

## Product datasheet for **RG237308**

### WVOX (NM\_001291997) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WVOX (NM_001291997) 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:	>RG237308 representing NM_001291997. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAATTCAGGGCCGGGATTTCACTGGCAAAGTGGTTGTGGTCACTGGAGCTAATTCAGGAATA
GGGTTTCGAAACCGCCAAGTCTTTTGCCTCCATGGTGCACATGTGATCTTGGCCTGCAGGAACATGGCA
AGGGCGAGTGAAGCAGTGTACGCATTTTGAAGAATGGCATAAAGCCAAGGTAGAAGCAATGACCTG
GACCTCGTCTGCTCCGTAGCGTGCAGCATTTTGTGAAGCATTCAAGGCCAAGAATGTGCCTTTCAT
GTGCTTGTGTCAACGCAGCAACTTTTGTCTACCTGGAGTCTCACCAAGATGGCCTGGAGACCACC
TTTCAAGTGAATCATCTGGGCACTTCTACCTTGTCCAGTCTCCAGGATGTTTTGTGCCGCTCAGCT
CCTGCCGGTGTCAATTGTGGTCTCCTCAGAGTCCCATCGATTTACAGATATTAACGACTCCTTGGGAAAA
CTGGACTTCAGTCGCCTCTCTCCAACAAAAACGACTATTGGGCGATGCTGGCTTATAACAGGTCCAAG
CTCTGCAACATCCTCTTCTCCAACGAGCTGCACCGTCGCCTCTCCCCACGCGGGGTACGTCGAACGCA
GTGCATCCTGAAATATGATGTACTCCAACATTCATCGCAGTGGTGGGTGTACACACTGCTGTTTACC
TTGGCGAGGCCTTTCACCAAGTCCATGCAACAGGGAGCTGCCACCACCGTGTACTGTGCTGTGCCA
GAACTGGAGGGTCTGGGAGGGATGTACTTCAACAACTGCTGCCGCTGCATGCCCTCACCAGAAGCTCAG
AGCGAAGAGACGGCCCGACCCGTGGGCGCTCAGCGAGAGGCTGATCCAAGAACGGCTTGGCAGCCAG
TCCGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237308  
 Blue=ORF Red=Cloning site Green=Tag(s)

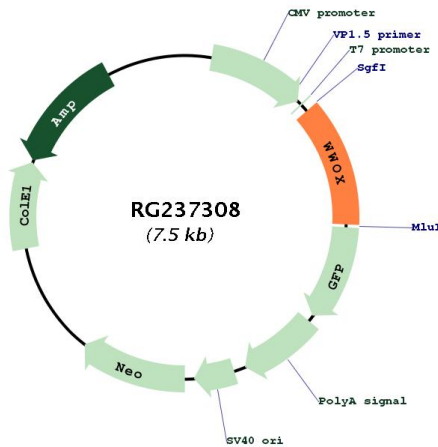
MEILQGRDFTGKVVVVTGANSIGIFETAKSFLHGAHVILACRNMARASEAVSRILEEWHKAKVEAMTL  
 DLALLRSVQHF AEFKAKNVPLHVLVCNAATFALPWSLTKDGLTTFQVNLGHFYL VQLLQDVLCRSA  
 PARVIVVSSESHRTDINDSLGKLD SRLSPTKNDYWAMLAYNRSKL CNILF SNELHRRLSRPGVT SNA  
 VHPGNMYSNIHRSWVYTLFLARPF TKSMMQGAATTVYCAA VPELEGLGGMVFNNCCRCMPSPEAQ  
 SEETARTLWALSERLIQERLGSQSG  
**TRTRPLEME**SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291997

<b>ORF Size:</b>	903 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001291997.2</a>
<b>RefSeq Size:</b>	2440 bp
<b>RefSeq ORF:</b>	906 bp
<b>Locus ID:</b>	51741
<b>UniProt ID:</b>	<a href="#">Q9NZC7</a>
<b>Cytogenetics:</b>	16q23.1-q23.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	34 kDa
<b>Gene Summary:</b>	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]