

Product datasheet for **RN215648**

Steap4 (NM_001044265) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap4 (NM_001044265) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Steap4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215648 representing NM_001044265
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAGACGTGTGCAGATGAGTTTCCTCTGACTGTGGATTCCTCAGAAAAGCAAGCGTTGTCTGCA
 TTTTCGGAACAGGGGATTTTCGGGAAATCATTGGGGTTGAAAATGCCTCAGTGTGGCTATTCTGTTGTTTT
 CGGGAGTCGAAACCCCGAGTATCCAGCCTTCTGCCAGGGGAGCAGAGGTCCTGTGCTACTCAGAAAGCA
 GCATCGAGGTCTGACGTATAGTCTGGCCGTGCACAGAGCATTATGATTTCTCGCAGAATTAGCTG
 ATTCTCTCAAAGGAAGAGTATTGATAGATGTCAGTAACAACCAAAAAATGAATCAGTATCCAGAATCAAA
 CGCCGAGTACCTTGCTCAGCTGGTACCAGGAGCCACGTGGTCAAGGCATTTAACACCATCTCAGCCTGG
 GCTCTCCAGTCAGGAACACTAGATGCAAGTCGGCAGGTGTTTGTCTGTGGAAATGACAGCAAAGCCAAGG
 ACAGAGTATGGACATTGCTCGCACTCTGGGCTCACTCCACTGGATCAAGGATCTCTCGTGGCAGCCAA
 GGAAATTGAAAACCTCTGCAACTATTTCCATGTGGAGTTCCTTTCTACTTGTCTCTGGGCTG
 TCGCTCTTCTTTGTGTACTGCGCTATACGGGAAGTATATCCCTACGTGACTGGGAAGACAGATA
 GTACGTACCGCCTGGTTGTTCCATCCCGAATCGTGTCTTTCCTATAACAGCACTTACCCTGCTGGCGTT
 GGTGTACCTCCCTGGTATTCTCGCCGCCATTTGCAGCTCTACCGAGGCACAAAGTACCGCCGATTTCCCA
 AACTGGCTTGACCATTGGATGCTTTCAGAAAGCAACTGGGCTTGGTAGCTCTGGGATTTGCCTTCTTC
 ACGCCATCTACACCCTTGATTCTTCTTACTACGTACGATGGAGGCTGAGAAACGCGACCATTAC
 TCAGGCCCTAACTAATAAAGACAGCCATTTCAGTTCCTCTACTGCCTGGCTCAGTATTCTATCTGGCC
 CTGGGAATCTGGGATTTTTCTGTTTCTCTCTGGGAATCACTTCTTGCATCAGTAAGCAACATGG
 TCAACTGGAGAGAGTTCGGTTTGTCCAGTCCAACTGGGTTATCTGACCCTGGTCTTGTGCACAGCCCA
 CACTTTGGTGTATGGTGGAAAGAGATTCCTCAGCCCTTCAATTCTAATATGGAGCCTTCTTCAGCCTAT
 ATTCTGGCGCTCATCATCCCTGCACAGTGTGGTGTGAAAGTTTATCCTCATCATGCCGTGCATAGACA
 AGACCCTCAGCGCATCCGCCAGGGCTGGGAAAGGAAGTCAAAATATGCACAATCAACACTGAACGGAAA
 ATCGGATATT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001044265

Insert Size: 1413 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_001044265.1](#), [NP_001037730.1](#)

RefSeq Size: 3112 bp

RefSeq ORF: 1413 bp

Locus ID: 499991

UniProt ID: [Q4V8K1](#)

Cytogenetics: 4q12

Gene Summary: Integral membrane protein that functions as NADPH-dependent ferric-chelate reductase, using NADPH from one side of the membrane to reduce a Fe(3+) chelate that is bound on the other side of the membrane. Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (PubMed:23733181). Can also reduce Cu(2+) to Cu(1+) (PubMed:23733181). Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (By similarity). Associated with obesity and insulin-resistance (By similarity). Involved in inflammatory arthritis, through the regulation of inflammatory cytokines (By similarity). Inhibits anchorage-independent cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]