

## Product datasheet for **MR218200**

### Steap2 (NM\_001103156) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Steap2 (NM_001103156) 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:**

>MR218200 representing NM\_001103156  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAATCCATCTCTATGATGGGAAGCCCTAAGAGCCTGGAGACGTTTTTGCCTAATGGCATAAATGGTA  
 TCAAAGACGCAAGGCAGGTCACCGTGGGGTGATAGGAAGTGGGATTTTGCCAAGTCTCTGACCATTCCG  
 GCTTATTAGATGTGGCTACCACGTGGTCATAGGAAGCAGAAATCCCAAGTTTGCATCAGAATTTTTCTCT  
 CACGTGGTAGACGTCACCCACCATGAAGATGCTTTAACAAAAACAAATATAATATTCGTGGCTATCCATA  
 GAGAACATTACACCTCCTGTGGGACCTGAGACATCTGCTTGTGGGCAAAATCCTCATTGATGTGAGCAA  
 CAACATGAGAGTAAACCAGTACCAGAATCCAATGCAGAGTACCTGGCTTCAATTATCCCGGACTCCTTG  
 ATTGTCAAAGGATTTAATGTGATCTCAGCTTGGGCACTCAGTAGGTCCAAGGATGCCAGCCGCCAGG  
 TTTATATATGCAGCAACAATATCCAAGCTCGACAGCAGGTTATCGAGCTCGCCCGCCAGCTGAATTTTAT  
 TCCTGTTGACTTGGGATCTTTGCGTCAGCCAAGGAGATTGAAAACCTTACCTCTGCGACTGTTTACTCTC  
 TGGAGGGGGCCAGTGGTAGTAGCCATAAGCTTGGCCACATTTTTCTTTCTTTATTCTTTGTGAGAGATG  
 TGATACATCCATATGCCAGAAACCAGCAGAGTGACTTTTACAAGATCCCATGAGATTGTGAACAAAAC  
 CTTGCCGATCGTCGCCATCACCTGCTGTCTCTGGTGTACCTGGCTGGCCTCCTGGCAGCTGCGTATCAG  
 CTTTATTATGGCACTAAGTACCGCCGATTTCCCGCTGGCTGGATACTTGGCTGCAGTGCAGGAAACAGC  
 TGGGATTGCTGAGCTTCTTCTTTCAGTTGTTACGTAGCCTACAGCCTCTGCTTACCAATGAGGAGGTC  
 GGAAAGATACTGTTCTCAACATGGCTTATCAGCAGGTTATGCCAATATTGAGAACCGGTGGAACGAG  
 GAGGAGGCTGGAGGATTGAGATGTACATTTCTTTGGCATCATGAGCCTGGGCTTGTGTCCCTGCTGG  
 CGGTCACCTCCATCCCATCAGTGAGCAACGCTTGAAGTGGAGAGAGTTTCAAGTTTCAAGTCTACGCT  
 TGGCTACGTCGCCCTGCTCATCACGACCTCCAGTGTTAATTTACGGATGGAAGCGTGGCTTTCAGAA  
 GAGTACTACCGCTTTTACACACCACAAACTTCGTTCTTGCCCTCGTTTTGCCCTCCATTGTAATTCG  
 GTAAGATGATATTACTCTCCCATGCATAAGCCGAAAGCTAAAACGAATTAAGAGGGCTGGGAAAAGAG  
 CCAGTTTCTAGACGAAGGCATGGGAGGAGCGGTTCTCATCTGTCCCGAGAGAGGTCACAGTGATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218200 representing NM\_001103156  
 Red=Cloning site Green=Tags(s)

MESISMMGSPKSLETFLPNGINGIKDARQVTGVIGSGDFAKSLTIRLIRCGYHVIVIGSRNPKFASEFFP  
 HVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLVVGKILIDVSNMVRVQYPESNAEYLASLFPDSL  
 IVKGFNVISAWALQLGPKDASRQVYICSNNIQARQVIELARQLNFIQVLDGSLSSAKEIENLPLRFTL  
 WRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPIEIVNKTLPVAVITLLSLVYLAGLLAAAYQ  
 LYYGTYRRFPPLDWTWQCRKQLGLLSFFFVAVHVAYSCLPMRRSERYLFLNMAYQQVHANIENAWNE  
 EEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWREFSFIQSTLGYVALLITTFHVLIIYGWKRAFAE  
 EYRYFYTPPNFVLAFLVPSIVILGKMILLPCISRKLKRIKKGWEKSQFLDEGMGGAVPHLSPERVTVM

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_f09.zip](https://cdn.origene.com/chromatograms/mm9016_f09.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001103156

**ORF Size:** 1467 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

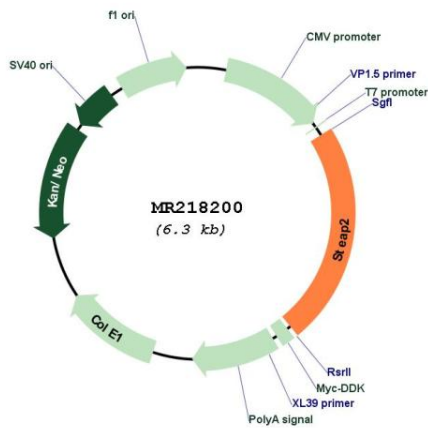
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001103156.2](#), [NP\\_001096626.1](#)  
 RefSeq Size: 10341 bp  
 RefSeq ORF: 1470 bp  
 Locus ID: 74051  
 UniProt ID: [Q8BWB6](#)  
 Cytogenetics: 5 A1  
 MW: 56.2 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 MR218200