

Product datasheet for **MR217998**

Steap3 (NM_133186) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR217998 representing NM_133186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGGGAGATGGACAAGCCGCTGATCAGCCGCCCTAGTGACAGTGATGGCAGTCTGGCTGAGG
 TCCCAAGGAGGCCCAAGTGGGCATCTGGCAGTGGGATTTTCCCGTTCCCTGGCCACACGCCT
 GGTGGGCTCTGGCTTCAGTGTGGTGGTGGGAGCCGTAACCCAAACGCACGGCTGGCCTCTTCCCTCC
 TTAGCTCAAGTACTTTCCAGGAGGAAGCCGTGAGCTCTCCAGAGGTATCTTTGTGGCCGTGTTCCGGG
 AGCACTATTCTCACTGTGCAGTCTCGTGACCAGTTGGCTGGCAAGATCCTCGTGGATGTAAGCAACCC
 CACGGAGAAGGAGCATCTTCAGCACCGCCAGTCTAACGCTGAGTACCTGGCCTCACTCTTCTCGCTGC
 ACTGTGGTGAAGGCCCTCAACGTCATCTCTGCATGGGCCCTACAGGCTGGCCCAAGGGATGGGAACAGGC
 AGGTGCTCATCTGCAGTATCAGCCAGAAGCCAAGCGCACCATCTCAGAGATGGCACGCGCCATGGGTTT
 CACACCCCTGGACATGGGATCCCTGGCCTCAGCGAGGGAGGTAGAAGCCATACCCCTGCGCCTCCTCCA
 TCCTGGAAGGTGCCACCCCTCCTGGCACTGGGGCTCTTTGTGTGCTTCTACACCTACAACCTCATCCGAG
 ACGTTCTACAGCCATACATTCCGAAAGATGAGAACAAGTTCTACAAGATGCCCTTGTCTGTGGTCAACAC
 CACACTACCCTGTGTGGCTTATGTGCTGCTGTCCCTAGTGTACCTGCCCGGTGTGCTGGCAGCTGCGCTT
 CAGCTGCGGAGGGGGACCAAGTACCAGCGCTTCCCAGACTGGCTGGACCACTGGCTGCAGCATCGCAAGC
 AGATCGGGCTGCTCAGCTTCTTCTCGCGATGCTGCACGCTCTCTACAGTTCTGCTGCCGCTGCGCCG
 CTTCCACCGCTACGACCTGGTCAATCTGGCTGTGAAGCAGGTCTGGCCAACAAGAGCCGCTCTGGGCT
 GAGGAAGAAGTCTGGAGGATGGAGATACCTGTCCCTGGGTGTGCTGGCCCTGGGCATGTTGTGCTGCTG
 TGGCTGTACCTCGTCCCGTCCATTGCTAATTCCTCAACTGGAAGGAGTTCACTTCTGTCAGTCTCCAC
 ACTGGGCTTCGTGGCCCTGATACTCAGCACAAATGCACACACTCACCTACGGCTGGACCCGCTGCCTTTGAG
 GAAAACCACTACAAGTTCTACCTGCCGCCACATTACACTCACGCTGCTCCTGCCCTGTGTGATCATCC
 TGGCCAAGGGCCTCTTCTCCTGCCCTGCCTCAACCGCAGACTACCAAGATACGCAGGGGCTGGGAGAA
 AGATGGGGCTGTCAAGTTCATGTGCCCGGCGACCACACAGGGGGAGAAAACAAGCCACGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217998 representing NM_133186
 Red=Cloning site Green=Tags(s)

MSGEMDKPLISRRLVDSGSLAEVPKEAPKVGILGSGDFARSLATRLVSGSFVSVVGSRNPKRTAGLFPS
 LAQVTFQEEAVSSPEVIFVAVFREHYSSLCSLADQLAGLILVDVSNPTEKEHLQHRQSNAEYLASLFPAC
 TVVKAFNVI SAWALQAGPRDGNRQVLCISDQPEAKRTISEMARAMGFTPLDMGSLASAREVEAIPLRLLP
 SWKVPTLLALGLFVCFYTYNFIIRDVLPYIRKDNKFKYMPLSVVNTTLLPCVAYVLLSLVYLPGLAAAL
 QLRRGTYQRFDPDLHWLQHRQIIGLLSFFFAMLHALYSFCLPLRRSHRYDLVNLAVKQVLANKSRLWA
 EEEVWRMEIYLSLGVLALGMLSLAVTSLPSIANSLNWKEFSFVQSTLGFVALILSTMHTLYGWTRAFE
 ENHYKFYLPPTFTLLLLPCVIIILAKGLFLLPCLNRRLTKIRRGWEKDGAVKFMPLPGDHTQGEKTSHV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9028_g12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133186

ORF Size: 1464 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_133186.4](#)
RefSeq Size: 2769 bp

RefSeq ORF: 1467 bp

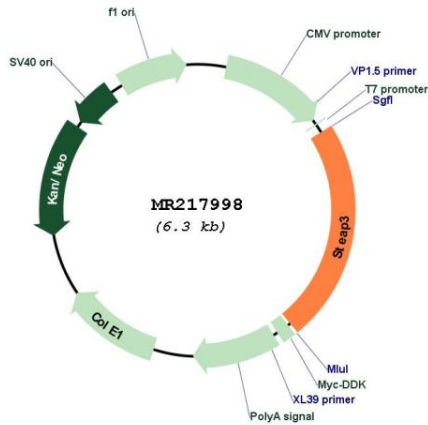
Locus ID: 68428

UniProt ID: [Q8CI59](#)
Cytogenetics: 1 E2.3

MW: 55.2 kDa

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]

Product images:



Circular map for MR217998