

Product datasheet for **RG205593**

IMP5 (SPPL2C) (NM_175882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IMP5 (SPPL2C) (NM_175882) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPPL2C
Synonyms:	IMP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG205593 representing NM_175882
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTGCCTGGGCTTCTCCTCCCCGTGGGCTTCTCCTCCTCATCAGCACCGTGGCCGGGGAAAGT
ACGGCGTGGCCACGTGGTGTGCGAGAATTGGAGCAAGGACTACTGTATCCTGTTAGCTCCGACTACAT
CACCCTCCCCGGGACCTGCACCACGCCCACTCCTGCCCTGTATGATGGCACCAAGGCACCCTGGTGC
CCGGGTGAGGATCCCCCACCAGGCCAGCTCCGCTCCCCAGCCAGCGGCCCTCCGCCAGACCACTG
CCATGGTCATGAGGGTAAGTGCAGTTCCACACGAAAGGCTGGCTGGCTCAGGGCCAAGGTGCCACGG
GCTGCTCATCGTAGCCGGTCACTGACCAACAGTGTCTCAGACACCCTGGCACCCAGGATCCCCGC
CAGCCCCTGGCAGACCTACCATCCCTGTGGCTATGCTCCACTATGCTGACATGCTGGACATCTCAGCC
ACACTCGTGGGAGGCCGTGTCGCGTGGCCATGTACGCACCCAGAGCCCATCATCGACTACAACAT
GCTGGTCACTTTCATCCTGGCTGTGGGCACAGTGGCTGCAGGCGGCTACTGGCCGGCCTGACCGAAGCC
AACC GGCTACAGCGGCGCGTGCCTGAGAGGAGGGGGTCTGGTGGTACCATCAGCTGCAGGAAGCTG
CAGCAGCTGAGGGAGCCAGAAGGAAGATAATGAGGACATCCCAGTGGACTTCACGCCGGCCATGACAGG
CGTGGTGGTACCCTGTCTGCTCGCTCATGCTGCTGCTACTTCTTCTATGACCACTTGTCTATGTC
ACCATTGGGATCTTTGGCCTGGGTGCTGGCATTGGCCTTACAGCTGCCTGTACCCCTGGTGTGCCACC
TGTCCCTGCGGCAATACCAGAGGCCCTCCGCACAGCCTCTGGGCCCTCTGCGCGTGCCTGTGCTGCT
GGCGAGCCTGTGCGCAACCGTGATCATCTTCTGGTGGCCTACCGCAATGAGGACCGTGGCGTGGCTC
CTGCAGGACACACTGGGCATTTCTACTGCCTGTTGCTGCTGCACCGTGTGCGGCTGCCACTCTCAAGA
ACTGCTCCTCCTCCTGCTGGCCCTGCTGGCCTTTGATGTCTTCTTTGCTTTCGTCACCCCTTCTCAC
CAAACCGGTGAGAGCATCATGGCGCAGGTTGCCTTGGGCCCTGCAGAGTCTTCAAGCCATGAGAGGCTG
CCCATGGTACTCAAAGTGCCCGGCTAAGAGTCTCCGCCTTGACCCTGTGCAGCCAGCCCTTCTCCATCC
TTGGCTTCGGTGACATTGTGGTCCCCGGCTTCTGGTTGCTTACTGTTGCCGCTTTGATGTGCAAGTCTG
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ATGGTCTCATGCAGATGGGCCAACCTGCCTTGTCTACCTAGTGTCCAGCACCTGCTCACCAGCCTGG
CTGTGGCTGCCTGCCCAAGAGCTCAGCCTCTTCTGGACTGGCCAGGGCAGAGTAAGATGTGTGGCT
CGGCTGTGCCCTTCGGCTGGCTTAGGCAGAAGCAGGAGGGCGCAGCAGATGCCACACAGCCAGCACA
CTTGAGAGAGGCACCAGCCGAGGAGCAGGGGACTTAGACAGCAACCTGGAGAAGACCACTGAGATTG
TCACCATATCTGAGAATGAAGCCACCAATCCAGAGGACCGCAGTATAGCTCCGAGGGCTGGAGTGACGC
CCACTTGGATCCTAATGAGCTGCCCTTATCCCCCTGGGGCTCGGAGGAGCTGGTGCCACTGATGCCA
ATGGCCATGCTGATCCCCTCATGCCCTGATGCCCCCGCCTCAGAGCTGGGCCATGTCCATGCCCAGG
CCCAGGCCACGAGACTGGCCTGCCCTGGGCGGGACTCCACAAGAGGAAGGGTTTAAAGTAAGAAAGAG
CATGTCGACCCAGGCTCCCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205593 representing NM_175882
 Red=Cloning site Green=Tags(s)

MACLGFLLPVGFLLL ISTVAGGKYGVAHVVSSENWSKDYCILFSSDYITLPRDLHHAPELLPLYDGTKAPWC
 PGEDSPHQALRSPSQRLRQTTAMVMRGNC SFHTKGWLAQGGGAHGLLIVSRVSDQQCSDTTLAPQDPR
 QPLADLTIPVAMLHYADMLDILSHTRGEAVVRVAMYAPPEPIIDYNMLVIFILAVGTVAAGGYWAGL TEA
 NRLQRRRARRGGGSGGHHQLQEAAAEGAQKEDNEDIPVDFTPAMTG VVVTLSCSLM LLLYFFYDHFVYV
 TIGIFLGLGAGIGLYSCLSP LVCHLSLRQYQRPPHSLWASLPLPLLLLASLCATV IIFWVAYRNEDRWAWL
 LQDTLGISYCLFVLRVRLPTLKNCSFLLALLAFDVFFVFPFFTKTGESIMAQVALGPAESSHERL
 PMVLKVPRLRVSALTLC SQPFSILGFGDIVVPGFLVAYCCRFDVQCSRQIYFVACTVAYAVGLLVTFMA
 MYLMQMGQP ALLYLVSTLLTSLAVAACRQELSLFWTGQGRAKMCGLGCAPSAGSRQKQEGAADAHTAST
 LERGTSRAGDLDSNPGEDTTEIVTISENEATNPEDRSDSSEGWSDAHLDPNELPFIPPGASEELVPLMP
 MAMLIPLMPLMPPSELGHVHAQAQAHETGLPWAGLHKKRGLKVRKSMSTQAPL

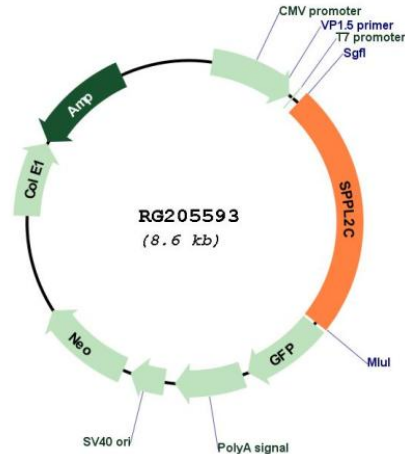
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_175882

ORF Size: 2052 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_175882.1](#), [NP_787078.1](#)

RefSeq Size: 2055 bp

RefSeq ORF:	2055 bp
Locus ID:	162540
UniProt ID:	<u>Q8IUH8</u>
Cytogenetics:	17q21.31
Protein Families:	Transmembrane
Gene Summary:	Intramembrane-cleaving aspartic protease (I-CLiP) that may be able to cleave type II membrane signal peptides in the hydrophobic plane of the membrane.[UniProtKB/Swiss-Prot Function]