

Product datasheet for **RC237308**

WVOX (NM_001291997) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WVOX (NM_001291997) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WVOX
Synonyms:	D16S432E; DEE28; EIEE28; FOR; FRA16D; HHCMA56; PRO0128; SCAR12; SDR41C1; WOX1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237308 representing NM_001291997 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAATTCTCCAGGGCCGGGATTTCACTGGCAAAGTGGTTGTGGTCACTGGAGCTAATTCAGGAATAG
GGTTCGAAACCGCAAGTCTTTTGCCTCCATGGTGCACATGTGATCTTGGCCTGCAGGAACATGGCAAG
GGCGAGTGAAGCAGTGTACGCATTTTAGAAGAATGGCATAAAGCCAAGGTAGAAGCAATGACCCTGGAC
CTCGCTCTGCTCCGTAGCGTGCAGCATTTTGTGAAGCATTCAAGGCCAAGAATGTGCCTCTTCATGTGC
TTGTGTGCAACGCAGCAACTTTTGTCTACCTGGAGTCTCACCAAAGATGGCCTGGAGACCACCTTTCA
AGTGAATCATCTGGGCACTTCTACCTGTCCAGCTCCTCCAGGATGTTTTGTGCCGCTCAGCTCCTGCC
CGTGTCAATTGTGGTCTCCTCAGAGTCCCATCGATTTACAGATATTAACGACTCCTTGGGAAAACCTGGACT
TCAGTCGCCTCTCTCAACAAAAACGACTATTGGGCGATGTGGCTTATAACAGGTCCAAGCTCTGCAA
CATCCTCTTCTCAACGAGCTGCACCGTCGCCTCTCCCCACGGGGTACGTCGAACGCAGTGCATCCT
GGAAATATGATGTACTCCAACATTCATCGCAGCTGGTGGGTGTACACACTGCTGTTTACCTTGGCGAGGC
CTTTCACCAAGTCCATGCAACAGGGAGCTGCCACCACCGTACTGTGCTGCTGTCCAGAAGTGGAGGG
TCTGGGAGGGATGTACTTCAACAACTGCTGCCGCTGCATGCCCTCACCAGAAGCTCAGAGCGAAGAGACG
GCCCGGACCCTGTGGGCGCTCAGCGAGAGGCTGATCCAAGAACGGCTTGGCAGCCAGTCCGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237308 representing NM_001291997
 Red=Cloning site Green=Tags(s)

MEILQGRDFTGKVVVVTGANSIGIFETAKSFLHGAHVILACRNMARASEAVSRILEEWHKAKVEAMTLD
 LALLRSVQHF AEFKAKNVPLHVLVCNAATFALPWSLTKDGLTTFQVNLGHFYLQLLQDVLCRSAPA
 RVIVVSSESHRF TDINDSLGKLD SRLSPTKNDYWAMLAYNRSKLCNILF SNELHRRLSPRGVTSNAVHP
 GNMMYSNIHRSWVYVYLLFLTLARPFTKSMQQAATTVYCAAVPELEGLGGMYFNCCRCMPSPEAQSEET
 ARTLWALSERLIQERLGSQSG

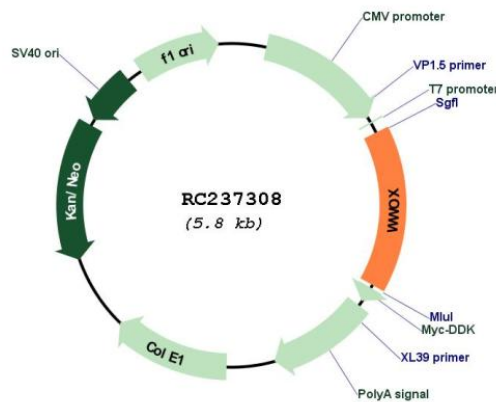
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291997

ORF Size: 903 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:	<ol style="list-style-type: none">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_001291997.2
RefSeq Size:	2440 bp
RefSeq ORF:	906 bp
Locus ID:	51741
UniProt ID:	Q9NZC7
Cytogenetics:	16q23.1-q23.2
Protein Families:	Druggable Genome
MW:	34 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]