

## Product datasheet for SC100675

### STEAP2 (NM\_152999) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP2 (NM_152999) Human Untagged Clone
Tag:	Tag Free
Symbol:	STEAP2
Synonyms:	IPCA1; PCANAP1; PUMPCn; STAMP1; STMP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC100675 representing NM_152999. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCGGCCGCGAATTCGGCACCAGCTTGGGTAGGCGGGGAAGCAGCTGGAGTGCGACC GCCCGGCAGCCA
CCCTGCAACCGCCAGTCGGAGGTGCAGTCCGTAGGCCCTGGCCCCGGTGGGCCCTTGGGGAGTCGGC
GCCGCTCCCGGGGAGCTGCAAGGCTCGCCCTGCCCGCGTGGAGGGCGCGGGGGCGCGGAGGATATT
CTTGGTGATCTTGAAGTGTCCGTATCATGGAATCAATCTCTATGATGGGAAGCCCTAAGAGCCTTAGT
GAAACTTTTTACCTAATGGCATAAATGGTATCAAAGATGCAAGGAAGGCTACTGTAGGTGTGATTGGA
AGTGGAGATTTTGCCAAATCCTTGACATTGACTTATTAGATGCGGCTATCATGTGGTCATAGGAAGT
AGAAATCCTAAGTTTGCTTCTGAATTTTTCTCATGTGGTAGATGTCATCATGAAGATGCTCTC
ACAAAAACAAATATAATATTTGTTGCTATACACAGAGAACATTATACCTCCCTGTGGACCTGAGACAT
CTGCTTGTGGGTAATCCTGATTGATGTGAGCAATAACATGAGGATAAACAGTACCCAGAATCCAAT
GCTGAATATTTGGCTTCAATATTTCCAGATTCTTTGATTGTCAAAGGATTAATGTTGTCTCAGCTTGG
GCACTTCAGTTAGGACCTAAGGATGCCAGCCGGCAGGTTTATATGCAGCAACAATATTCAGCGCGA
CAACAGGTTATTGAACTTGCCCGCCAGTTGAATTTCAATCCCATGACTTGGGATCCTTATCATCAGCC
AGAGAGATTGAAAATTTACCCCTACGACTCTTACTCTCTGGAGAGGGCCAGTGGTGGTAGCTATAAGC
TTGGCCACATTTTTTCTTTTATTCTTTGTGAGAGATGTGATTCATCCATAGCTAGAAAACCAACAG
AGTGACTTTTACAAAATCCTATAGAGATTGTGAATAAAACCTTACCTATAGTTGCCATTACTTTGCTC
TCCCTAGTATACCTCGCAGGCTCTTGGCAGCTGCTTATCACTTTATTACGGCACCAAGTATGGAGA
TTTCCACCTTGGTTGAAACCTGGTTACAGTGTAGAAAACAGCTTGGATTACTAAGTTTTTTCTTCGCT
ATGGTCCATGTTGCCTACAGCCTCTGCTTACCGATGAGAAGGTCAGAGAGATATTTGTTTCTCAACATG
GCTTATCAGCAGGTTTATGCAAATATTGAAAACCTTGGAAATGAGGAAGAAGTTTGGAGAATTGAAATG
TATATCTCCTTTGGCATAATGAGCCTTGGCTTACTTTCCCTCCTGGCAGTCACTTCTATCCCTTCAGTG
AGCAATGCTTTAACTGGAGAGAATTGAGTTTATTGAGTCTACACTTGGATATGTCGCTCTGCTCATA
AGTACTTTCCATGTTTTAATTTATGGATGGAACGAGCTTTTGGGAAGAGTACTACAGATTTTATACA
CCACCAAATTTGTTCTTGTCTTGTGTTTGCCTCAATTGTAATTCTGGGTAAGATTATTTTATTCCTT
CCATGTATAAGCCGAAAGCTAAAACGAATTAATAAAGGCTGGGAAAAGAGCCAATTTCTGGAAGAAGGT

```



[View online »](#)

ATTGGAGGAACAATTCCTCATGTCTCCCCGAGAGGGTCACAGTAATGTGATGATAAATGGTGTTCACA  
GCTGCCATATAAAGTTCTACTCATGCCATTATTTTTATGACTTCTACGTTACAGTTACAAGTATGCTGTC  
AAATTATCGTGGGTTGAAACTTGTTAAATGAGATTTCAACTGACTTAGTGATAGAGTTTTCTTCAAGTT  
AATTTTCACAAATGTCATGTTTGCCAATATGAATTTTTCTAGTCAACATATTATTGTAATTTAGGTATG  
TTTTGTTTTGTTTTGCACAACTGTAACCCTGTTGTTACTTTATATTTTATAATCAGGCCAAAAACTTA  
CAGTTAATAATATAGATATAATGTTAAAAACAATTTGCAAACCAGCAGAATTTTAAAGCTTTTAAAAATA  
TTCAATGGATATACATTTTTTTCTGAAGATTAAGATTTTAAATTTCAACTTAAAAAGTAGAAATGCAT  
