

Product datasheet for **MC216840**

Steap3 (NM_133186) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap3 (NM_133186) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Steap3
Synonyms:	1010001D01Rik; pHyde; Tsap6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216840 representing NM_133186
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGGGAGATGGACAAGCCGCTGATCAGCCGCCCTAGTGGACAGTGATGGCAGTCTGGCTGAGG
 TCCCAAGGAGGCCCAAGTGGGCATCCTGGCAGTGGGATTTTGCCGTTCCCTGGCCACACGCCT
 GGTGGGCTCTGGCTTCAGTGTGGTGGTGGGAGCCGTAACCCCAACGCACGGCTGGCCTTTCCCTCC
 TTAGCTCAAGTACTTTCCAGGAGGAAGCCGTGAGCTCTCCAGAGGTATCTTTGTGGCCGTGTTCCGGG
 AGCACTATTCTCACTGTGCAGTCTCGTGACCAGTTGGCTGGCAAGATCCTCGTGGATGTAAGCAACCC
 CACGGAGAAGGAGCATCTTCAGCACCGCCAGTCTAACGCTGAGTACCTGGCCTCACTTTTCCTGCGTGC
 ACTGTGGTGAAGGCCCTTCAACGTATCTCTGCATGGGCCCTACAGGCTGGCCCAAGGGATGGGAACAGGC
 AGGTGCTCATCTGCAGTATCAGCCAGAAGCCAAGCGCACCATCTCAGAGATGGCACGCGCCATGGGTTT
 CACACCCCTGGACATGGGATCCCTGGCCTCAGCGAGGGAGGTAGAAGCCATACCCCTGCGCCTCCTCCA
 TCCTGGAAGGTGCCACCCCTCCTGGCACTGGGGCTCTTTGTGTGCTTCTACACCTACAACCTCATCCGAG
 ACGTTCTACAGCCATACATTCGGAAGATGAGAACAAGTTCTACAAGATGCCCTTGTCTGTGGTCAACAC
 CAACTACCCTGTGTGGCTTATGTGCTGTCCCTAGTGTACCTGCCCGGTGTGCTGGCAGCTGCGCTT
 CAGCTGCGGAGGGGACCAAGTACCAGCGCTTCCAGACTGGCTGGACCACTGGCTGCAGCATCGCAAGC
 AGATCGGGCTGCTCAGCTTCTTCTCGCGATGTGCACGCTCTCTACAGTTCTGCTGCCGCTGCGCCG
 CTTCCACCGCTACGACCTGGTCAATCTGGCTGTGAAGCAGGTCTGGCCAACAAGAGCCGCTCTGGGT
 GAGGAAGAAGTCTGGAGGATGGAGATACCTGTCCCTGGGTGTGCTGGCCCTGGGCATGTTGTGCTGC
 TGGCTGTACCTCGTCCCGTCCATTGCTAATTCCTCAACTGGAAGGAGTTTCAGTTTCGTGCATCCAC
 ACTGGGCTTCGTGGCCCTGATACTCAGCACAAATGCACACTCACCTACGGCTGGACCCGTGCCTTTGAG
 GAAAACCACTACAAGTTCTACCTGCCGCCACATTCACACTCACGCTGCTCCTGCCCTGTGTGATATCC
 TGGCCAAGGGCTCTTCTCCTGCCCTGCCTCAACCGCAGACTACCAAGATACGCAGGGCTGGGAGAA
 AGATGGGGCTGTCAAGTTCATGTGCCCGCGACCACACAGGGGGAGAAAACAAGCCACGTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_133186
- Insert Size:** 1467 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_133186.3](#), [NP_573449.2](#)

RefSeq Size: 2769 bp

RefSeq ORF: 1467 bp

Locus ID: 68428

UniProt ID: [Q8CI59](#)

Cytogenetics: 1 E2.3

Gene Summary: Endosomal ferrireductase required for efficient transferrin-dependent iron uptake in erythroid cells. Participates in erythroid iron homeostasis by reducing Fe(3+) to Fe(2+). Also mediates reduction of Cu(2+) to Cu(1+), suggesting that it participates in copper homeostasis. Uses NADP(+) as acceptor. May play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression. Indirectly involved in exosome secretion by facilitating the secretion of proteins such as TCTP.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.