

Specifications:

Gene:	hSTEAP3
Accession:	NP_878919
Insert size:	1509bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

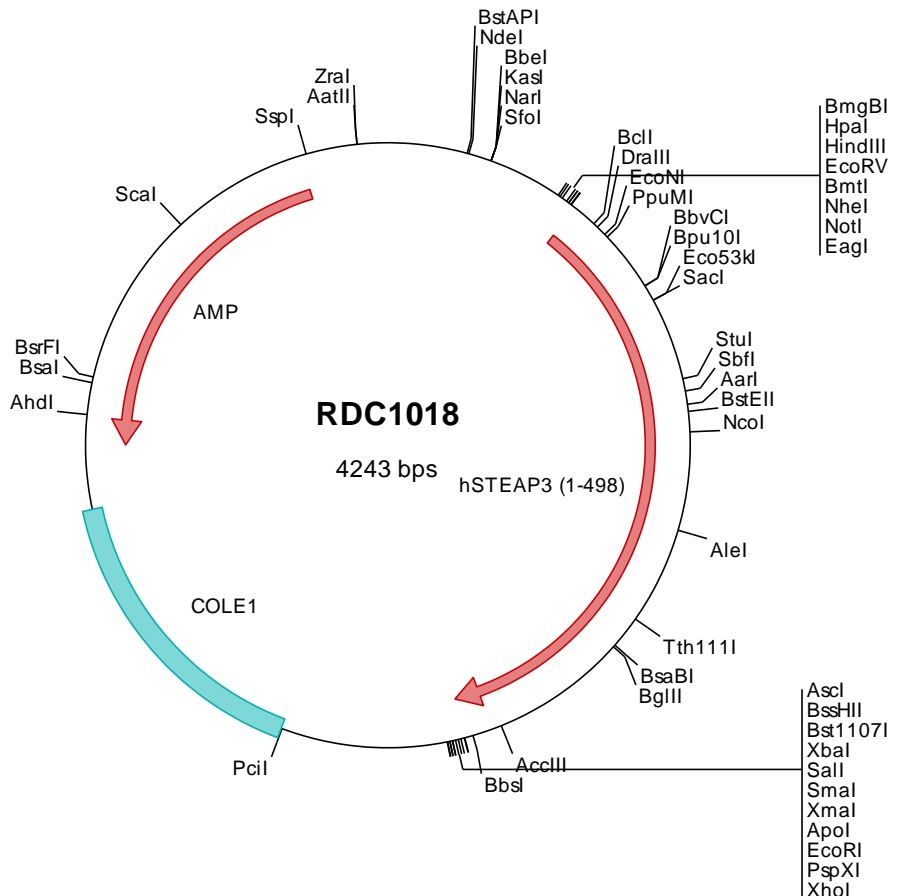
hSTEAP3/TSAP6 cDNA Plasmid

STEAP3 STEAP family member 3,
metalloreductase [*Homo sapiens* (human)]

Also known as: STMP3; TSAP6;
AHMIO2; dudlin-2

Summary:

STEAP3 participates in erythroid iron homeostasis by reducing iron and may also reduce copper, suggesting that it participates in copper homeostasis. STEAP3 is highly expressed in hematopoietic tissues and colocalizes with the transferrin endosome. It may play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression. Alternatively spliced transcripts encoding different proteins have been described.





