

Product datasheet for **SC317754**

STEAP4 (NM_024636) Human Untagged Clone

Product data:

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|---------------------------|-----------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | STEAP4 (NM_024636) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | STEAP4 |
| Synonyms: | SchLAH; STAMP2; TIARP; TNFAIP9 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >SC317754 representing NM_024636.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAAAACCTTGATAGATGCACCTCCTTACTATGAATTCTTCAGAAAAGCAAGAGACTGTATGT
ATTTTTGGAACCTGGTGATTTTGGAAAGTCACTGGGATTGAAAATGCTCCAGTGTGGTTATCTGTGTT
TTTGGAAAGTCGAAACCCCGAGAAGACCCTACTGCCAGTGGTGCAGAAGCTTTGAGCTATTCAGAA
GCAGCCAAGAAGTCTGGCATCATAATCATAGCAATCCACAGAGAGCATTATGATTTTCTCACAGAATTA
ACTGAGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAATCAATCAATATCCAGAA
TCTAATGCAGAGTACCTTGCTCATTTGGTGCCAGGAGCCACGTGGTAAAAGCATTTAACACCATCTCA
GCCTGGGCTCTCCAGTCAAGGAGCACTGGATGCAAGTCGGCAGGTGTTTGTGTGGAAATGACAGCAAA
GCCAAGCAAAGAGTGATGGATATTGTTTCGTAATCTTGACTTACTCCAATGGATCAAGGATCACTCATG
GCAGCCAAGAAAATTGAAAAGTACCCCTGCAGCTATTTCCAATGTGGAGTTCCCTTCTATTTGTCT
GCTGTGCTGTGTCTTCTGTTTTTCTATTGTGTTATAAGAGACGTAATCTACCCTTATGTTTATGAA
AAGAAAAGATAATACATTTTCGTATGGCTATTTCCATTCCAATCGTATCTTTCCAATAACAGCACTTACA
CTGCTTGCTTTGGTTTACCTCCCTGGTGTATTGCTGCCATTCTACAACGTACCAGGCACAAAATAC
CGTCGATTCAGACTGGCTTGACCACTGGATGCTTTGCCGAAAGCAGCTTGGCTTGGTAGCTCTGGGA
TTTGCCTTCTTCATGCTCTACACACTTGTGATTCTATTTCGATATTATGTACGATGGAGATTGGGA
AACTTAACCGTTACCCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCCTCAGCCTGGCTCAGT
GATTCATATGTGGCTTTGGGAATACTTGGGTTTTTCTGTTTGTACTCTTGGGAATCACTTCTTTGCCA
TCTGTTAGCAATGCAGTCAACTGGAGAGAGTCCGATTTGTCCAGTCCAACTGGGTTATTTGACCCTG
ATCTTTGTACAGCCACACCCTGGTGTACGGTGGGAAGAGATTCTCAGCCCTTCAAATCAGATGG
TATCTTCTGCAGCCTACGTGTTAGGGCTTATCATTCTTGCAGTGTGCTGGTGATCAAGTTTGTCTTA
ATCATGCCATGTGTAGACAACACCCTTACAAGGATCCGCCAGGGCTGGGAAGGAACTCAAACACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_024636

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).

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).

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| Reconstitution Method: | <ol style="list-style-type: none">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_024636.3 |
| RefSeq Size: | 4488 bp |
| RefSeq ORF: | 1380 bp |
| Locus ID: | 79689 |
| UniProt ID: | Q687X5 |
| Cytogenetics: | 7q21.12 |
| Domains: | F420_oxidored |
| Protein Families: | Druggable Genome, Transmembrane |
| MW: | 52 kDa |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform.</p> |