

## Product datasheet for **SC329804**

### STEAP4 (NM\_001205315) Human Untagged Clone

#### Product data:

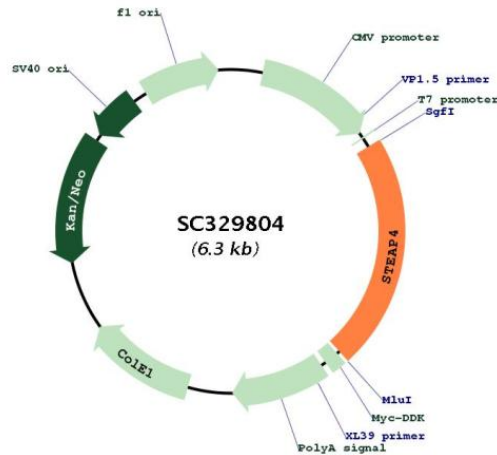
**Product Type:** Expression Plasmids  
**Product Name:** STEAP4 (NM\_001205315) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** STEAP4  
**Synonyms:** SchLAH; STAMP2; TIARP; TNFAIP9  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329804 representing NM\_001205315.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGAGAAAACCTGTATAGATGCACTTCCTCTTACTATGAATTCTTCAGAAAAGCAAGAGACTGTATGT
ATTTTTGGAAGTGGTGAATTTGGAAGATCACTGGGATTGAAAATGCTCCAGTGTGGTTATTTCTGTTGTT
TTTGAAGTCGAAACCCCGAGAAGACCACCCTACTGCCAGTGGTGCAGAAAGTCTTGAGCTATTCAGAA
GCAGCCAAGAAGTCTGGCATCATAATCATAGCAATCCACAGAGAGCATTATGATTTTCTCACAGAATTA
ACTGAGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAATCAATCAATATCCAGAA
TCTAATGCAGAGTACCTTGCTCATTGGTGCCAGGAGCCACGTGGTAAAAGCATTAAACACCATCTCA
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GCAGCCAAAGAAATTGAAAAGTACCCCTGCAGCTATTTCCAATGTGGAGTTCCCTTCTATTTGTCT
GCTGTGCTGTGTGCTTCTTGTTTTTCTATTGTGTTATAAGAGACGTAATCTACCCTTATGTTTATGAA
AAGAAAGATAATACATTCGTATGGCTATTTCCATTCAAATCGTATCTTCCAATAACAGCACTTACA
CTGCTTGCTTTGGTTTACCTCCCTGGTGTATTGCTGCCATTCTACAACGTACCGAGGCACAAAATAC
CGTCGATTCCCAGACTGGCTTGACCACTGGATGCTTTGCCGAAAGCAGCTTGGCTGGTAGCTCTGGGA
TTTGCTTCCTTCATGTCCTCTACACACTGTGATTCTTTCGATATTATGTACGATGGAGATTGGGA
AACTTAACCGTTACCCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCCTCAGCCTGGCTCAGT
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TCTGTTAGCAATGCAGTCAACTGGAGAGAGTTCGATTTGTCCAGTCCAAACTGGGTTATTTGACCTG
ATCTTGTGTACAGCCACACCCTGGTGTACGGTGGGAAGAGATTCTCAGCCCTTCAAATCTCAGATGG
TATCTTCTGCAGCCTACGTGTTAGGGCTATCATTCTTGCAGTGTGCTGGTATCAAGTTTGCCTA
ATCATGCCATGTGTAGACAACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAACTCAAACACTAG
```

**Restriction Sites:** Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001205315

**Insert Size:** 1380 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).

**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\\_001205315.1](#)

**RefSeq Size:** 4587 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 79689

**UniProt ID:** [Q687X5](#)

**Cytogenetics:** 7q21.12

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 52 kDa

**Gene Summary:** The protein encoded by this gene belongs to the STEAP (six transmembrane epithelial antigen of prostate) family, and resides in the golgi apparatus. It functions as a metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+), using NAD(+) as acceptor. Studies in mice and human suggest that this gene maybe involved in adipocyte development and metabolism, and may contribute to the normal biology of the prostate cell, as well as prostate cancer progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]  
Transcript Variant: This variant (2) contains an additional 5' non-coding exon, and has a longer 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).