> RDC1018 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tegggtctgg cttactatg cggcatcaga gcagattgta ctgagagtgcc accatattgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgtcgacc agcctgctgt tgccaccaaa atgccagaag agatggacaa
501 gccaactgac agcctccacc tgggggacag cgatagtagc cttgccaaagg tcccgatga gccccccaaa gtgggcatcc tgggtagcgg ggaacttgcc
601 cgctccctgg ccacacgctt ggtgggctct ggttccaaag ttggtggggg gagccgcaac cccaaacgca cagccaggtt gtttccctca gcggcccaag
701 tgactttcca agaggaggca gtgagctccc cggaggtoat ctttgtggct gtgttccggg agcaactactc ttcactgtgc agtctcagtg accagctggc
801 gggcaagatc ctggtggatg tgagcaacc tacagagcaa gagcaccttc agcatcgtga gtccaatgct gactacctgg cctccctctt ccccacttgc
901 acagtggtca aggccttcaa tgtcatctct gctgggacc tgcaggctgg ccaagggat ggtaacaggg aggtgccat ctgcggtgac cagccagaag
1001 ccaagcgtgc tgtctcggag atggcctcgc coattggctt catgccctg gacatgggat cctggcgctc agcctggggg gtggaggcca tgcctctgag
1101 cctcctcccg gctggaagg tgcccacct gctggccctg gggctctctg tctgctteta tgctacaac ttcgtccggg acgttctgca gcctatgtg
1201 caggaaagcc agaacaagtt ctcaagctg cccgtgtccg tggtaaacac caactgccc tgctggcct acgtgctgct gtaactctgt tacttgcccg
1301 gcgtgctggc ggtgcctcgc cagctgccc gcggaccaaa gtaccagcgc tcccgcgat ggctggacca ctggctacag caccgcaagc agatcggggc
1401 gctcagcttc tctgcccgc ccctcacgc cctctacagc tctgcttgc cgtcggcggc gcgccaccgc tacgacctgg tcaacctggc agtcaagcag
1501 gtcttggcca acaagagcca cctctgggtg gaggaggagg totggcggat ggagatctac ctctccctgg gactgctggc cctcggcaagc ttgtccttgc
1601 tggcctgac ctcaactcgc tccattgcaa actcgtcaa ctggaggagg ttcagctctc ttcagctctc actgggcttt gtggccctcg tctgtagcac
1701 actgcaacgc ctcaactcag gctggaccgg cgcctcagag acaagttota cctgcctccc acctcaccg tcaagctgct ggtgcccctgc
1801 gtcgtcaatc tggccaaaag cctgttcttc ctgcctgca tcagcccgag actcgcagg atccggagag gctgggagag ggagagcacc atcaagttca
1901 cgctgcccac agaccacgcc ctggccgaga agacagacca cgtatgaggc ggcagat actctagagt cgacaccgg ggaattcttc gagcgtcgt
2001 ctctagcttg gcgtaatcat ggtcatagct gtttctctg tgaaaattgt atccgctcac aattccacac aacatacagag ccggaagcat aaagtgtaaa
2101 gcctgggggtg cctaatagat gagctaactc acattaattg cgttgcgctc actgcccgcct tccagctcgg gaaacctgtc gtgccagctg cattaatgaa
2201 tcggccaacg cgcggggaga ggcggtttgc gtattggggc tcttccctgc tccctcgtca ctgactcgtc gcgctcggtc gttcggctgc ggcgagcggg
2301 atcagctcac tcaaaaggcg taatacggtt atccacgaa tcaggggata cagcaggaaa gaacatgtga gcaaaaaggc cagaaaacct caggaacctg
2401 aaaaaggccg cgttgcctggc gtttttccat aggcctccgc cccctgacga gcatcaca aaatcgacct caagtcaag gtggcgaaac ccgacaggac
2501 tataaagata ccaggcgttt cccctggaa gctcctctg gcgctctct gttccgacc tgccgcttac cggatactg tccgcttctc tccctcggg
2601 aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcgttgc aggtcgttgc ctccaagctg ggctgtgtgc acgaaccccc cgttcaagcc
2701 gaccgctcgc cttatcccg taactatcgt cttgagttca acccggtaag acacgactta tcgccaactg cagcagccac tggtaacagg attagcagag
2801 cgaggtatgt aggcggtgct acagagttct tgaagtggg gcctaactac ggctacacta gaaggacatg atttggatc tgcgctctgc tgaagccagt tgaagccagt
2901 taccttcgga aaaagagttg gttagctctg atccggcaaa caaacaccgc ctggtagcgg tggttttttt gtttgcgaag agcagattac gcgcagaaaa
3001 aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa
3101 ggatcttcc ctatagctct taaatataa aatgaagttt taaatcaatc taaagatat atgagtaaac ttggtctgac agttaccaat gcttaatcag
3201 tgaggcaacct atctcagcga tctgtctatt tcggtcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc
3301 cccagtgctg caatgatacc gcgagacc caactcaccgc ctccagatt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggctcgt
3401 caactttatc cgcctccatc cagtctatta atgttggcc ggaagtaga gtaagtagtt cgcagttaa tagtttgcgc aacgttgtt gcaattgtc
3501 aggcacgtgc gtgtocagct cgtcgtttgg tatggcttca ttcagctcgc gttcccacgc atcaaggcga gttacatgat cccccatggt gtgcaaaaaa
3601 gcggttagct ccttgcgtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatgggta tggcagcact gcataattct cttactgta
3701 tgccatccgt aagatgctt tctgtgactc gtgagtaact tctgagatc agtgtatgc gcgaccgag tgcctcttgc cgcgtctaac ggcgtcaat
3801 accgggataat accgcccacc atagcagaac tttaaaagt ctcacatgt gaaaacgttc ttcggggcga aaactctcaa gactcttacc gctgttgaga
3901 tccagttcga tgaaccacc tcgtgcacc aactgatctt cagcatctt taacttccac agcgtttctg ggtgagcaaa aacaggaagc caaaatgccg
4001 caaaaaagg aataaggggc acacggaaat gttgaatact ctactcttc atttattgaag catttatcag gcttattgag ctaatgagcg ctaatgagcg
4101 atacataatt gaatgtattt agaaaaataa caaaaatagg gttccgcgca catttccccg aaaagtgcga cctgacgtct aagaaacat tattatcatg
4201 acattaacct ataaaaatag cgtatcacg aggcctttc gtc

> RDC1018 Translated Insert Sequence

1 mshqpavatk mpeemdckpli slhlvdsdss lakvpdeapkv vgilsgdffa rslatrlvgs gfkvvvgsrn pkrtarlfps aaqvtfqeea vsspevifva
101 vfrehysslc slsdqlagki lvdvsnpteq ehlqhresna eylaslftpc tvvkafnvis awtlqagprd gnrvpicgd qpeakravse malamgmpv
201 dmgsilasawe veamplrlp awkvtllal glfvcfyayn fvrdrvlpqv qesgnkffkl psvvnttlp cvayvllslv ylpvglaaal qlrrgtkyqr
301 fpdwlhdhwlq hrkqigllsf fcaalhalys fcplrrahr ydlvnlavkq vlnkshlww eeevwrmeiy lslglvalgt lsllavtslp sianslnwre
401 fsfvqsslglf valvlstlht ltygwtrafe esrykfylyp tftlltlvpc vvilakalfl lpcisrrlar irrgrwerest ikftlptdha laektshv