGGGCGTGGCTGCCAGAGCCCAATCAGCCA
GGTGTCTACGCCAAGGTAGCTGAGTTTCTGGACTGGATCCATGACACTGCTCAGGACTCCCTCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237601  
 Blue=ORF Red=Cloning site Green=Tag(s)

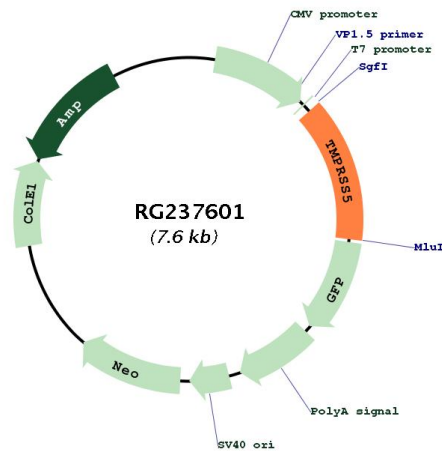
MRRGCAVLGALGLLAGVGSWLLVLYLCPAASQPI SGT LQDEEITLSCSEASAE EALLPALPKTVSFR  
 INSEDFLL EAQRDQPRWLLVCH EGWSPALGLQICWSLGHRL THHKGVNLT DIKLNSSQEF AQLSPRL  
 GGFL EEA WQPSFRLARLSSWRVHAGLVSHSAVRPHQ GALVERIIPHPL YSAQNHDYDVALLRQTALNF  
 SDTVGAVCLPAKEQHFPKGSRCWVSWGHTHPSHTYSSDMLQDTVVPLFSTQLCNSSCVYSGALTPRML  
 CAGYLDGRADACQDSSGGLVCPDGDTRWLVGVVSWGRGCAEPNHPGVYAKVAEFLDWIHDTAQDSLL  
**TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288749

<b>ORF Size:</b>	1032 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001288749.2</a>
<b>RefSeq Size:</b>	1950 bp
<b>RefSeq ORF:</b>	1035 bp
<b>Locus ID:</b>	80975
<b>UniProt ID:</b>	<a href="#">Q9H3S3</a>
<b>Cytogenetics:</b>	11q23.2
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>MW:</b>	37.9 kDa
<b>Gene Summary:</b>	This gene encodes a protein that belongs to the serine protease family. Serine proteases are known to be involved in many physiological and pathological processes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]