

Product datasheet for **MR216709**

Steap2 (NM_028734) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steap2 (NM_028734) 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:

>MR216709 representing NM_028734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATCCATCTCTATGATGGGAAGCCCTAAGAGCCTGGAGACGTTTTTGCCTAATGGCATAAATGGTA
 TCAAAGACGCAAGGCAGGTCACCGTGGGGGTGATAGGAAGTGGGGATTTTGCCAAGTCTCTGACCATTCC
 GCTTATTAGATGTGGCTACCACGTGGTCATAGGAAGCAGAAATCCCAAGTTTGCATCAGAATTTTTCT
 CACGTGGTAGACGTCACCCACCATGAAGATGCTTTAACAAAAACAATAAATATTCTGGCTATCCATA
 GAGAACATTACACCTCCTTGTGGGACCTGAGACATCTGCTTGTGGGCAAATCCTCATTGATGTGAGCAA
 CAACATGAGAGTAAACCAGTACCAGAATCCAATGCAGAGTACCTGGCTTCATTATCCCGACTCCTTG
 ATTGTCAAAGGATTTAATGTGATCTCAGCTTGGGCACTCAGTAGGTCCCAAGGATGCCAGCCGCCAGG
 TTTATATATGCAGCAACAATATCCAAGCTCGACAGCAGGTTATCGAGCTCGCCGCCAGCTGAATTTTAT
 TCCTGTTGACTGGGATCTTTGTCGTCAGCCAAGGAGATTGAAAACCTTACCTCTGCGACTGTTTACTCTC
 TGGAGGGGGCCAGTGGTAGTAGCCATAAGCTTGGCCACATTTTTCTTTCTTTATTCTTTGTGAGAGATG
 TGATACATCCATATGCCAGAAACCAGCAGAGTGACTTTTACAAGATCCCATGAGATTGTGAACAAAAC
 CTTGCCGATCGTCGCCATCACCTGCTGTCTCTGGTGTACCTGGCTGGCCTCCTGGCAGCTGCGTATCAG
 CTTTATTATGGCACTAAGTACCGCCGATTTCCCGTGGCTGGATACTTGGTGCAGTGCAGGAAACAGC
 TGGGATTGCTGAGCTTCTTTTGCAGTTGTTACAGTACGCTACAGCCTCTGCTTACCAATGAGGAGGTC
 GGAAAGATACCTGTTCTCAACATGGCTTATCAGCAGGTTTCATGCAATATTGAGAACCGGTGGAACGAG
 GAGGAGGTCGGAGGATTGAGATGTACATTTCCCTTGGCATCATGAGCCTGGGCTTGTGTCCTGCTGG
 CGTCACTTCCATCCCATCAGTGAACAACGCTTTGAACGGAGAGATTTCAGTTTCCAGTCCAGTCACTG
 TGGCTACGTCGCCCTGCTCATCACGACCTTCCAGTGTTAATTTACGGATGGAAGCGTGGGTTTGCAGAA
 GAGTACTACCGCTTTTACACACCACAACTTCGTTCTTGGCCTCGTTTTGCCCTCCATTGTAATTCTGG
 GTAAGATGATATTACTCTCCCATGCATAAGCCGAAAGCTAAAACGAATTAAGGAGGCTGGGAAAAGAG
 CCAGTTTCTAGACGAAGGCATGGGAGGAGCGGTTCTCATCTGTCCCGAGAGGGTCCACAGTGATG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

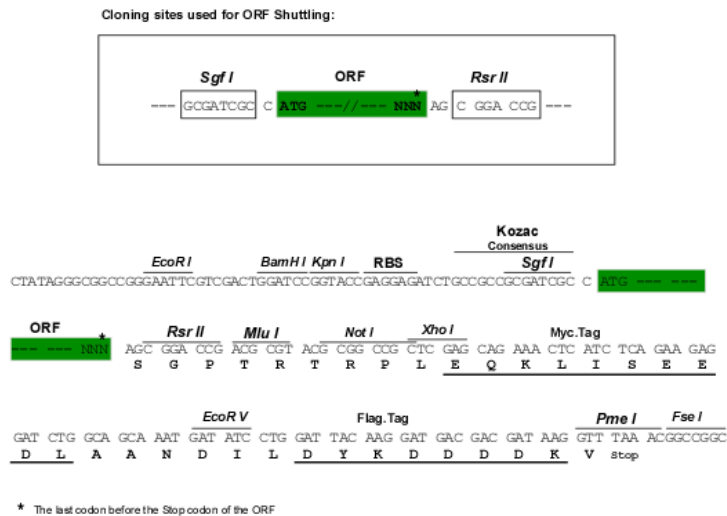
>MR216709 representing NM_028734
 Red=Cloning site Green=Tags(s)

MESISMMGSPKSLETFLPNGINGIKDARQVTVGVIGSGDFAKSLTIRLIRCGYHVIVIGSRNPKFASEFFP
 HVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLVKGKILIDVSNMVRVNPESNAEYLASLFPDSL
 IVKGFNVISAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIQVLDLGSLSAKEIENLPLRFTL
 WRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPKIEIVNKTLPVAVITLLSLVYLAGLLAAAYQ
 LYYGTYRRFPPLDWTWQCRKQLGLLSFFFAVHVAYSCLPMRRSERYLFLNMAVQQVHANIANAWNE
 EEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWRFSFIQSTLGYVALLITTFHVLIIYGWKRAFAE
 EYRYFYTPPNFVLAIVLPSIVILGKMILLPCISRKLKRIKKGWEKSQFLDEGMGGAVPHLSPERVTV

SGPTRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_028734

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_028734.5](#), [NP_083010.2](#)

RefSeq Size: 10398 bp

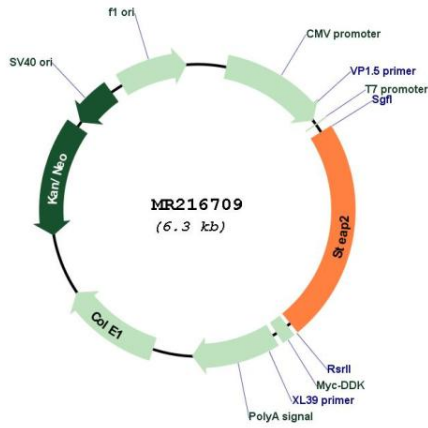
RefSeq ORF: 1470 bp

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 MR216709