

Product datasheet for **MG207812**

Steap3 (BC037435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap3 (BC037435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Steap3
Synonyms:	Tsap6, pHyde
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207812 representing BC037435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGGGAGATGGACAAGCCGCTGATCAGCCGCCCTAGTGGACAGTGATGGCAGTCTGGCTGAGG
 TCCCAAGGAGGCCCAAGTGGGCATCTGGGCAGTGGGATTTTGCCGTTCCCTGGCCACACGCCT
 GGTGGGCTCTGGCTTCAGTGTGGTGGTGGGAGCCGTAACCCAAACGCACGGCTGGCCTTTCCCTCC
 TTAGCTCAAGTACTTTCCAGGAGGAAGCCGTGAGCTCTCCAGAGGTATCTTTGTGGCCGTGTTCCGGG
 AGCACTATTCTCTGTGCACTCTCGTGACCAGTTGGCTGGCAAGATCCTCGTGGATGTAAGCAACCC
 CACGGAGAAGGAGCATCTTCAGCACCGCCAGTCTAACGCTGAGTACCTGGCCTCACTCTTCTGCGTGC
 ACTGTGGTGAAGGCTTCAACGTCATCTCTGCATGGGCCCTACAGGCTGGCCCAAGGGATGGGAACAGGC
 AGGTGCTCATCTGCAGTATCAGCCAGAAGCAAGCGCACCATCTCAGAGATGGCACGCGCCATGGGTTT
 CACACCCCTGGACATGGGATCCCTGGCCTCAGCGGGGAGGTAGAAGCCATACCCCTGCGCTCCTTCCA
 TCCTGGAAGGTGCCACCCCTCCTGGCACTGGGGCTTTTTGTGTGCTTCTACACCTACAACCTCATCCGGG
 ACGTTCTACAGCCATACATTCGGAAGATGAGAACAAGTTCTACAAGATGCCCTTGTCTGTGGTCAACAC
 CACACTACCCTGTGTGGCTTATGTGCTGCTGTCCCTAGTGTACCTGCCCGGTGTGCTGGCAGCTGCGCTT
 CAGCTGCGGAGGGGGACCAAGTACCAGCGTTTCCAGACTGGCTGGACCACTGGCTGCAGCATCGCAAGC
 AGATCGGGCTGCTCAGCTTCTTCTCGCGATGCTGCACGCTCTCTACAGTTCTGCTGCCGCTGCGCCG
 CTCCCACCGCTATGACCTGGTCAATCTGGCTGTGAAGCAGTCTGGCCAACAAGAGCCGCTCTGGGTT
 GAGGAAGAAGTCTGGAGGATGGAGATACCTGTCCCTGGGTGTGCTGGCCCTGGGATGTTGTGCTGCTGC
 TGCTGTACCTCGCTCCCGTCCATTGCTAATTCCTCAACTGGAAGGAGTTCACTTTGTGCGATCCAC
 ACTGGGCTTCGTGGCCCTGATACTCAGCACAAATGCACACACTCACCTACGGCTGGACCCGTCCTTTGAG
 GAAAACCACTACAAGTTCTACCTGCCGCCACATTCACACTCACGCTGCTCCTGCCCTGTGTGATCATCC
 TGGCCAAGGGCTCTTCTCCTGCCCTGCCTCAGCCGAGACTACCAAGATCCGCAGGGGCTGGGAGAA
 AGATGGGGCTGTCAAGTTCATGTGCCCGGCGACCACACAGGGGGAGAAAACAAGCCACGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207812 representing BC037435
 Red=Cloning site Green=Tags(s)

MSGEMDKPLISRRLVDSGSLAEVPKEAPKVGILGSGDFARSLATRLVSGSFVSVVGSRNPKRTAGLFPS
 LAQVTFQEEAVSSPEVIFVAVFREHYSSLCSLADQLAGKILVDVSNPTEKEHLQHRQSNAEYLASLFPAC
 TVVKAFNVISAWALQAGPRDGNRQVLICSDQPEAKRTISEMARAMGFTPLDMGSLASAREVEAIPLRLLP
 SWKVPTLLALGLFVCFYTYNFIIRDVLQPYIRKDNKFKMPLSVVNTTLPVAVYVLLSLVYLPGLVLAAL
 QLRRGTYQRFPDWLDHWLQHRKQIGLLSFFFAMLHALYSFCLPLRRSHRYDLVNLAVKQVLANKSRLWV
 EEEVWRMEIYLSLGVLALGMLSLAVTSLPSIANSLNWKEFSFVQSTLGFVALILSTMHTLYGWTRAFE
 ENHYKFYLPPTFTLLLLPCVIIILAKGLFLLPCLSRRLTKIRRGWEKDGAVKFMPLPGDHTQGEKTSHV

TRTRPLE – GFP Tag – V

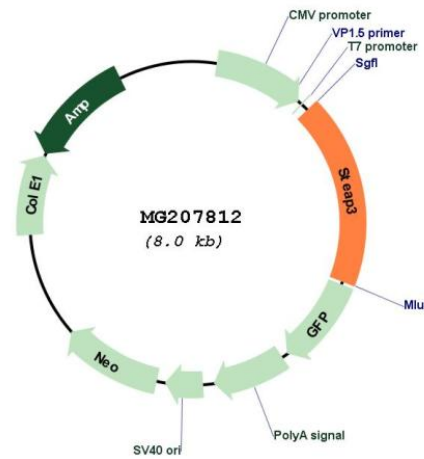
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC037435

ORF Size: 1466 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: [BC037435](#), [AAH37435](#)

RefSeq Size: 1760 bp

RefSeq ORF: 1466 bp

Locus ID: 68428

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]