

## Product datasheet for RC210116

### SPP2 (NM\_006944) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPP2 (NM_006944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPP2
Synonyms:	SPP-24; SPP24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210116 representing NM_006944 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGATTTCCAGAATGGAGAAGATGACGATGATGATGAAGATATTGATTATGTTTGCTCTTGGAAATGAACT  
ACTGGTCTTGCTCAGGTTTCCCAGTGTACGACTACGATCCATCCTCCTTAAGGGATGCCCTCAGTGCCTC  
TGTGGTAAAAGTGAATCCCAGTCACTGAGTCCGTATCTGTTTCGGGCATTGAGAAGCTCATAAAAAGA  
GTTGAGGTCCTAGATGAGAACAACCTGGTCATGAATTTAGAGTTCAGCATCCGGGAGACAACATGCAGGA  
AGGATTCTGGAGAAGATCCCGCTACATGTGCCTCCAGAGGGACTACTATGTGTCCACAGCTGTTTGCAG  
AAGCACCGTGAAGGTATCTGCCAGCAGGTGCAGGGCGTGCATGCTCGCTGCAGCTGGTCCCTCCACG  
TCTGAGTCTTACAGCAGCGAAGAGATGATTTTTGGGGACATGTTGGGATCTCATAAATGGAGAAACAATT  
ATCTATTTGGTCTCATTTAGACGAGTCCATAAGTGAACAATTTATGATCGGTCACTTGGGATCATGAG  
AAGGGTATTGCCTCCTGGAAACAGAAGGTACCCAAACCACCGGCACAGAGCAAGAATAAATACTGACTTT  
GAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210116 representing NM\_006944  
 Red=Cloning site Green=Tags(s)

MISRMEKMTMMKILIMFALGMNYWSCSGFPVYDYPSSLRDALSASVVKVNSQSLSPYLFRFRSSLKR  
 VEVLDENLVMNLEFSIRETTCKRDSGEDPATCAFQRDYVYSTAVCRSTVKVSAQQVQGVHARCSWSST  
 SESYSSEEMIFGDMLGSHKWRNNYLFGLISDEISEQFYDRSLGIMRRVLPNGRRYPNHRHRARINTDF  
 E

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8121\\_d09.zip](https://cdn.origene.com/chromatograms/mk8121_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006944

**ORF Size:** 633 bp

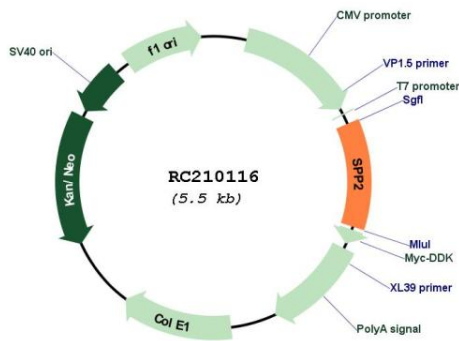
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_006944.1](#)
- RefSeq Size:** 1019 bp
- RefSeq ORF:** 636 bp
- Locus ID:** 6694
- UniProt ID:** [Q13103](#)
- Cytogenetics:** 2q37.1
- Protein Families:** Secreted Protein
- MW:** 24.8 kDa
- Gene Summary:** This gene encodes a secreted phosphoprotein that is a member of the cystatin superfamily. [provided by RefSeq, Oct 2008]

**Product images:**



Circular map for RC210116