TATTATACATTTTTTTAAGAAAGGACACGTTATGTTAGCATCTAGGTAAGGCTGCATGATAGCATTCCCT  
ATATTTCTCTCATAAAAATAGGATTTGAAGGATGAAATTAATTGTATGAAGCAATGTGATTATATGAAGA  
GACACAAATTA AAAAGACAAATTAACCTGAAATTATATTTAAAAATATTTGAGACATGAAATACATA  
CTGATAATACATACCTCATGAAAGATTTTATTCTTTATTGTGTTACAGAGCAGTTTCATTTTCATATTA  
ATATACTGATCAGGAAGAGGATTCAGTAACATTTGGCCTCCAAAAGTCTATCTCTAATACGGTACCAA  
TCCTAGGAAGTATACTAGTTCCTACTTAGAACAAAAGTATCAAGTTTGCACACAAGTAATCTGCCAG  
CTGACCTTTGTCGCACCTTAACCACTCACCCTTGCTATGGTATAGGATTATACTGATGTTCTTTGAGG  
GATTCTGATGTGCTAGGCATGGTTCTAAGTACTTTACTTGTATTATCCCATTTAATACTTAGAACAAACC  
CCGTGAGATAAGTAGTTATTATCCTCATTTTACACATGAGGGACCGAAGGATAGAAAAGTTATTTTTCA  
AAGGTCATGCAGTTAATAAATGGCAGAGTGAGCATTCAAGTCCAGGTAGTCATATTCAGAGGCCACGG  
TTTTAACCACTAGGCTCTAGAGCTCCCGCCGCGCCCTATGCATTATGTTCAAAATGCCAATCTAGATG  
CTTCTCTTTTGTATAAAGTCACTGACATTTCTTTAGAGTGGGTTGGGTGCATCCAAAAATGTATAAAAA  
TATTATTATAAATAAATCTACTGCTTGTAGGGTAATTCACAGTTACTTACCCTATTCTTGCTTGGAA  
CATGAGCCTGGAGACCCATGGCAGTCCATATGCCTCCCTATGCAGTGAAGGGCCCTAGCAGTGTTAA  
AATTGCTGAGATCCCACGGAGTCTTTCAAAAATCTCTGTAGAGTAGTCTTCTCTTTTCTTCTCTG  
GAAGTTCTCTGCCTGCATAACCACTTATTAGGGAGTACTTTACAAGCATGAAGGATATTAGGGTAAGT  
GGCTAATTATAAATCTACTCTAGAGACATATAATCATACAGATTATTCATAAAAATTTTTCTAGTGCTC  
CTTCCACATTTAATTGCATTTTGTCTCAAACTGTAGAATGCCCTACATTCCCCCACCCTAATTTGTAT  
TTCCTTATTAATAAGAAAATTATAGGCAAGATACAATTAATGCGTTCTCTTCTGAAATTATAACA  
TTTCTAAACTTACCCACGTAGGTACTACTGAATCCAAGTCCCAACAATAAAAAGACTTTTTATTAGTAG  
AGGCTACCTTTCCACCAGTGACTCTTTTTCTACAAGTGCCTTGTGAGTTGGTAATTCACTTATGATT  
TTCTAATGTTCTTGGTGAATTTTATTATCTGTACCCTCTTTTTTTTTTTTTTTTTTTTTTAAAGACA  
GAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAAGCTCTGCCTCCC  
GGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCATGCCCG  
GCTGATTTCTTTTTGTATTTTTAGTAGAGACGGAGTTTACCCTGTTAGCCAGGATGGTCTCGATCTCC  
TGACCTCGTGATCCGCCGCTTGGCCTCCAAAGTGTGGGATTACAGGTGTGAGCTACCGCGCCCGGC  
CTATTATCTTGTACTTTCTAACTGAGCCCTCTATTTTCTTTATTTTAAATAATATTTCTCCCCACTTGAG  
AATCACTTGTAGTTCTTGGTAGGAATTCAGTTGGGCAATGATAACTTTTATGGGCAAAAACATTCTAT  
TATAGTGAATAATGAAAATAACAGCGTATTTTCAATATTTTCTTATTCCCTAAATTCACCTCTTTTAA  
CACTATGCTTAACCACTAATGTGATGAAATATTCCTAAAAGTAAATGACTATTAAGCATATATTGT  
TGCATGTATATTAAGTAGCCGATACTCTAAATAAAAATACCACTGTTACAGATAAATGGGCGCTTTA  
AAAATATGAAAAACAACTTGTGAAAATGTATAAAAAGATGCATCTGTTGTTTCAAATGGCACTATCTTC  
TTTTCAGTACTACAAAAACAGAATAATTTTGAAGTTTTAGAATAAATGTAATATATTTACTATAAAAA  
AAAAAAAAAAAAAAAAAAGTCTGACTCTAGATTGCGGCCGC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_152999 unedited  
 TCAAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACCAGCTTGGGTAG  
 GCGGGGAAGCAGCTGGAGTGCACCCGCCGCGCAGCCACCCTGCAACCGCCAGTCGGAGG  
 TGCAGTCCGTAGGCCCTGGCCCCGGGTGGGCCCTTGGGGAGTCGGCGCCGCTCCCGGGG  
 AGCTGCAAGGCTCGCCCCGCCGGCTGGAGGGCGGGGGGCGCGGAGGATATTCTTG  
 GTGATCTTGGAAGTGTCCGTATCATGGAATCAATCTCTATGATGGGAAGCCCTAAGAGCC  
 TTAGTGAACCTTTTTACCTAATGGCATAAATGGTATCAAAGATGCAAGGAAGGTCAGTG  
 TAGGTGTGATTGGAAGTGGAGATTTTGCCAAATCCTTGACCATTGACTTATTAGATGCG  
 GCTATCATGTGGTCATAGGAAGTAGAAATCCTAAGTTTGCTTCTGAATTTTTTCCCTCATG  
 TGGTAGATGTCACCTCATCATGAAGATGCTCTCACAAAAACAAATAAATATTTGTTGCTA  
 TACACAGAGAACATTATACCTCCCTGTGGGACCTGAGACATCTGCTTGTGGGTAAATCC  
 TGATTGATGTGAGCAATAACATGAGGATAAACCAGTACCAGAATCCAATGCTGAATATT  
 TGGCTTCATTATCCCAGATTCTTTGATTGTCAAAGATTTAATGTTGTCTCAGCTTNGG  
 CACTTCAGTTAGGACCTAAGGATGCCAGCCGGCANGTTTATATATGCAGCAACAATATTC  
 AAGCGCGACAACAGGTTATTTGACTTGCCCGNCAGTTGAATNTCATTCCCATGACCTTG  
 GGATCCTTATCATCAGCCAGAGAGATTGAAAATTTACCCCTACGACTCTTACTCTCTGA  
 GAGGGCCAGTGGNTGGTAGCTATTAGCTGGNCCACCATTTTTTNCCTTNAATNCTTNGTCA  
 NAGATAGTGATCATCCATATGCTAGAACCAACAGAAAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_152999 unedited  
 CGCCAATACTGTGTANCGCGCCGTTTTCTGGGATCGGTTTTTTCTTTTTTTTTTTTTTTT  
 TTTTATAGTAAATATATTACATTTATTCTAAAACAGTCAAATTATCTGTTTTTGTAGTAC  
 TGAAAAAAGAAGTGCCATTTGAAACAACAGATGCATCTTTTATACATTTTACAAAGTTT  
 GTTTTTCATATTTTTAAAGGCCCATTTATCTGTAACAGTGGTATTTTTATTTAGAGTAT  
 CGGCTACTTAATATACATGCAACAATATATGCTTTAATAGTCATTTAACTTTTAGGAA  
 TATTTTCATCACATTAAGTGGTTAAGCATAGTGTAAAAGAGTGGAAATTAAGGAATAAGA  
 AAATATTGAAAAACGCTGTTATTTTTCTTATTAGTTCACTATAATAAAATGTTTTTGGCCAT  
 AAAAGTTATCATTGCCCACTGAATTTCTACCAAGAACTAACAAGTGATTCTCAAGTGGG  
 GAGAAATATTATTAATAAAAAAATAGAGGGCTCAGTTAGAAAAGTACAAGATAATAGG  
 CCGGGCGCGTTGCTCACACCGGTATCCCAACCCTTTGAGGCCCAAGCGGGCGGTTTAC  
 GAAGTCAAGGAATCCAAACCATCCCGGCTAACACCGGGAACTCCGTCTCTGCTGAAAAA  
 ACGAGAAGAAATCCCCCGGCATGGGGGCGGGCACCTGAGTCCCAGCTACCAGGGGCCGA  
 AGCCCGCAATGGAGTCGACCCCGGAGGCCAGACTCTGATTAACACGATTGAAAGCCA  
 TGAGCCACATACGTGAGGGCCANAAAAAATCAGACCATAAAAAAACAACCAACA  
 CACGAGCGCAAGAGGAAAAAAGAAATACCCGAAGAGAACATATAGAAGCGACAGGTGGAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_152999

**Insert Size:**

4455 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_152999.2</u>
<b>RefSeq Size:</b>	6857 bp
<b>RefSeq ORF:</b>	4455 bp
<b>Locus ID:</b>	261729
<b>UniProt ID:</b>	<u>Q8NFT2</u>
<b>Cytogenetics:</b>	7q21.13
<b>Domains:</b>	F420_oxidored
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	170.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1, 2 and 4 encode the same isoform.</p>