

Product datasheet for **MR207521**

Steap4 (NM_054098) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap4 (NM_054098) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Steap4
Synonyms:	1110021O17Rik; AI481214; Tiarp; Tnfaip9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207521 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAAGCACATGCAGATGAGTTTCTCTGACTACTGATTCCCTCAGAAAAGCAAGGGTGTCTGCA
 TTTTCGGAACAGGGGATTTCCGGGAAGTCACTGGGATTGAAAATGCCTCAGTGTGGCTATTCTATCGTTTT
 TGGGAGTCGAAACCCAGGTGTCCAGCCTTCTGCCAGGGGGCAGAGGTCCTGAGCTATTTCGGAAGCA
 GCATCCAAGTCTGACATCATAATCCTAGCCATGCACAGAGCACTATGATTCCCTCACGGAAGTGTG
 ATTATCTCAAAGAAAAGTATTGGTAGACGTCAGTAACAACCGCAAAATCAATCAGTATCCAGAGTCAAA
 TGCGGAATACCTTGCTCAGCTGGAGCCAGGAGCCACGTGGTCAAAGCATTTAACACCATCTCAGCCTGG
 GCTCTCCAGTCAGGAACACTAGATGCAAGCCGGCAGGTGTTTGTCTGTGGAAATGACAGCAAGGCCAAAC
 AAAGAGTAATGGACATTGCTCGTACTCTGGGCTCACCCACTGGACCAAGGATCTCTCATGGCAGCCAG
 TGAATTGAAAACACCCTCTGCAACTATTTCCAATGTGGAGTTTCTTTCTATTTGCTCTGTGCTG
 TCGCTCTTCTTTGTGTACTGTGCAATACGAGAGGTGATATACCCCTACGTGAATGGGAAAACAGATG
 CTACGTACCGCCTGGCCATTTCCATCCCGAATCGTGTCTTTCCTATAACAGCACTGATCCTGCTTGCCCT
 GGTGTACCTCCCTGGTATTCTCGCTGCCATTCTGCAGCTCTATCGAGGCACAAAGTACCGCCGATTCCCA
 AACTGGCTTGACCATTGGATGCTTTCAGAAAAGCAACTGGGCTTGGTAGCTCTGGGATTTGCCTTCTTC
 ATGTCACTACACACTTGTGATTCTATCCGTTACTATGTTTCGATGGAGGCTGAGAAATGCAACCATTAC
 TCAGGCCCTAACTAATAAAGACAGCCATTTATTACCTCTATGCCTGGATTAATGATTCCTACTTGGCG
 CTGGAATCCTGGGATTTTTCTGTTCTTCTGTTGGGAATCACTTCTTGCATCAGTAAGCAACATGG
 TCAACTGGAGAGAGTCCGGTTTGTTCAGTCCAAACTGGGTTATCTGACCCTGGTCTTGGCAGCCCA
 CACTTTGGTGTATGGCGAAAGAGATTCCTCAGCCCTTCGATTCTAAGGTGGAGCCTCCCTTCGGCTTAT
 ATTTTGGCACTCGTCATCCCTGCGCAGTGTGGTGTGAAGTGCATCCTCATGATGCCATGCATAGACA
 AGACCCTCACTCGCATCCGCCAGGGCTGGGAAAGAACTCAAAGTACACACAATCAGCACTGAACGGAAA
 ATCGGATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207521 protein sequence
 Red=Cloning site Green=Tags(s)

MEKAHADEFPLTDSSEKQGVVCFGTGDFGKSLGLKMLQCGYSIVFGSRNPQVSSLLPRGAEVLSYSEA
 ASKSDIIILAMHREHYDSLTELVDYLKGVKLVDSVNNRKINQYPE SNAEYLAQLEPGAHVVKAFNTISAW
 ALQSGTLDASRQVFVCGNDSKAKQRVMDIARTLGLTPLDQGSMAASEIENYPLQLFPMWRFPFYLSVVL
 CVFFFVYCAIREVIYPYVNGKTDATYRLAISIPNRVFPITALILLALVYLPGILAAILQLYRGTKYRRFP
 NWLDHWMLCRKQLGLVALGFAFLHVIYTLVIPIRYVWRWLRNATITQALTNKDSPFITSYAWINDSYLA
 LGILGFFLFLLLGITSLPSVSNMNVNREFRFVQSKLGYLTLVLCTAHTLVYGGKRFLSPSILRWLSPSAY
 ILLALVIPCAVLVLCILIMPCIDKTLTRIRQGWERNISKYTSALNGKSDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_054098

ORF Size: 1413 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_054098.2](#)

RefSeq Size: 3140 bp

RefSeq ORF: 1413 bp

Locus ID: 117167

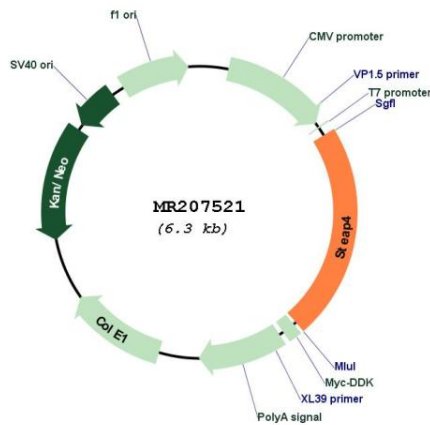
UniProt ID: [Q923B6](#)

Cytogenetics: 5 A1

MW: 53 kDa

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 (PubMed:16609065). Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (By similarity). Can also reduce Cu(2+) to Cu(1+) (PubMed:16609065). Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (PubMed:17482547). Associated with obesity and insulin-resistance (By similarity). Involved in inflammatory arthritis, through the regulation of inflammatory cytokines (PubMed:19660107). Inhibits anchorage-independent cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207521