

## Product datasheet for **MG222833**

### Wnt9b (NM\_011719) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wnt9b (NM\_011719) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Wnt9b  
**Synonyms:** clf; clf1; wnt-14b; wnt-15; Wnt14b; Wnt15  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222833 representing NM\_011719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGCCCCGCGCCGCGCTGGCCCTGGCTGCGCTCTGCCTGCTGGTGCTGCCTGCCGCTGCCGCCCG  
 CCGCTACTTCGGCCTGACCGGTCGTGAGGTCCTGACACCCTCCAGGCCTGGGTACGGCAGCAGCCCC  
 GGCACAGGCTGGTGTCTCACCTGAAGCAGTGTGACCTACTGAAGCTGTCCAGGCGGCAGAAGCAGCTCTGC  
 AGGCGGGAGCCCCGCTGGCTGAGACCCTGAGGGATGCTGCACACCTGGGGCTGTGGAATGTCAGTTCC  
 AGTTCAGGCAGGAGCGCTGGAAGTGCAGCCTGGAGGGGAGGACTGGCCTGCTCCAGAGAGGCTTTAAGGA  
 GACGGCCTTCCTGTATGCAGTGTCTGCAGCTGCCCTCACGCATGCACTGGCCAGGCCTGCAGTGTGGG  
 CGCATGGAGCGCTGACTTGTGACGACTCCCCAGGCCTGGAGAGCCGGCAGGCCTGGCAGTGGGGTGTGT  
 GTGGTGACAATCTGAAGTACAGCACCAAGTTCTCAGCAACTTCTGGGGCCCAAGAGAGGAAGCAAGGA  
 CCTGAGGGCGAGGGCTGACGCCACAACACCCACGTGGGCATCAAGGCTGTGAAGAGCGGCCTGAGAACA  
 ACCTGCAAGTGCCATGGTGTGTGTCAGGCTCCTGTGCTGTTCTGACCTGTTGGAAGCAGCTCTCCCCGTTTC  
 GCGAGACCGGCCAGGTGCTGAAGCTACGCTATGACACGGCTGTCAAGGTGTCCAGTGCACCAACAGGC  
 CTTGGGTGCTGAGCTATGGGCCCGCTAAGCCAGGTGGTCCCGCCAAGGGCCTAGCCCTCGTCCC  
 GGGGACCTGGTCTACATGGAAGATTCTCCAGCTTCTGCCGCCAGCAAGTACTCTCCGGCACCGGCAG  
 GCAGGGTGTGTTCTCGAGACTCCAGTTGCAGCAGCCTATGCTGTGGCGAGGCTACGACACCCAGAGCCG  
 CATGGTGGTTTTCTCCTGCCACTGTCAGGTGCAGTGGTGTGCTACGTGGAGTGCCAGCAGTGTGCACAG  
 CAGGAGCTCGTGTATACCTGCAAGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222833 representing NM\_011719  
Red=Cloning site Green=Tags(s)

MRPAPALALAALCLLVLPAAAAAAAYFGLTGREVLTPFPGLGTAAPAQAG AHLKQCDLLKLSRRQKQLC  
 RREPGLAETLRDAAHLGLLECFQFRQERWNC SLEGR TGLLQRFKETAFLYAVSAAAL THALARACSAG  
 RMERCTCDDSPGLESRQAWQWGVCGDNLKYSTKFLSNFLGPKRGSKDLRARADAHNTHVGIKAVKSGLR T  
 TCKCHGVSGSCAVRTCWKQLSPFRETGQVLKLR YDTAVKVSSATNEALGRLELWAPAKPGGPAKGLAPR  
 GDLYVMEDSPFCRPSKYSFGTAGRVC SRDSSSSLCCGRGYDTQSRMVVFSCHCQVQWCCYVECQCAQ  
 QELVYTCKR

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2275\\_e06.zip](https://cdn.origene.com/chromatograms/ja2275_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011719

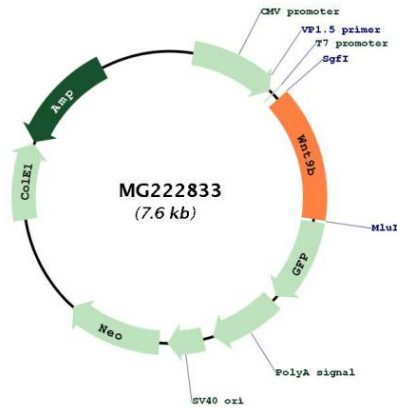
**ORF Size:** 1077 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_011719.4</a></u> , <u><a href="#">NP_035849.3</a></u>
<b>RefSeq Size:</b>	4519 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	22412
<b>UniProt ID:</b>	<u><a href="#">O35468</a></u>
<b>Cytogenetics:</b>	11 67.47 cM
<b>Gene Summary:</b>	Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:22461561, PubMed:16054034, PubMed:17537789). Required for normal embryonic kidney development, and for normal development of the urogenital tract, including uterus and part of the oviduct and the upper vagina in females, and epididymis and vas deferens in males (PubMed:16054034). Activates a signaling cascade in the metanephric mesenchyme that induces tubulogenesis (PubMed:16054034, PubMed:17537789). Acts upstream of WNT4 in the signaling pathways that mediate development of kidney tubules and the Mullerian ducts (PubMed:16054034). Plays a role in cranofacial development and is required for normal fusion of the palate during embryonic development (PubMed:16054034, PubMed:22461561, PubMed:25257647).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222833