

Product datasheet for **RC216421**

QSOX2 (NM_181701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QSOX2 (NM_181701) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	QSOX2
Synonyms:	QSCN6L1; SOXN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216421 ORF sequence, **codon optimized**.
 Due to the complexity of NM_181701, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCAGCAGGTGCAGCCGTGGCTAGGTCTCCCGGCATAGGGGCTGGACCAGCACTGCGAGCAAGAC
 GGTCCCCTCCCCCTAGAGCTGCCAGGTTGCTAGACTCTTGGTGTGCTCGCAGCAGCAGTGGGTCC
 TGGAGCAGGGGGGCGAGCAAGATTGTACAGGGCCGAGAAGACGCCGTGGGTACTGGACAGCGGATCC
 GTTAGAGGGGCCACTGCCAATCCAGCGCCGCTTGGCTTGTGCAATTCTACAGCTCTGGTGGCCCACT
 GTATAGCCTACGCCCCACGTGGAGGGCCCTCGCTGGGGACGTAAGGGACTGGCGTCAGCCATTAGAGT
 GGCCGCCCTCGATTGCATGGAAGAGAAAAACCAAGCCGTCTGCCATGATTACGATATTCATTCTACCC
 ACCTTCCGGTATTTAAAGCATTACCAAAGAGTTCACAACAGGCGAAAACCTTAAAGGGCCAGACAGGG
 AGCTGCGCACCCTTCGGCAGACAATGATAGATTTCCTGCAGAACCATACCGAGGGATCCCAGCACCGGC
 ATGTCCCAGGCTGGACCCGATCAACCCAGCGATGTGCTGAGCCTGCTGGATAATCGCGGATCTCATTAC
 GTGGCCATAGTGTTCGAATCTAATAGTAGCTACCTTGGCAGAGAAGTATTCTCGACCTGATTCCTTACG
 AAAGCATCGTTGTGACACGCGCACTTGACGGCGATAAAGCCTTCTGGAAAAGCTCGGAGTTTCTCTGT
 GCCATCTTGCTACTTGATTTATCCTAATGGTCCCACGGGTGATCAACGTGGTAAAGCCCTGAGAGCA
 TTTTTTCTCTTATCTGAAGTCACTTCCCTGATGTCAGAAAAAAGTCCCTTCCATTGCCAGAGAAACCAC
 ATAAGGAGGAGAACAGTGAATTTGGTGTGGAGGGAATTCGATAAGTCAAAACTGTACACGGTGGATCT
 CGAGTCCGGCCTCCATTATCTGCTGCGCGTGGAGCTGGCAGCACATAAGAGTCTGGCGGGCAGAGTTG
 AAGACTCTCAAGGATTTCTGACGGTATTGGCCAAAGCTTCCCCGGCAGACCTCCTGTTAAAAAGCTGT
 TGGAGATGCTGCAGGAGTGGTTGGCATCTCTGCCCTGGACCGAATCCCCATAACGCCGTGCTGGACCT
 GGTTAACAAATAAGATGAGAATTTCTGGGATCTTCCCTACCAACCACATAAAGTGGTTCGGGTGCCAGGGC
 TCACGCTCAGAGCTGCGCGCTACCCATGTTCCCTGTGGAACTGTTTACACTTTGACTGTAGAGGCCCT
 CTACCCATCCAGACGATTGGTGGGACAGGCTTCGAGGACGACCCCGAGCAGTCTCCAGACTATGCG
 ACGGTATGTGCACACCTTCTTCGGGTGCAAAGAATGTGGCGAGCACTTTGAAGAGATGGCCAAAGAGTCA
 ATGGACAGCGTGAACACCAGATCAGGCCATTTTGTGGCTGTGGAAAAAGCATAATATGGTCAATGGAC
 GGCTGGCCGGACATCTGAGCGAAGATCCTCGGTTTCTAAACTGCAGTGGCCTACTCCGGACCTGTGTCC
 TGCTGCCATGAGGAGATAAAGGGGCTTGAAGCTGGGATGAAGGGCATGTTCTGACATTCTGAAACAA
 CACTACGGGAGAGATAATCTGCTCGATACTACTCCGACAGCAGGGCGACAGCAGCGAAGGGGAAACCC
 TGGCCCGAGGCGAAGAGGAAGAGAAACGGCTTACACCCCTGAAGTGTCCACGGTGACCGCGACACACA
 GAGTGTAAGACCACCTGGCGCTTTGGGCCCCGCCAGCTCTCCCTGAGAGCCTGCATCATAGTTTGGAC
 GGTAAGCTGCAGTCACTGGACGGACCGGGCGCACATAAAGAAGTGGGAGGAGCAGCGCCCTTCTCGGTG
 TAGATTTTTCTCTCGATATGAGCCTGTGCGTGGTTCTGTATGTAGCCTCCAGCCTGTTTCTCATGGT
 AATGTACTTTTTCTTCGAGTCAGATCACGCAGGTGGAAGTTAAGCATCACACCCCGCGGTG

