

## Product datasheet for SC311166

### STEAP2 (NM\_001040666) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP2 (NM_001040666) Human Untagged Clone
Tag:	Tag Free
Symbol:	STEAP2
Synonyms:	IPCA1; PCANAP1; PUMPCn; STAMP1; STMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311166 representing NM_001040666. Blue=Insert sequence Red=Cloning site Green=Tag(s)

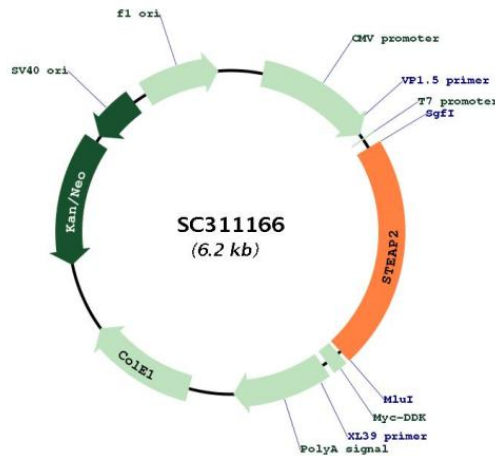
```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAATCAATCTCTATGATGGGAAGCCCTAAGAGCCTTAGTGAACTTTTTTACCTAATGGCATAAAT
GGTATCAAAGATGCAAGGAAGGTCAGTGTAGGTGATTGGAAGTGGAGATTTTGCCAAATCCTTGACC
ATTCGACTTATTAGATGCGGCTATCATGTGGTCATAGGAAGTAGAAATCCTAAGTTTGCTTCTGAATTT
TTTCTCATGTGGTAGATGTCAGTCTCATGAAGATGCTCTCACAAAAACAAATAAATATTTGTTGCT
ATACACAGAGAACATTATACCTCCCTGTGGACCTGAGACATCTGCTTGTGGTAAAATCCTGATTGAT
GTGAGCAATAACATGAGGATAAACAGTACCCAGAATCCAATGCTGAATATTTGGCTTCATTATTTCCA
GATTCTTTGATTGCAAAGGATTTAATGTTGTCTCAGCTTGGGCACTTCAAGTTAGGACCTAAGGATGCC
AGCCGGCAGGTTTATATATGCAGCAACAATATTCAAGCGCGACAACAGGTTATTGAACCTGCCCGCCAG
TTGAATTTCAATCCCATTTGACTTGGGATCCTTATCATCAGCCAGAGAGATTGAAAATTTACCCCTACGA
CTCTTTACTCTCTGGAGAGGGCCAGTGGTGGTAGCTATAAGCTTGGCCACATTTTTTTTCTTTATTTCC
TTTGTGAGAGATGTGATTCATCCATATGCTAGAAACCAACAGAGTACTTTTACAAAATCCTATAGAG
ATTGTGAATAAACCTTACCTATAGTTGCCATTACTTTGCTCTCCCTAGTATACCTCGCAGGCTCTCTG
GCAGCTGCTTATCAACTTTATTACGGCACCAAGTATAGGAGATTTCCACCTTGGTTGAAACCTGGTTA
CAGTGTAGAAAACAGCTTGGATTACTAAGTTTTTTCTTCGCTATGGTCCATGTTGCCACAGCCTCTGC
TTACCGATGAGAAGGTCAGAGAGATATTTGTTTCTCAACATGGCTTATCAGCAGGTTTATGCAAAATTT
GAAAACCTTGGAAATGAGGAAGAAGTTTGGAGAATTGAAATGTATATCTCCTTTGGCATAATGAGCCTT
GGCTTACTTTCCCTCCTGGCAGTCACTTCTATCCCTTCAGTGGCAATGCTTTAAACTGGAGAGAATTC
AGTTTTTATTAGTCTACACTTGGATATGTCGCTCTGCTCATAAGTACTTTCCATGTTTTAATTTATGGA
TGGAAACGAGCTTTTGGGAAGAGTACTACAGATTTTATACACCACCAAATTTGTTCTTGTCTTGT
TTGCCCTCAATTGTAATTTCTGGATCTTTTGCAGCTTTGCAGATACCCAGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001040666

Insert Size: 1365 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001040666.1](#)

**RefSeq Size:** 2320 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 261729

**UniProt ID:** [Q8NFT2](#)

**Cytogenetics:** 7q21.13

**Protein Families:** Transmembrane

**MW:** 52.1 kDa

**Gene Summary:** This gene is a member of the STEAP family and encodes a multi-pass membrane protein that localizes to the Golgi complex, the plasma membrane, and the vesicular tubular structures in the cytosol. A highly similar protein in mouse has both ferrireductase and cupric reductase activity, and stimulates the cellular uptake of both iron and copper in vitro. Increased transcriptional expression of the human gene is associated with prostate cancer progression. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (3) differs in the 5' UTR, 3' UTR, and 3' coding region compared to variant 1, resulting in a protein (isoform b) that is shorter and has a unique C-terminus, compared to isoform a.