

## Product datasheet for **MC216839**

### Steap3 (NM\_001085409) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Steap3 (NM_001085409) 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:** >MC216839 representing NM\_001085409  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGGGGAGATGGACAAGCCGCTGATCAGCCGCCCTAGTGGACAGTGATGGCAGTCTGGCTGAGG  
 TCCCAAGGAGGCCCAAGTGGGCATCCTGGGCAGTGGGGATTTTGCCGTTCCCTGGCCACACGCCT  
 GGTGGGCTCTGGCTTCAGTGTGGTGGTGGGAGCCGTAACCCCAACGCACGGCTGGCCTCTTCCCTCC  
 TTAGCTCAAGTACTTTCCAGGAGGAAGCCGTGAGCTCTCCAGAGGTATCTTTGTGGCCGTGTTCCGGG  
 AGCACTATTCTCACTGTGCAGTCTCGTGACCAGTTGGCTGGCAAGATCCTCGTGGATGTAAGCAACCC  
 CACGGAGAAGGAGCATCTTCAGCACCGCCAGTCTAACGCTGAGTACCTGGCCTCACTCTTCTCGCTGC  
 ACTGTGGTGAAGGCCCTCAACGTCATCTCTGCATGGGCCCTACAGGCTGGCCCAAGGGATGGGAACAGGC  
 AGGTGCTCATCTGCAGTATCAGCCAGAAGCCAAGCGCACCATCTCAGAGATGGCACGCGCCATGGGTTT  
 CACACCCCTGGACATGGGATCCCTGGCCTCAGCGAGGGAGGTAGAAGCCATACCCCTGCGCTCCTTCCA  
 TCCTGGAAGGTGCCACCCCTCCTGGCACTGGGGCTCTTTGTGTGCTTCTACACCTACAACCTCATCCGAG  
 ACGTTCTACAGCCATACATTCGGAAGATGAGAACAAGTTCTACAAGATGCCCTTGTCTGTGGTCAACAC  
 CAACTACCCTGTGTGGCTTATGTGCTGTCCCTAGTGTACCTGCCCGGTGTGCTGGCAGCTGCGCTT  
 CAGCTGCGGAGGGGACCAAGTACCAGCGCTTCCAGACTGGCTGGACCACTGGCTGCAGCATCGCAAGC  
 AGATCGGGCTGCTCAGCTTCTTCTCGCGATGCTGCACGCTCTCTACAGTTCTGCTGCCGCTGCGCCG  
 CTTCCACCGCTACGACCTGGTCAATCTGGCTGTGAAGCAGGTCTGGCCAACAAGAGCCGCTCTGGGT  
 GAGGAAGAAGTCTGGAGGATGGAGATACCTGTCCCTGGGTGTGCTGGCCCTGGGCATGTTGTGCTGC  
 TGGCTGTACCTCGTCCCGTCCATTGCTAATTCCTCAACTGGAAGGAGTTCAGTTCTGTCATCCAC  
 ACTGGGCTTCGTGGCCCTGATACTCAGCACAATGCACACTCACCTACGCTGGACCCGCTGCTTTGAG  
 GAAAACCACTACAAGTTCTACCTGCCGCCACATTCACACTCACGCTGCTCCTGCCCTGTGTGATATCC  
 TGGCCAAGGGCTCTTCTCCTGCCCTGCCTCAACCGCAGACTACCAAGATACGCAGGGCTGGGAGAA  
 AGATGGGGCTGTCAAGTTCATGTGCCCGGCCACACACAGGGGGAGAAAACAAGCCACGTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001085409
- 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\\_001085409.1](#), [NP\\_001078878.1](#)

RefSeq Size: 3142 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 (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.