

## Product datasheet for MC209655

### Wnt7a (NM\_009527) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt7a (NM_009527) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wnt7a
Synonyms:	A1849442; px; tw; Wnt-7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209655 representing NM_009527 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCGGAAAGCGGGCGCTGCCTGGGCCACCTCTTTCTCAGCCTGGGCATAGTCTACCTCCGGATCG  
GTGGCTTCTCTTCGGTGGTAGCTCTGGGTGCGAGCATCATCTGTAACAAGATCCCAGGCCTGGCTCCAG  
ACAGCGGGCAATCTGCCAGAGCCGGCCGACGCCATCATCGTCATAGGAGAAGGCTCCCAAATGGGCTG  
GACGAGTGTCACTTTCAGTTCCGAAATGGCCGTTGGAAGTCTCAGCGCTGGGAGAGCGTACTGTCTTCG  
GGAAGGAGCTCAAAGTGGGGAGTCGGGAGGCTGCCTTACCTATGCGATTATCGCTGCGGGCGTGGCCCA  
TGCCATCACTGCTGCCTGCACCCAGGGCAACTGAGCGACTGTGGCTGCGACAAGGAGAAGCAAGGCCAG  
TACCACCGGGACGAGGGCTGGAAGTGGGGTGGTCTCTGCCGACATCCGCTACGGCATCGGCTTCGCCA  
AGGTCTTCGTGGATGCCCGGGAGATCAAGCAGAAATGCCCGGACGCTCATGAACTTACACAATAACGAGGC  
GGTCCGGAAGATCCTGGAGGAGAACATGAAGCTGGAGTGTAAAGTGCCATGGTGTGTGAGGCTCCTGTACC  
ACTAAGACGTGCTGGACCACACTGCCACAGTTCGAGAGCTAGGCTACGTGCTCAAGGACAAATACAACG  
AGGCCGTCCACGTGGAGCCTGTGCGTGCCAGTCGAAACAAGCGGCCACCTTTCTGAAGTCAAGAAGCC  
CCTGTCTACCGAAGCCATGGACACTGACCTGGTGTATATCGAGAAGTCAACCAATTACTGTGAAGAG  
GACCCAGTGACAGGCAGCGTGGGTACCCAGGGCCGAGCCTGCAATAAGACAGCCCTCAGGCCAGTGGCT  
GTGACCTCATGTGCTGTGGCCGTGGCTACAACACACACCAAGTACGCCCGGGTGTGGCAGTGAACACTGCAA  
ATTCCACTGGTGTGCTACGTCAAGTGTAAACAGTGCAGCGAGCGCACGGAGATGTATACGTGCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2037\\_h08.zip](https://cdn.origene.com/chromatograms/ja2037_h08.zip)



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_009527
<b>Insert Size:</b>	1050 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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>	<a href="#">BC049093</a> , <a href="#">AAH49093</a>
<b>RefSeq Size:</b>	3176 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	22421
<b>UniProt ID:</b>	<a href="#">P24383</a>
<b>Cytogenetics:</b>	6 40.45 cM

**Gene Summary:**

Ligand for members of the frizzled family of seven transmembrane receptors that functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:18230341, PubMed:20530549, PubMed:23629626). Plays an important role in embryonic development, including dorsal versus ventral patterning during limb development, skeleton development and urogenital tract development (PubMed:7885472, PubMed:9769174, PubMed:9790192). Required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (PubMed:28803732). Required for normal, sexually dimorphic development of the Mullerian ducts, and for normal fertility in both sexes (PubMed:9790192). Required for normal neural stem cell proliferation in the hippocampus dentate gyrus (PubMed:23629626). Required for normal progress through the cell cycle in neural progenitor cells, for self-renewal of neural stem cells, and for normal neuronal differentiation and maturation (PubMed:23629626). Promotes formation of synapses via its interaction with FZD5 (PubMed:20530549). [UniProtKB/Swiss-Prot Function]