

Product datasheet for **RG220747**

WVOX (NM_016373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WVOX (NM_016373) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WVOX
Synonyms:	D16S432E; DEE28; EIEE28; FOR; FRA16D; HHCMA56; PRO0128; SCAR12; SDR41C1; WOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220747 representing NM_016373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGCTGCGCTACGCGGGGCTGGACGACACGGACAGTGAGGACGAGCTGCCTCCGGGCTGGGAGG
AGAGAACCACCAAGGACGGCTGGGTTTACTACGCCAATCACACCGAGGAGAAGACTCAGTGGGAACATCC
AAAACTGGAAAAAGAAAACGAGTGGCAGGAGATTTGCCATACGGATGGGAACAAGAACTGATGAGAAC
GGACAAGTGTGTTTGTGACCATATAAATAAAGAACCACCTACTTGGACCAAGACTGGCGTTTACTG
TGGATGATAATCCGACCAAGCCAACCACCCGGCAAAGATACGACGGCAGCACCCTGCCATGGAAATTCT
CCAGGGCCGGGATTTCACTGGCAAAGTGGTTGTGGTCACTGGAGCTAATTCAGGAATAGGGTTCGAAACC
GCCAAGTCTTTGCCCTCCATGGTGACATGTGATCTTGGCCTGCAGGAACATGGCAAGGGCGAGTGAAG
CAGTGTACGCATTTTAGAAGAATGGCATAAAGCCAAGGTAGAAGCAATGACCCTGGACCTCGCTCTGCT
CCGTAGCGTGCAGCATTTTGTGAAGCATTCAAGGCCAAGAATGTGCCTTTCATGTGCTTGTGTGCAAC
GCAGCAACTTTTGTCTACCTGGAGTCTACCAAAGATGGCCTGGAGACCACCTTCAAGTGAATCATC
TGGGGCACTTCTACCTTGTCCAGTCTCCAGGATGTTTTGTGCCGCTCAGCTCCTGCCGTTGTCATTGT
GGTCTCCTCAGAGTCCCATCGATTTACAGATATTAACGACTCCTTGGGAAAACGGACTTCAGTGCCTC
TCTCCAACAAAAACGACTATTGGGCGATGCTGGCTTATAACAGTCCAAGCTTGAACATCCTCTTCT
CCAACGAGCTGCACCGTGCCTCTCCCCACGCGGGTCAAGTCAACGAGTGCATCCTGGAAATATGAT
GTAATCCAACATTCATCGCAGCTGGTGGGTGTACACACTGCTGTTTACCTTGGCGAGGCCTTTCACCAAG
TCCATGCAACAGGGAGCTGCCACCACCGTGTACTGTGCTGCTGTCCAGAAGTGGAGGGTCTGGGAGGGA
TGTAATCAACAAGTGTGCCGCTGCATGCCCTACCAGAAGCTCAGAGCGAAGAGACGGCCCGACCT
GTGGGCGCTCAGCGAGAGGCTGATCCAAGAACGGCTTGGCAGCCAGTCCGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220747 representing NM_016373
 Red=Cloning site Green=Tags(s)

MAALRYAGLDDTDSEDELPPGWEERTTKDGVVYYANHTEEKTQWEHPKTGKRKRVRAGDLPYGWEQETDEN
 GQVFFVDHINKRTTYLDPRLAFTVDDNPKPTTRQRYDGSTTAMEILQGRDFTGKVVVVVTGANSIGIFET
 AKSFALHGAHVILACRNMARASEAVSRILEEWHKAKVEAMTLDLALLRSVQHF AEFKAKNVPLHVLVCN
 AATFALPWSLTKDGLETTTFQVNH LGHFYLVQLLQDVLCRSAPARVIVVSSESHRF TDINDSLGKLD FSRL
 SPTKNDYWAMLAYNRSKLCNILFSNELHRRLSPRGVTSNAVHPGNMYSNIHRSWWVYTLFLARPFTK
 SMQQAATTVYCAAVPELEGLGGMYFNCCRCMPSPEAQSEETARTLWALSERLIQERLGSQSG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016373

ORF Size: 1242 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_016373.4](#)

RefSeq Size: 2264 bp

RefSeq ORF: 1245 bp

Locus ID: 51741

UniProt ID: [Q9NZC7](#)

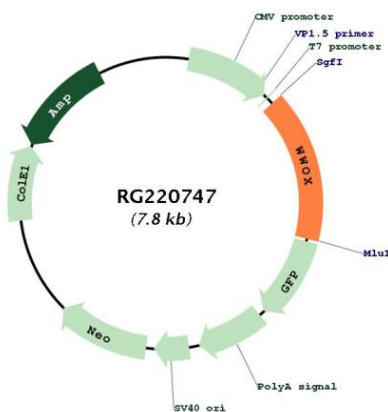
Cytogenetics: 16q23.1-q23.2

Domains: WW, adh_short

Protein Families: Druggable Genome

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 RG220747