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Product datasheet for RC202335

SQOR (NM_021199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SQOR (NM_021199) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SQOR
Synonyms:	CGI-44; PRO1975; SQR; SQRDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC202335 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCCACTGGTGGCTGTGGTATCAGGGCCCCGTGCCCAGCTCTTTGCCTGCCTGCTCAGGCTGGGCA
CTCAGCAGGTCGGCCCCCTTCAGCTGCACACCGGGGCCAGCCATGCGGCCAGGAACCATTATGAGGTGCT
GGTGCTGGGTGGGGGCAGTGGCGGAATCACCATGGCTGCCCGCATGAAGAGGAAAGTGGGTGCAGAGAAT
GTGGCCATTGTTGAGCCCAGTGAGAGACATTTCTACCAGCCAATCTGGACACTGGTGGGTGCTGGTGCCA
AACAATTGTCCTCATCTGGTCGTCCCACGGCAAGTGTGATTCCATCTGGTGTAGAATGGATCAAAGCTAG
AGTGACTGAGTTGAACCCAGACAAGAACTGCATTCACACAGATGACGACGAGAAGATCTCCTACCGATAT
CTTATTATTGCTCTCGGAATCCAGCTGGACTATGAGAAGATTAAAGGCCTACCTGAAGGTTTCGCTCATC
CCAAAATAGGGTCGAATTATTCAGTTAAGACTGTAGAGAAGACATGGAAAGCTCTGCAGGACTTCAAAGA
GGGCAATGCCATCTTCACCTTCCCAAATACTCCAGTGAAGTGTGCTGGAGCCCCTCAGAAGATCATGTAC
TTATCAGAAGCCTACTTCAGGAAGACAGGGAAGCGATCCAAGGCCAATATCATTTTCAACACTTCTCTTG
GAGCCATTTTCGGGGTTAAGAAGTATGCAGATGCCCTGCAGGAGATCATCCAGGAGCGGAACCTCACTGT
TAACTACAAGAAAAACCTCATTGAAGTCCGAGCCGATAAACAAGAGGCTGTATTTGAGAACCTGGACAAA
CCAGGAGAGACCCAAGTGATTTCATATGAAATGCTTCATGTCACACCTCCAATGAGCCCACCAGATGTCC
TCAAGACCAGTCCTGTGGCTGATGCTGCTGGTTGGGTGGATGTGGATAAAGAAACTCTGCAACACAGGAG
GTACCCAAATGTGTTTGGGATTGGGGACTGCACCAACCTTCCTACGTCAAAGACCGCTGCTGCAGTAGCT
GCCCAGTCAGGAATACTTGATAGGACAATTTCTGTAATTATGAAGAATCAAACACCAACAAAGAAGTATG
ATGGCTACACATCATGTCCACTGGTGACCGGCTACAACCGTGTGATTCTTGCTGAGTTTGACTACAAAGC
AGAGCCGCTAGAAACCTTCCCCTTTGATCAAAGCAAAGAGCGCCTTTCCATGTATCTCATGAAAGCTGAC
CTGATGCCTTTCCTGTATTGGAATATGATGCTAAGGGGTTACTGGGGAGGACCAGCGTTTCTGCGCAAGT
TGTTTCATCTAGGTATGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202335 protein sequence
Red=Cloning site Green=Tags(s)

MVPLVAVVSGPRAQLFACLLRLGTQQVGPLQLHTGASHAARNHYEVLVLGGGSGGITMAARMKRKVGAEN
VAIVEPSERHFYQPIWTLVGAGAKQLSSSGRPTASVIPSGVEWIKARVTELNPDKNCIHTDDDEKISYRY
LIIALGIQLDYEKIKGLPEGFAHPKIGSNYSVKTVEKTWKALQDFKEGNAIFTFPNTPVKCAGAPQKIMY
LSEAYFRKTGKRSKANIIFNTSLGAIFGVKKYADALQEIIQERNLTVNYKKNLIEVRADKQEAVFENLDK
PGETQVISYEMLHVTPPMSPPDVLKTSPVADAAGWVDVDKETLQHRRYPNVFGIGDCTNLPTSKTAAAVA
AQSGILDRTISVIMKNQTPTKKYDGYTSCPLVTGYNRVILAEFDYKAEPLETFPFDQSKERLSMYLMKAD
LMPFLYWNMMLRGYWGGPAFLRKLFHLGMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6539_h03.zip

Restriction Sites: SgfI-MluI

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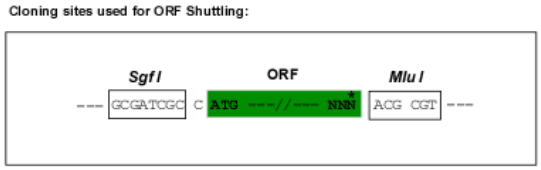
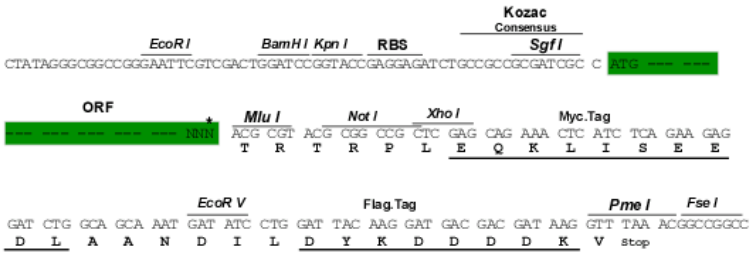
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_021199

ORF Size: 1350 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_021199.4

RefSeq Size: 2003 bp

RefSeq ORF: 1353 bp

Locus ID: 58472

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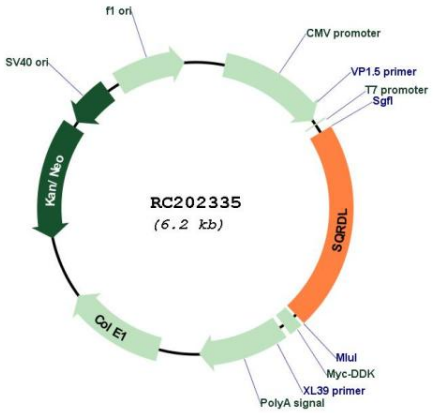
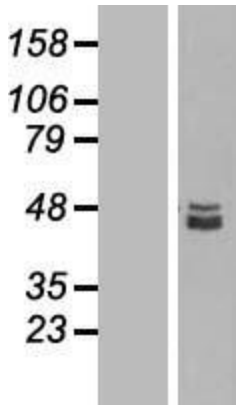
UniProt ID:	Q9Y6N5
Cytogenetics:	15q21.1
Protein Families:	Druggable Genome
MW:	50 kDa
Gene Summary:	The protein encoded by this gene may function in mitochondria to catalyze the conversion of sulfide to persulfides, thereby decreasing toxic concencrations of sulfide. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2012]

Product images:



Circular map for RC202335



Western blot validation of overexpression lysate (Cat# [LY412038]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202335 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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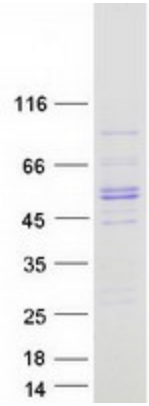

Coomassie blue staining of purified SQOR protein (Cat# [TP302335]). The protein was produced from HEK293T cells transfected with SQOR cDNA clone (Cat# RC202335) using MegaTran 2.0 (Cat# [TT210002]).

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