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

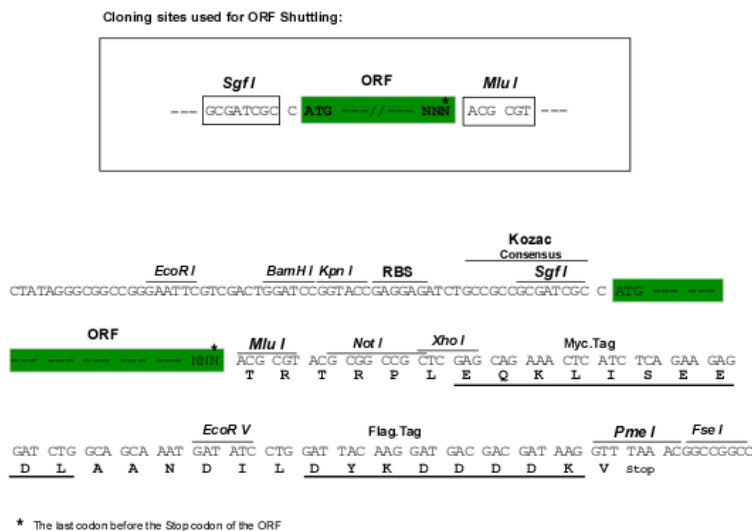
Protein Sequence: >RC216421 representing NM_181701
Red=Cloning site Green=Tags(s)

MAAAGAAVARSPGIGAGPALRARRSPPRAARLPRLLVLLAAAAVGPGAGGAARLYRAGEDAVVWVLDSSG
 VRGATANSSAAWL VQFYSSWCGHCIA YAPTWRALAGDVRD WASAIRVAALDCMEEKNQAVCHDYDIHFYP
 TFRYFKAF TKEFTT GENFKGPDRELRTVRQTMIDFLQNHTEGSRPPACPRLDPIQPSDVL SLLDNRGSHY
 VAIVFESNSSYL GREVILDLIPYESIVVTRALDGDKAFLEKLGVSSVPSCYLIYPNGSHGLINVVKPLRA
 FFSSYLKSLPDVRRKSLPLPEKPHKEENSEIVVWREFDKSKLYTVDLESGLHYLLRVELAAHKS LAGAE L
 KTLKDFVTVLAKLFPGRPPVKLLEMLQEWLASLPLDRIPYNAVLDLVNNKMRI SGI FLTNHIKWWVCQG
 SRSELRGYPCSLWKL FHTL TVEASTHPDALVGTGFEDDPQAVLQTMRRYVHTFFGCKEAGEHFEEMAKES
 MDSVKTPDQAILWLWKKHNMVNGRLAGHLS EDP RFPKLQWPTPDLCPACHEEIKGLASWDEGHVLTFLKQ
 HYGRDNL LDTYSADQGD SSEGGLARGE EEEKRLTPPEVSHGDRDTQSVRPPGALGRRPALPESLHHS LD
 GK LQSLDGP GAHKEVGAAPFLGVDFSSLDMSLCVVLVYVASSLFLMVMYFFFRVRSRRWKV KHHHPAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181701

ORF Size: 2094 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_181701.1](#), [NM_181701.2](#), [NM_181701.3](#), [NP_859052.2](#)

RefSeq Size: 4549 bp

RefSeq ORF: 2097 bp

Locus ID: 169714

UniProt ID: [Q6ZRP7](#)

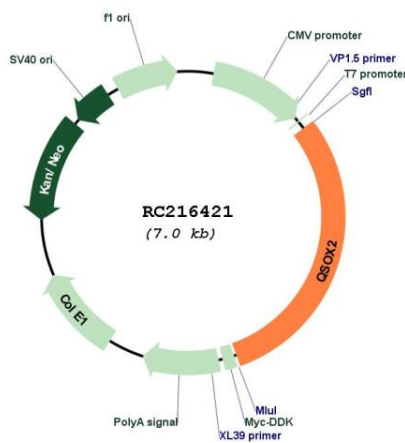
Cytogenetics: 9q34.3

Protein Families: Transmembrane

MW: 77.5 kDa

Gene Summary: QSOX2 is a member of the sulfhydryl oxidase/quiescin-6 (Q6) family (QSOX1; MIM 603120) that regulates the sensitization of neuroblastoma cells for IFN-gamma (IFNG; MIM 147570)-induced cell death (Wittke et al., 2003 [PubMed 14633699]).[supplied by OMIM, Jun 2009]

Product images:



Circular map for RC216421