

Product datasheet for RC212195

WVOX (NM_130791) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WVOX (NM_130791) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: WVOX
Synonyms: D16S432E; DEE28; EIEE28; FOR; FRA16D; HHCMA56; PRO0128; SCAR12; SDR41C1; WOX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212195 representing NM_130791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCGCTGCGCTACGCGGGGCTGGACGACACGGACAGTGAGGACGAGCTGCCTCCGGGCTGGGAGG
 AGAGAACCACCAAGGACGGCTGGGTTTACTACGCCAATCACACCGAGGAGAAGACTCAGTGGGAACATCC
 AAAAATGGAAAAAGAAAACGAGTGGCAGGAGATTTGCCATACGGATGGGAACAAGAACTGATGAGAAC
 GGACAAGTGTGTTTGTGACCATATAATAAAAAGAACCACCTACTTGGACCCAAGACTGGCGTTTACTG
 TGGATGATAATCCGACCAAGCCAACCACCCGGCAAAGATACGACGGCAGCACCCTGCCATGGAAATTCT
 CCAGGGCCGGGATTTCACTGGCAAAGTGGTTGTGGTCACTGGAGCTAATTCAGGAATAGGGTTCGAAACC
 GCCAAGTCTTTGCCCTCCATGGTGCACATGTGATCTTGGCCTGCAGGAACATGGCAAGGGCGAGTGAAG
 CAGTGTACGCATTTTAGAAGAATGAAAAACAAAATACCACCCTCCGCCAGAAAAGTGCAGAATAAAAAT
 TTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212195 representing NM_130791
 Red=Cloning site Green=Tags(s)

MAALRYAGLDDTSEDELPPGWEERTTKDGVVYANHTEEKTQWEHPKTGKRKRKRVAGDLPYGWEQETDEN
 GQVFFVDHINKRTTYLDPRLAFTVDDNPTKPTTRQRYDGSTTAMEILQGRDFTGKVVVVTGANSIGIFET
 AKSFALHGAHVILACRNMARASEAVSRILEEWKTKYHPPPEKCRKIKIFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_130791

ORF Size: 567 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_130791.4](#)

RefSeq Size: 959 bp

RefSeq ORF: 570 bp

Locus ID: 51741

UniProt ID: [Q9NZC7](#)

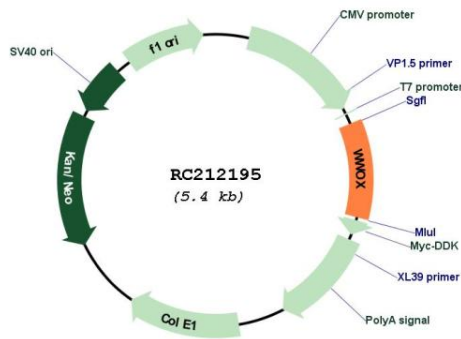
Cytogenetics: 16q23.1-q23.2

Protein Families: Druggable Genome

MW: 21.6 kDa

Gene Summary: This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) protein family. This gene spans the FRA16D common chromosomal fragile site and appears to function as a tumor suppressor gene. Expression of the encoded protein is able to induce apoptosis, while defects in this gene are associated with multiple types of cancer. Disruption of this gene is also associated with autosomal recessive spinocerebellar ataxia 12. Disruption of a similar gene in mouse results in impaired steroidogenesis, additionally suggesting a metabolic function for the protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RC212195