

Product datasheet for **RR213088**

Suox (NM_031127) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suox (NM_031127) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suox
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213088 representing NM_031127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCTCGGCTATACAGATCTGTGGCTGTGGGCTTCGCGGGCCATCAGAGCCAAGTCAACCCCTT
 TGAGACTCTGCATTCAAGCATGTTCTCAAGTGAAGTCACTTAAGCCGAGCATCCCAGCCTCACCTTTTC
 TGATGATAACTCAAGGACTCGGGGATGAAAGTATGGGACCCCTGATAGGCCTTGGTGCCTGTGGCC
 TATCATGACCATCGGTGTAGGGCTTCTCAGGAGTACCACGGATATACTCTAAAGAGGATGTGCGTTCTC
 ACAACAACCTTCAAAGTCTGGGTAAGTCTAGGCTCTGAGGCTTTTATGTCACAAAATTTGTGGA
 CCTGCATCCAGGAGGACAATCAAAGTCTGAGTCTAGCTGCTGGAGTCCCCTAGAACCCTTCTGGGCCCTC
 TATGCTGTTCAACAACAGCCCCATGTACGTGAGTACTGGCTGAGTATAAGATTGGGAGCTGAACCCCG
 AAGATAGAATGTCCCCTCCCTTGGAGGCCCTGACCCCTATTCCAATGACCCATGCGTCATCCAGCCCT
 GAGGATTAATAGCCAGCGCCCTTAAATGCAGAGCCTCCTCTGAAGTCTTACAGAAAGCTACATCACA
 CCAAACCTATTTTCTTTACCCGGAACCATCTGCCTGTACCTAACCTGGACCCAGACACCTATCGCTTGC
 ATGTAGTAGGGGACCTGGAGGTCAGTCGCTCTCTCTCCTTGGATGATTTGCATAAGTCCCAAACA
 TGAGGTCACTGTCACTCTGCAGTGTGCTGGTAACCGGCGCTCGGAGATGAATAAGGTCAAGGAAGTGAAA
 GGTCTGGAGTGGAGAACAGGGGCCATCAGCACGGCAGCTGGGCCGGGACGGCTCTGTGATGTCTTAG
 CCCAGGCTGGTCAACGACTCCGTGAAACCGAGGCCATGTCTGTTTTGAAGGACTGGATTAGACCCAC
 TGGAACTGCCTATGGGGCATCCATCCCTCTGGCTCGGGCCATGGATCCCCAAGCCGAGGCTCCTCTGGCT
 TATGAGATGAATGGTCAAGTCTGCCTCGTGGCAGAGTGAAGTGTGGAGTCAAGGAAAGTTATAGTCACTGGCA
 GAGGCGGATTACAAAGGCTTTTCTCCATCTGTGGACTGGGACACTGTAGACTTTGATCTAGCCCCATCA
 ATTCAGGAACTACCCATCCAGTCACTATCACACAGCCTCAAGATGGGACGACTGTAGAATCAGGAGAGG
 TGATTATCAAGGCTATGCATGGAGTGGTGGTGGTAGGGCTGTGATTCGAGTGGATGTGTCTATGGATGG
 TGGACTGACCTGGCAGGAAGCTGAGCTGGAGGGAGAGGAACAGCATCCCAGGAAGGCTGGGCTTGGCGA
 ATATGGCAGTTGAAAGCTCACGTGCCAGCTGAGCAGAAGGAATTGAACATCATTGTAAAGCGGTAGATG
 ACAGTTACAACGTGCAGCCAGACTGTGGCCCAATCTGGAACCTTCGAGGCGTCTCAGCAATGCCTG
 GCACCGTGTCCACGTTCAAGTGGTTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213088 representing NM_031127
 Red=Cloning site Green=Tags(s)

MLPRLYRSVAVGLPRAIRAKSTPLRLCIQACSSDSLKPQHPSLTFSDDNSRTRGWKVMGTLIGLGAVLA
 YDHRCRASQESPRIYSKEDVRSHNNLQTVVWTLGSEVFDVTKFVDLHPGGQSKLMLAAGGPPEPFWAL
 YAVHNQPHVRELLAEYKIGELNPEDRMSPPLEASDPYSNDPMRHPALRINSQRPFNAEPPPELLTESYIT
 PNPFIFFTRNHLVVPNLDPDYRHLVVGAPGGQSLSLSLDDLHKFPKHEVTVTLCAGNRRSEMNVKEVK
 GLEWRTGAISTARWAGARLCDVLAQAGHRLRETEAHVCFEGLDSDPTGTAYGASIPLARAMDPQAEVLLA
 YEMNGQPLPRDHGFPVRVVVPGVVGARHVKWLGRVSVSEESYSHWQRDYKGFSPSVDWDTVDFDLAPS
 IQELPIQSAITQPQDGTTVESGEVVIKGYAWSGGRAVIRVDVSMGGLTWQEALEEGEEQHPRKAWAWR
 IWQLKAHVPAEQKELNIIICKAVDDSYNVQPDVTVAPIWNLRGVLSNAWHRVHVQVVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

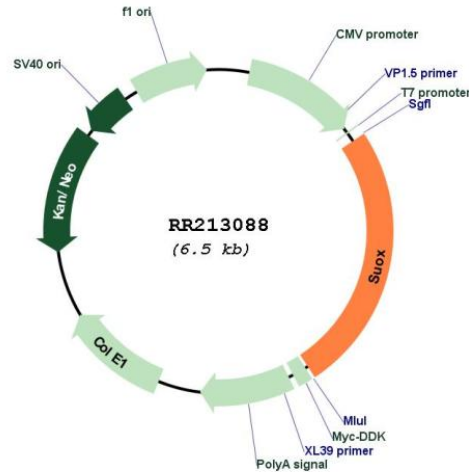
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031127

ORF Size: 1638 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_031127.3](#), [NP_112389.3](#)

RefSeq Size: 2184 bp

RefSeq ORF: 1641 bp

Locus ID: 81805

UniProt ID: [Q07116](#)

Cytogenetics: 7q11

MW: 60.8 kDa

Gene Summary: catalyzes the oxidation of sulfite to sulfate; activity requires a molybdenum cofactor [RGD, Feb 2006]