

Product datasheet for **RR200254**

Qsox1 (NM_053431) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qsox1 (NM_053431) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qsox1
Synonyms:	Qscn6; Qsox; rSOx; Sox-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200254 representing NM_053431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAGGTGCGGCCGCACTCGGGCGCCGTCGCTGCTGCTACTTCTGCTGCTCCCGCCGCTGC
 TGCTCTCGGTGCCCGGCGCTTACGCGGCCGCGCTCTCGGTGCTCTACTCGTCCTCTGATCCACTGACGCT
 GCTGGATGCGGACACCGTGCGCCCGCTGTGCTGGGATCCAGTAGCGCCTGGGCGGTGGAGTTCTTCGCC
 TCCTGGTGTGGCATTGCATCGCCTTCGCTCCGACGTGGAAGGAGCTTGTAACGACGTGAAAGACTGGA
 GGCCAGCACTAAATCTTGCTGTCTGGACTGTGCTGATGAGACCAATAGTGCTGTCTGCAGAGAGTTCAA
 CATCGCCGGCTTCCCACTGTGAGGTTTTTAAGGCCTTTTCAAGAACGGTACTGGAACAGCATTGCCA
 GCCGCTGGTGCTAATGTGCAGACGCTGCGTATGAGGCTCATCGATGCTCTGGAGTCCCACCGTGACACGT
 GGCCCCCAGCATGTCCACCCCTGGAGCCTGCCAAGCTGAAGGATATCAATGAATTCCTTACAAGAAGTAA
 AGCAGAGTACCTGGCCCTGATCTTTGAAAGGGAAGACTCCTATCTGGGTAGAGAGGTAACCTGGACCTG
 TCCAGATTCCATGCTGTGGCAGTGCGCAGGGTCTTGAATTCAGAGAGCGACGTGGTGAGCAAGTTTGCTG
 TCACTGACTTTCCATCTTGCTACCTGCTGCTTCGGAATGGTTCTGTTTCCCGAGTGCCTGTGCTGGTAGA
 GTCCAGGCCTTTCTATACATCCTACCTGCGGGGCTCCCTGGACTGACCAGGGAGGCTCCCCAACCACA
 GCTGCACCACTACTCCTGATAAGATAGCACCCACAGTGTGGAAGTTTGACAGACCGCTCCAAGATCTACA
 TGGCTGACCTGGAGTCTGCACTACACTACATCTTGCCTGTAGAAGTGGGAAAGTTCTCAGTTCTGGAGGG
 ACAGCGCTTGGTGGCCCTGAAAAAGTTTGTGGCAGTATTGGCCAAGTACTTCCCTGGCCAGCCTCTGGTC
 CAGAACTTCTTGCAATCCATAAACGATTGGCTTCAGAAGCAGCAGAAAAAGAAGATTCCCTATAGTTACT
 TCAAAGCCGCTCTGGACAGCAGGAAGGAGAACGCTGCTCTTGTGAGAAGGTGAAGTGGATTGGTTGCCA
 GGCAGGTGAGCCACATTTCCGGGGATTCCCTGCTCCCTGTGGGTCTCTTCCACTTCTGACTGTGCAG
 GCACACCGATACAGTGAGGCCCAACCAAGAACCAGCTGACGGCCAGGAGGTCTGCAAGCCATGCGAA
 GCTATGTGCAGTCCTTCTCGGCTGCCGAGACTGTGCCAACCATTTTGAGCAGATGGCTGCAGCATCCAT
 GCACCAAGTGAAGTCCAGTAATGCCGTTCTCTGGCTCTGGACGAGTCAACACAGGTCAACGCTCGC
 CTCTCGGGTCTCTGAGCGAGGACCCCAATCCCAAGGTGAGTGGCCACCCCGTGGAGTGTGTTCTG
 CCTGTCAATGAAGTCAACGACAAGTGCCTTTGTGGGACCTCGGTGCCACCTCAACTTTCTCAAGGC
 TCACTTCTCCCAGCAACATCGTCAGAGACCCTCTGCACCTGGACCAGCATCCCGAGGGGCACCCAG
 GATCCAGAAGCTTCCCCAACCTGCTTTTG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200254 representing NM_053431
 Red=Cloning site Green=Tags(s)

MRRCGRHSGPPSLLLLLLLLPPLLLSVPGAYAARLSVLYSSDPLTLLDADTVRPAVLGSSSAWAVEFFA
 SWCGHCIAFAPTWKELANDVKDWRPALNLAVLDCADETNSAVCREFNIAGFPTVRFFKAFSKNGTGTALP
 AAGANVQTLRMRLIDALESHRDTWPPACPPLEPAKLKDINEFFTRSKAEYLALIFEREDSYLGREVTLDL
 SQFHAVAVRRVLNSEDVVSKEFAVTDFFPSCYLLLRNGSVSRVPVLVESRPFYTSYLRGLPGLTREAPPTT
 AAPVTPDKIAPTVMKFAADRSKIYMALESALHYILRVEVGKFSVLEGQRLVALKKFVAVLAKYFPGQPLV
 QNFLHSINDWLKQKQKKIPYSYFKAALDSRKENAVLAEKVNWIGCQGSEPHFRGFPCSLWVLFHFLTQV
 AHRYSEAHQPQADGQEVLMQMSYVQSFFGCRDCANHFQMAAASMHQVKSPSNAVLWLWTSNHRVNAR
 LSGALSEDQPFQVQWPPRELCSACHNEVNGQVPLWDLGATLNLKAHFSANIVRDPPAPGPASRRGTQ
 DPEASPNLLL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_053431

ORF Size: 1710 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_053431.3](#), [NP_445883.1](#)

RefSeq Size: 2439 bp

RefSeq ORF: 1713 bp

Locus ID: 84491

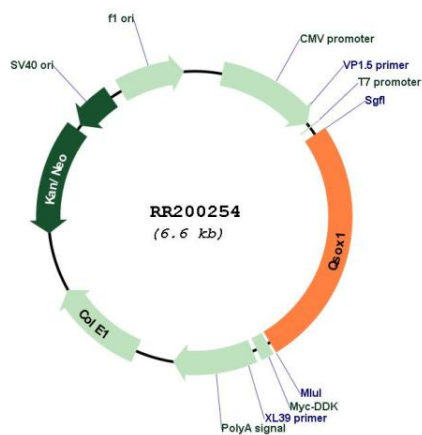
UniProt ID: [Q6IUU3](#)

Cytogenetics: 13q21

MW: 63.4 kDa

Gene Summary: FAD-dependent sulfhydryl oxidase [RGD, Feb 2006]

Product images:



Circular map for RR200254