

Product datasheet for **RG205514**

TSP50 (PRSS50) (NM_013270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSP50 (PRSS50) (NM_013270) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSP50
Synonyms:	CT20; TSP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205514 representing NM_013270 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCGCTGGTGCCAGACCGTCGCGCGGGCAGCGCCCCGGACGTCTGCCCCCTCCCGCGCCGGTG
CCCTGCTGCTGCTGTTCTGTTGCTGAGGTCTGCAGGTTGCTGGGGCGCAGGGGAAGCCCCGGGGCGCT
GTCCACTGCTGATCCCGCCGACCAGAGCGTCCAGTGTGTCCCAAGGCCACCTGTCCTTCCAGCCGGCCT
CGCCTTCTTGGCAGACCCGACCACCCAGACACTGCCCTCGACCACCATGGAGACCCAATCCCAGTTT
CTGAAGGCAAAGTCGACCATAACCGCTCCTGTGGCTTTTCTACGAGCAGGACCCACCCCTCAGGGACCC
AGAAGCCGTGGCTCGGGCGTGGCCCTGGATGGTCAGCGTGGGGCCAATGGCACACACATCTGTGCCGGC
ACCATCATTGCCTCCCAGTGGGTGCTGACTGTGGCCCACTGCCTGATCTGGCGTGATGTTATCTACTCAG
TGAGGGTGGGGAGTCCGTGGATTGACCAGATGACGCAGACCGCCTCCGATGTCCCGGTGCTCCAGGTCAT
CATGCATAGCAGGTACCGGGCCAGCGTTCTGGTCTGGGTGGGCCAGGCCAACGACATCGGCCTCCTC
AAGCTCAAGCAGGAACCAAGTACAGCAATTACGTGCGGCCCATCTGCCTGCCTGGCAGGACTATGTGT
TGAAGGACCATCCCCTGCACTGTGACGGGTGGGGACTTTCCAAGGCTGACGGCATGTGGCCTCAGTT
CCGGACCATTGAGGAGAAGGAAGTCATCATCCTGAACAACAAAGAGTGTGACAATTTCTACCACAACCTC
ACCAAAATCCCCTCTGGTTCAGATCATCAAGTCCCAGATGATGTGTGGGAGGACACCCACAGGGAGA
AGTTCTGCTATGAGCTAACTGGAGAGCCCTGGTCTGCTCCATGGAGGGCACGTGGTACCTGGTGGGATT
GGTGAGCTGGGGTGCAGGCTGCCAGAAGAGCGAGGCCCAACCATCTACCTACAGGTCTCCTCCTACCAA
CACTGGATCTGGGACTGCCTCAACGGGCAGGCCCTGGCCCTGCCAGCCCATCCAGGACCTGCTCCTGG
CACTCCCCTGCCCCCAGCCTCCTTGCTGCCCTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205514 representing NM_013270
 Red=Cloning site Green=Tags(s)

MGRWCQTVARGQRPRTSAPSRAGALLLLLLLLRSAGCWGAGEAPGALSTADPADQSVQCVPKATCPSSRP
 RLLWQPTTQTL PSTT METQFPVSEKGVDPYRSCGFSYEQDPTLRDPEAVARRWPWMVSVRANGTHICAG
 TIIASQWLVTAHCL IWRDVIYSVRVGSPIWIDQMTQTASDVPVLQVIMHSRYRAQRFWSWVGQANDIGLL
 KLKQELKYSNYVRPICLPGTDYVLKDHSRCTVTGWGLSKADGMWPQFRTIQEKEV IILNNKECDNFYHNF
 TKIPTLVQIIKSQMMCAEDTHREKFCYELTGEPLVCSMEGTWYLVGLVSWGAGCQKSEAPPIYLQVSSYQ
 HWIWDCLNGQALALPAPSRLLLLALPLPLSLLAAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013270

ORF Size: 1155 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_013270.5](#)

RefSeq Size: 1354 bp

RefSeq ORF: 1158 bp

Locus ID: 29122

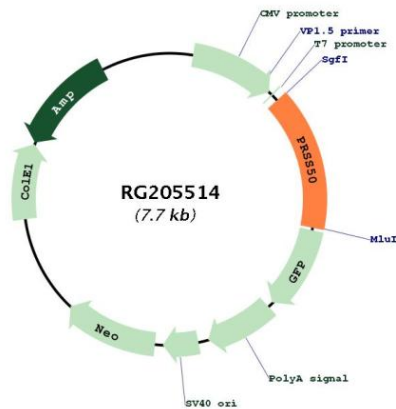
UniProt ID: [Q9UI38](#)

Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Protease

Gene Summary: May be involved in proteolysis through its threonine endopeptidase activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205514