

Product datasheet for **MR230180**

Steap2 (NM_001285469) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap2 (NM_001285469) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Steap2
Synonyms:	4921538B17Rik; AI930049; AW045895; IPCA-1; IPCA1; PCANAP1; STAMP1; STMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230180 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATCCATCTCTATGATGGGAAGCCCTAAGAGCCTGGAGACGTTTTTGCCTAATGGCATAAATGGTA
 TCAAAGACGCAAGGCAGGTCACCGTGGGGGTGATAGGAAGTGGGGATTTTGCCAAGTCTCTGACCATTCC
 GCTTATTAGATGTGGCTACCACGTGGTCATAGGAAGCAGAAATCCCAAGTTTGCATCAGAATTTTTCT
 CACGTGGTAGACGTCACCCACCATGAAGATGCTTTAACAAAAACAATAAATATTCTGGCTATCCATA
 GAGAACATTACACCTCCTTGTGGGACCTGAGACATCTGCTTGTGGGCAAATCCTCATTGATGTGAGCAA
 CAACATGAGAGTAAACCAGTACCAGAATCCAATGCAGAGTACCTGGCTTCATTATCCCGGACTCCTTG
 ATTGTCAAAGGATTTAATGTGATCTCAGCTTGGGCACTCAGCTAGGTCCCAAGGATGCCAGCCGCCAGG
 TTTATATATGCAGCAACAATATCCAAGCTCGACAGCAGGTTATCGAGCTCGCCGCCAGCTGAATTTTAT
 TCCTGTTGACTGGGATCTTTGTCGTCAGCCAAGGAGATTGAAAACCTTACCTCTGCGACTGTTTACTCTC
 TGGAGGGGGCCAGTGGTAGTAGCCATAAGCTTGGCCACATTTTTCTTTCTTTATTCTTTGTCAGAGATG
 TGATACATCCATATGCCAGAAACCAGCAGAGTGACTTTTACAAGATCCCATGAGATTGTGAACAAAAC
 CTTGCCGATCGTCGCCATCACCTGCTGTCTCTGGTGTACCTGGCTGGCCTCCTGGCAGCTGCGTATCAG
 CTTTATTATGGCACTAAGTACCGCCGATTTCCCGTGGCTGGATACTTGGTGCAGTGCAGGAAACAGC
 TGGGATTGCTGAGCTTCTTTTGCAGTTGTTACGTAGCCTACAGCCTCTGCTTACCAATGAGGAGGTC
 GGAAAGATACCTGTTCTCAACATGGCTTATCAGCAGGTTTATGCAATATTGAGAACCGGTGGAACGAG
 GAGGAGGCTGGAGGATTGAGATGTACATTTCTTTGGCATCATGAGCCTGGGCTTGTGTCCTGCTGG
 CGTCACTTCCATCCCATCAGTGAGCAACGCTTTGAACGGAGAGATTGAGTTTCCAGTTCACGCTACGCT
 TGGCTACGTCCCGCTGCTCATCACGACCTCCACGTGTTAATTTACGGATGGAAGCGTGGGTTTGCAGAA
 GAGTACTACCGCTTTTACACACCACAACTTCGTTCTTGGCCTCGTTTTGCCCTCCATTGTAATTCTGG
 GTAAGATGATATTACTCTCCCATGCATAAGCCGAAAGCTAAAACGAATAAAAAGGGCTGGGAAAAGAG
 CCAGTTTCTAGACGAAGGCATGGGAGGAGCGGTTCTCATCTGTCCCGAGAGGGTGCAGTGATG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230180 protein sequence
 Red=Cloning site Green=Tags(s)

MESISMMGSPKSLETFLPNGINGIKDARQVTVGVIGSGDFAKSLTIRLIRCGYHVIVIGSRNPKFASEFFP
 HVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLLVGKILIDVSNMVRVNPESNAEYLASLFPDSL
 IVKGFNVISAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIQVLDLGSLSAKEIENLPLRFTL
 WRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPKIEIVNKTLPVAVITLLSLVYLAGLLAAAYQ
 LYYGTYRFRFPWLDTWLQCRKQLGLLSFFFAVHVAYSCLPMMRSERYLFLNMAQQVHANIANAWNE
 EEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWRFSFIQSTLGYVALLITTFHVLIIYGWKRAFAE
 EYRYFYTPPNFVLAALVLPDIVILGKMILLPCISRKLKRIKKGWEKSQFLDEGMGGAVPHLSPERVTVM

SGPTRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001285469

ORF Size: 1467 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_001285469.1](#), [NP_001272398.1](#)

RefSeq Size: 10250 bp

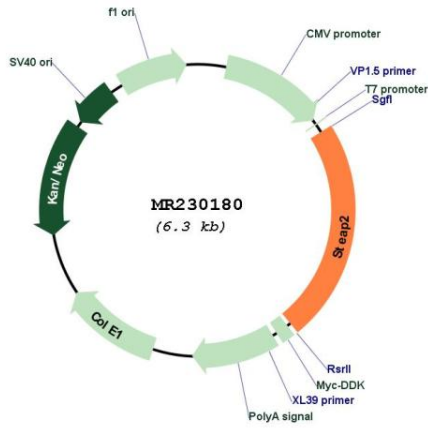
RefSeq ORF: 1470 bp

Locus ID: 74051

UniProt ID: [Q8BWB6](#)

Cytogenetics: 5 A1
MW: 55.8 kDa
Gene Summary: Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230180