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Product datasheet for RG216421

QSOX2 (NM_181701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QSOX2 (NM_181701) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	QSOX2
Synonyms:	QSCN6L1; SOXN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG216421 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCAGCAGGTGCAGCCGTGGCTAGGTCTCCCGGCATAGGGGCTGGACCAGCACTGCGAGCAAGAC
GGTCCCCTCCCCCTAGAGCTGCCAGGTTGCCTAGACTCTTGGTGCTGCTCGCAGCAGCAGCAGTGGGTCC
TGGAGCAGGGGGGGCAGCAAGATTGTACAGGGCCGGAGAAGACGCCGTGTGGGTACTGGACAGCGGATCC
GTTAGAGGGGCCACTGCCAATTCCAGCGCCGCTTGGCTTGTGCAATTCTACAGCTCCTGGTGCGGCCACT
GTATAGCCTACGCCCCCACGTGGAGGGCCCTCGCTGGGGACGTAAGGGACTGGGCGTCAGCCATTAGAGT
GGCCGCCCTCGATTGCATGGAAGAGAAAAACCAAGCCGTCTGCCATGATTACGATATTCACTTCTACCCT
ACCTTCCGGTATTTTAAAGCATTCACCAAAGAGTTCACAACAGGCGAAAACTTTAAGGGGCCAGACAGGG
AGCTGCGCACCGTTCGGCAGACAATGATAGATTTCCTGCAGAACCATACCGAGGGATCCCGACCACCGGC
ATGTCCCAGGCTGGACCCGATTCAACCCAGCGATGTGCTGAGCCTGCTGGATAATCGCGGATCTCATTAC
GTGGCCATAGTGTTCGAATCTAATAGTAGCTACCTTGGCAGAGAAGTGATTCTCGACCTGATTCCTTACG
AAAGCATCGTTGTGACACGCGCACTTGACGGCGATAAAGCCTTCCTGGAAAAGCTCGGAGTTTCCTCTGT
GCCATCTTGCTACTTGATTTATCCTAATGGGTCCCACGGGCTGATCAACGTGGTAAAGCCCCTGAGAGCA
TTTTTTTCCTCTTATCTGAAGTCACTTCCTGATGTCAGAAAAAAGTCCCTTCCATTGCCAGAGAAACCAC
ATAAGGAGGAGAACAGTGAAATTGTGGTGTGGAGGGAATTCGATAAGTCAAAACTGTACACGGTGGATCT
CGAGTCCGGCCTCCATTATCTGCTGCGCGTGGAGCTGGCAGCACATAAGAGTCTGGCGGGCGCAGAGTTG
AAGACTCTCAAGGATTTCGTGACGGTATTGGCCAAGCTCTTCCCCGGCAGACCTCCTGTTAAAAAGCTGT
TGGAGATGCTGCAGGAGTGGTTGGCATCTCTGCCCCTGGACCGAATCCCCTATAACGCCGTGCTGGACCT
GGTTAACAATAAGATGAGAATTTCTGGGATCTTCCTCACCAACCACATAAAGTGGGTCGGGTGCCAGGGC
TCACGCTCAGAGCTGCGCGGCTACCCATGTTCCCTGTGGAAACTGTTTCACACTTTGACTGTAGAGGCCT
CTACCCATCCAGACGCATTGGTGGGGACAGGCTTCGAGGACGACCCCCAGGCAGTCCTCCAGACTATGCG
ACGGTATGTGCACACCTTCTTCGGGTGCAAAGAATGTGGCGAGCACTTTGAAGAGATGGCCAAAGAGTCA
ATGGACAGCGTGAAAACACCAGATCAGGCCATTTTGTGGCTGTGGAAAAAGCATAATATGGTCAATGGAC
GGCTGGCCGGACATCTGAGCGAAGATCCTCGGTTTCCTAAACTGCAGTGGCCTACTCCGGACCTGTGTCC
TGCCTGCCATGAGGAGATAAAGGGGCTTGCAAGCTGGGATGAAGGGCATGTTCTGACATTCTTGAAACAA
CACTACGGGAGAGATAATCTGCTCGATACCTACTCCGCAGACCAGGGCGACAGCAGCGAAGGGGGAACCC
TGGCCCGAGGCGAAGAGGAAGAGAAACGGCTTACACCCCCTGAAGTGTCCCACGGTGACCGCGACACACA
GAGTGTAAGACCACCTGGCGCTTTGGGCCCCCGCCCAGCTCTCCCTGAGAGCCTGCATCATAGTTTGGAC
GGTAAGCTGCAGTCACTGGACGGACCGGGCGCACATAAAGAAGTGGGAGGAGCAGCGCCCTTTCTCGGTG
TAGATTTTTCCTCTCTGGATATGAGCCTGTGCGTGGTTCTGTATGTAGCCTCCAGCCTGTTTCTCATGGT
AATGTACTTTTTCTTTCGAGTCAGATCACGCAGGTGGAAGGTTAAGCATCACCACCCCGCGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

