

Product datasheet for **RG210595**

STEAP3 (NM_001008410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP3 (NM_001008410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STEAP3
Synonyms:	AHMIO2; dudlin-2; dudulin-2; pHyde; STMP3; TSAP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210595 representing NM_001008410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGAAGAGATGGACAAGCCACTGATCAGCCTCCACCTGGTGACAGCGATAGTAGCCTTGCCAAGG
 TCCCCGATGAGGCCCCAAAGTGGGCATCCTGGGTAGCGGGACTTTGCCGCTCCCTGGCCACAGCCT
 GGTGGGCTCTGGCTTCAAAGTGGTGGTGGGAGCCGCAACCCAAACGCACAGCCAGGCTGTTTCCCTCA
 GCGGCCAAAGTACTTTCAAAGAGGAGGAGTGAAGTCCCGGAGGTATCTTTGTGGCTGTGTTCCGGG
 AGCACTACTCTTCACTGTGCACTCAGTGAACAGCTGGCGGCAAGATCCTGGTGGATGTGAGCAACCC
 TACAGAGCAAGAGCACCTTCAGCATCGTGAATGCTGAGTACCTGGCCTCCCTCTTCCCACTTGC
 ACAGTGGTCAAGGCCCTCAATGTCATCTCTGCCTGGACCCTGCAGGCTGGCCCAAGGATGGTAACAGGC
 AGGTGCCATCTGCGGTGACCAGCCAGAAGCCAAGCGTGTCTCGGAGATGGCGCTCGCCATGGGCTT
 CATGCCCGTGGACATGGGATCCCTGGCGTCAGCCTGGGAGGTGGAGGCCATGCCCTGCGCTCCTCCCG
 GCCTGGAAGGTGCCACCTGCTGGCCCTGGGGCTCTTCTGTCTGCTTCTATGCCTACAACCTCGTCCGGG
 ACGTTCTGCAGCCCTATGTGCAGGAAAGCCAGAACAAGTTCTTCAAGCTGCCCGTGTCCGTGGTCAACAC
 CAACTGCCGTGCGTGGCCTACGTGCTGCTGCTACTCGTGTACTTGGCCGGCTGCTGGCGGCTGCCCTG
 CAGCTGCGGCGCGGCCAACAGTACCAGCGCTTCCCGACTGGCTGGACCCTGGCTACAGCACCGCAAGC
 AGATCGGGCTGCTCAGCTTCTTCTGCGCCGCCCTGCACGCCCTCTACAGCTTCTGCTTGGCGCTGCGCCG
 CGCCACCGCTACGACCTGGTCAACCTGGCAGTCAAGCAGGTCTTGGCCAACAAGAGCCACCTCTGGGTG
 GAGGAGGAGTCTGGCGGATGGAGATCTACCTCCTGGGAGTGTGGCCCTCGGCACGTTGTCCCTGC
 TGCCCTGACCTACTGCCGTCCATTGCAAACCTCGTCAACTGGAGGGAGTTAGCTTCTGTTCACTCCTC
 ACTGGGCTTTGTGGCCCTCGTGTGAGCACACTGCACACGCTCACCTACGGCTGGACCCGCGCCTTCGAG
 GAGAGCCGCTACAAGTTCTACCTGCCTCCACCTTACGCTCACGCTGCTGGTGCCTGCGTCTGATCC
 TGGCCAAAGCCCTGTTTCTCCTGCCCTGCATCAGCCGAGACTCGCCAGGATCCGGAGAGGCTGGGAGAG
 GGAGAGCACCATCAAGTTCACGCTGCCACAGACCAGCCCTGGCCGAGAAGACGAGCCACGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210595 representing NM_001008410
 Red=Cloning site Green=Tags(s)

MPEEMDKPLISLHLVDSDSLAKVPDEAPKVGILGSGDFARSLATRLVSGFKVVVGSRNPKRTARLFPS
 AAQVTFQEEAVSSPEVIFVAVFREHYSSLCSLSDQLAGKILVDVSNPTEQEHQHRESNAEYLASLFPTC
 TVVKAFNVISAWTLQAGPRDGNRQVPICGDQPEAKRAVSEMALAMGFMPVDMGSLASAWVEAMPLRLLP
 AWKVPTLLALGLFVCFYAYNFVRDVLQPYVQESQNKFFKLPVSVVNTTLPVAVYVLLSLVYLPGLVLAAL
 QLRRGTYQRFDPWLDHWLQHRKQIGLLSFFCAALHALYSFCLPLRRAHRYDLVNLAVKQVLANKSHLWV
 EEEVWRMEIYLSLGVLALGTLSELLAVTSLPSIANSLNWRFSFVQSSLGFVALVLSLHLLTYGWTRAFE
 ESRYKFYLPPTFTLLVPCVVILAKALFLLPCISRRRLARIRRGWERESTIKFTLPTDHALAEKTSHV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001008410.1](#), [NP_001008410.1](#)

RefSeq Size: 3870 bp

RefSeq ORF: 1467 bp

Locus ID: 55240

UniProt ID: [Q658P3](#)

Cytogenetics: 2q14.2

Protein Families: Transmembrane

Protein Pathways: p53 signaling pathway

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]