

Product datasheet for **SC307536**

STEAP3 (NM_182915) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP3 (NM_182915) Human Untagged Clone
Tag:	Tag Free
Symbol:	STEAP3
Synonyms:	AHMIO2; dudlin-2; dudulin-2; pHyde; STMP3; TSAP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307536 representing NM_182915.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGCACCAGCCTGCTGTTGCCACAAAATGCCAGAAGAGATGGACAAGCCACTGATCAGCCTCCAC
CTGGTGGACAGCGATAGTAGCCTTGCCAAGGTCCCCGATGAGGCCCCAAAGTGGGCATCCTGGGTAGC
GGGGACTTTGCCCGCTCCCTGGCCACACGCTGGTGGGCTCTGGCTTCAAAGTGGTGGTGGGAGCCGC
AACCCCAAACGCACAGCCAGGCTGTTTCCCTCAGCGGCCCAAGTACTTTCCAAGAGGAGCAGTGAGC
TCCCCGGAGGTACTTTTGTGGCTGTGTTCCGGGAGCACTACTTCACTGTGCAGTCTCAGTGACCAG
CTGGCGGGCAAGATCCTGGTGGATGTGAGCAACCCACAGAGCAAGAGCACCTTCAGCATCGTGAGTCC
AATGCTGAGTACCTGGCCTCCCTCTTCCCCTGACAGTGGTCAAGGCCTTCAATGTCATCTCTGCC
TGGACCCTGCAGGCTGGCCAAGGGATGGTAACAGGCAGGTGCCATCTGCGGTGACCAGCCAGAAGCC
AAGCGTGTCTCGGAGATGGCGCTCGCCATGGGCTTCATGCCGTGGACATGGGATCCCTGGCGTCA
GCCTGGGAGGTGGAGGCCATGCCCTGCGCTCCTCCCGCTGGAAGGTGCCACCTGCTGGCCCTG
GGCTCTTCGTCTGCTTCTATGCCATAAATTCGTCCGGGACGTTCTGCAGCCCTATGTGCAGGAAAGC
CAGAACAAGTTCTTCAAGCTGCCCGTGTCCGTGGTCAACACCACACTGCCGTGCGTGGCCTACGTGCTG
CTGTCACTCGTGTACTTGCCCGCGTGCTGGCGCTGCCCTGCAGCTGCGGCGCGCACCAAGTACCAG
CGCTTCCCCGACTGGCTGGACCACTGGCTACAGCACCGCAAGCAGATCGGGCTGCTCAGCTTCTTCTGC
GCCGCCCTGCACGCCCTTACAGCTTCTGCTTGGCGCTGCGCCGCGCCACCGCTACGACCTGGTCAAC
CTGGCAGTCAAGCAGGTCTTGGCCAACAAGAGCCACCTCTGGGTGGAGGAGGAGTCTGGCGGATGGAG
ATCTACCTCTCCCTGGGAGTGTGGCCCTCGGCACGTTGTCCCTGCTGGCCGTGACCTCACTGCCGTCC
ATTGCAAACTCGCTCAACTGGAGGAGTTCAGCTTCGTTTCAGTCCCTCACTGGGCTTGTGGCCCTGCTG
CTGAGCAGACTGCACACGCTCACCTACGGCTGGACCCGCGCCTTCGAGGAGAGCCGCTACAAGTTCTAC
CTGCCCTCCACCTTACGCTCACGCTGCTGGTGCCTGCGTCTGTCATCCTGGCCAAGCCCTGTTTCTC
CTGCCCTGCATCAGCCGCACTCGCCAGGATCCGGAGAGGCTGGGAGAGGGAGAGCACCATCAAGTTT
ACGCTGCCACAGACCACGCCCTGGCCGAGAAGACGAGCCACGTATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_182915
- Insert Size:** 1497 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: [NM_182915.2](#)

RefSeq Size: 4285 bp

RefSeq ORF: 1497 bp

Locus ID: 55240

UniProt ID: [Q658P3](#)

Cytogenetics: 2q14.2

Protein Families: Transmembrane

Protein Pathways: p53 signaling pathway

MW: 55.7 kDa

Gene Summary: This gene encodes a multipass membrane protein that functions as an iron transporter. The encoded protein can reduce both iron (Fe³⁺) and copper (Cu²⁺) cations. This protein may mediate downstream responses to p53, including promoting apoptosis. Deficiency in this gene can cause anemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.