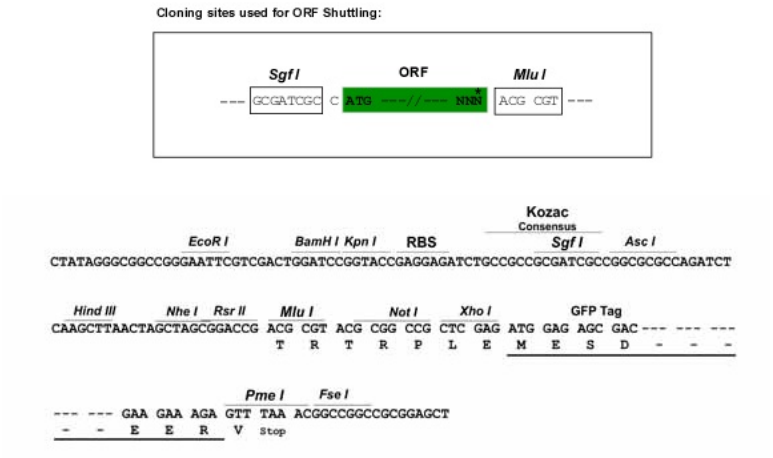
>RG216421 representing NM_181701
Red=Cloning site Green=Tags(s)

MAAAGAAVARSPGIGAGPALRARRSPPPRAARLPRLLVLLAAAAVGPGAGGAARLYRAGEDAVWVLDSGS
VRGATANSSAAWLVQFYSSWCGHCIAYAPTWRALAGDVRDWASAIRVAALDCMEEKNQAVCHDYDIHFYP
TFRYFKAFTKEFTTGENFKGPDRELRTVRQTMIDFLQNHTEGSRPPACPRLDPIQPSDVLSLLDNRGSHY
VAIVFESNSSYLGREVILDLIPYESIVVTRALDGDKAFLEKLGVSSVPSCYLIYPNGSHGLINVVKPLRA
FFSSYLKSLPDVRKKSLPLPEKPHKEENSEIVVWREFDKSKLYTVDLESGLHYLLRVELAAHKSLAGAEL
KTLKDFVTVLAKLFPGRPPVKKLLEMLQEWLASLPLDRIPYNAVLDLVNNKMRISGIFLTNHIKWVGCQG
SRSELRGYPCSLWKLFHTLTVEASTHPDALVGTGFEDDPQAVLQTMRRYVHTFFGCKECGEHFEEMAKES
MDSVKTPDQAILWLWKKHNMVNGRLAGHLSEDPRFPKLQWPTPDLCPACHEEIKGLASWDEGHVLTFLKQ
HYGRDNLLDTYSADQGDSSEGGTLARGEEEEKRLTPPEVSHGDRDTQSVRPPGALGPRPALPESLHHSLD
GKLQSLDGPGAHKEVGGAAPFLGVDFSSLDMSLCVVLYVASSLFLMVMYFFFRVRSRRWKVKHHHPAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181701

ORF Size: 2094 bp

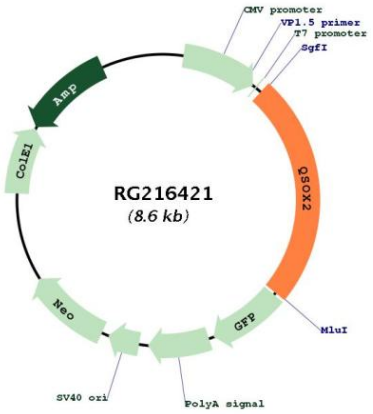
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_181701.2, NP_859052.2
RefSeq Size:	4549 bp
RefSeq ORF:	2097 bp
Locus ID:	169714
UniProt ID:	Q6ZRP7
Cytogenetics:	9q34.3
Protein Families:	Transmembrane
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 RG216421