

## Product datasheet for **MR216734**

### Steap2 (NM\_001103157) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Steap2 (NM_001103157) 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:**

>MR216734 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAATCCATCTCTATGATGGGAAGCCCTAAGAGCCTGGAGACGTTTTTGCCTAATGGCATAAATGGTA  
 TCAAAGACGCAAGGCAGGTCACCGTGGGGGTGATAGGAAGTGGGGATTTTGCCAAGTCTCTGACCATTCC  
 GCTTATTAGATGTGGCTACCACGTGGTCATAGGAAGCAGAAATCCCAAGTTTGCATCAGAATTTTTCT  
 CACGTGGTAGACGTCACCCACCATGAAGATGCTTTAACAAAAACAATAAATATTCTGGCTATCCATA  
 GAGAACATTACACCTCCTTGTGGGACCTGAGACATCTGCTTGTGGGCAAATCCTCATTGATGTGAGCAA  
 CAACATGAGAGTAAACCAGTACCAGAATCCAATGCAGAGTACCTGGCTTCATTATCCCGGACTCCTTG  
 ATTGTCAAAGGATTTAATGTGATCTCAGCTTGGGCACTCAGCTAGGTCCAAGGATGCCAGCCGCCAGG  
 TTTATATATGCAGCAACAATATCCAAGCTCGACAGCAGGTTATCGAGCTCGCCGCCAGCTGAATTTTAT  
 TCCTGTTGACTGGGATCTTTGTCGTCAGCCAAGGAGATTGAAAACCTTACCTCTGCGACTGTTTACTCTC  
 TGGAGGGGGCCAGTGGTAGTAGCCATAAGCTTGGCCACATTTTTCTTTCTTTATTCTTTGTCAGAGATG  
 TGATACATCCATATGCCAGAAACCAGCAGAGTGACTTTTACAAGATCCCATGAGATTGTAACAAAAC  
 CTTGCCGATCGTCGCCATCACCTGCTGTCTCTGGTGTACCTGGCTGGCCTCCTGGCAGCTGCGTATCAG  
 CTTTATTATGGCACTAAGTACCGCCGATTTCCCGTGGCTGGATACTTGGTGCAGTGCAGGAAACAGC  
 TGGGATTGCTGAGCTTCTTTTGCAGTTGTTACAGTACGCTACAGCCTCTGCTTACCAATGAGGAGGTC  
 GGAAAGATACCTGTTCTCAACATGGCTTATCAGCAGGTTTCATGCCAATATTGAGAACCGGTGGAACGAG  
 GAGGAGGTCGGAGGATTGAGATGTACATTTCCCTTGGCATCATGAGCCTGGGCTTGTGTCCCTGCTGG  
 CGTCACTTCCATCCCATCAGTGAGCAACGCTTTGAACGGAGAGATTTCAGTTTCCAGTCCAGTCTACGCT  
 TGGCTACGTCCGCTGCTCATCACGACCTCCACGTGTTAATTTACGGATGGAAGCGTGGGTTTGCAGAA  
 GAGTACTACCGCTTTTACACACCACAACTTCGTTCTTGCCTCGTTTTGCCCTCCATTGTAATTCTGG  
 GTAAGATGATATTACTCTCCCATGCATAAGCCGAAAGCTAAAACGAATAAAAAGGGCTGGGAAAAGAG  
 CCAGTTTCTAGACGAAGGCATGGGAGGAGCGGTTCTCATCTGTCCCGAGAGGGTCCACAGTGATG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216734 protein sequence  
 Red=Cloning site Green=Tags(s)

MESISMMGSPKSLETFLPNGINGIKDARQVTVGVIGSGDFAKSLTIRLIRCGYHVIVIGSRNPKFASEFFP  
 HVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLVKGKILIDVSNMVRVNPESNAEYLASLFPDSL  
 IVKGFNVISAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIQVLDLGSLSAKEIENLPLRFTL  
 WRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPKIEIVNKTLPVIAITLLSLVYLAGLLAAAYQ  
 LYYGTYRRFPPLDWTWQCRKQLGLLSFFFAVHVAYSCLPMRRSERYLFLNMAQQVHANIANAWNE  
 EEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWRFSFIQSTLGYVALLITTFHVLIIYGWKRAFAE  
 EYRYFYTPPNFVLAIVLPSIVILGKMILLPCISRKLKRIKKGWEKSQFLDEGMGGAVPHLSPERVTVM

**SGP**TRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001103157

**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\\_001103157.2](#), [NP\\_001096627.1](#)

**RefSeq Size:** 10696 bp

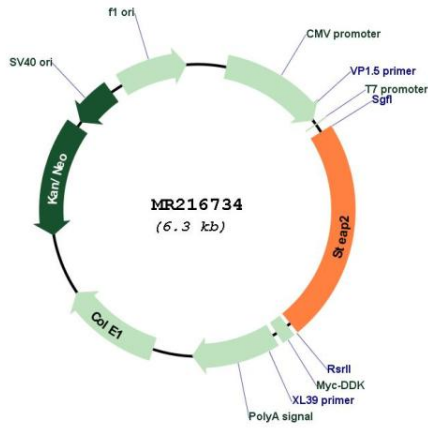
**RefSeq ORF:** 1470 bp

**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 MR216734