

Product datasheet for **SC311162**

STEAP2 (NM_001040665) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP2 (NM_001040665) 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)



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Fully Sequenced ORF: >SC311162 representing NM_001040665.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAATCAATCTCTATGATGGGAAGCCCTAAGAGCCTTAGTGAAACTTTTTACCTAATGGCATAAAT
GGTATCAAAGATGCAAGGAAGGTCAGTGTAGGTGTGATTGGAAGTGGAGATTTTGCCAAATCCTTGACC
ATTCGACTTATTAGATGCGGCTATCATGTGGTCATAGGAAGTAGAAATCCTAAGTTTGCTTCTGAATTT
TTTCTCATGTGGTAGATGTCACTCATCATGAAGATGCTCTACAAAAACAAATATAATATTGTGCT
ATACACAGAGAACATTATACCTCCCTGTGGGACCTGAGACATCTGCTTGTGGGTAATCCTGATTGAT
GTGAGCAATAACATGAGGATAAACCAGTACCCAGAATCCAATGCTGAATATTTGGCTTCATTATCCCA
GATTCTTTGATTGTCAAAGGATTTAATGTTGTCTCAGCTTGGGCACTTCAGTTAGGACCTAAGGATGCC
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TTGAATTTCAATCCCATTTGACTTGGGATCCTTATCATCAGCCAGAGAGATTGAAAATTTACCCCTACGA
CTCTTTACTCTCTGGAGAGGGCCAGTGGTGGTAGCTATAAGCTTGGCCACATTTTTTTCTTTATTCC
TTTGTCAGAGATGTGATTCATCCATATGCTAGAAACCAACAGAGTGACTTTTACAAAATTCCTATAGAG
ATTGTGAATAAAACCTTACCTATAGTTGCCATTACTTTGTCTCCCTAGTATACCTCGCAGGTCTCTG
GCAGCTGCTTATCAACTTTATTACGGCACCAAGTATAGGAGATTTCCACCTTGGTTGAAACCTGGTTA
CAGTGTAGAAAACAGCTTGGATTACTAAGTTTTTCTTCGCTATGGTCCATGTTGCCTACAGCCTCTGC
TTACCGATGAGAAGGTCAGAGAGATATTGTTTCTCAACATGGCTTATCAGCAGGTTTCATGCAAATATT
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TTGCCCTCAATTGTAATTCTGGGTAAGATTATTTTATTCCTTCCATGTATAAGCCGAAAGCTAAACGA
ATTAAAAAGGCTGGGAAAGAGCCAATTTCTGGAAGAAGGTATGGGAGGAACAATTCCTCATGTCTCC
CCGGAGAGGGTCACAGTAATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001040665

Insert Size: 1473 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).

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:	<u>NM_001040665.1</u>
RefSeq Size:	6708 bp
RefSeq ORF:	1473 bp
Locus ID:	261729
UniProt ID:	<u>Q8NFT2</u>
Cytogenetics:	7q21.13
Protein Families:	Transmembrane
MW:	56.1 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 (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same isoform.