

Product datasheet for MC209655

Wnt7a (NM_009527) Mouse Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Wnt7a (NM_009527) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Wnt7a |
| Synonyms: | AI849442; 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**CGATCGC**C

ATGACCCGGAAAGCGCGGCTGCCTGGGCCACCTCTTTCTCAGCCTGGGCATAGTCTACCTCCGGATCG
 GTGGCTTCTCTTCGGTGGTAGCTCTGGGTGCGAGCATCATCTGTAACAAGATCCAGGCCTGGCTCCAG
 ACAGCGGGCAATCTGCCAGAGCCGGCGGACGCCATCATCGTCATAGGAGAAGGCTCCAAATGGGCCTG
 GACGAGTGTCAAGTTCAGTTCCGAAATGGCCGTTGGAAGTCTCAGCGCTGGGAGAGCGTACTGTCTTCG
 GGAAGGAGCTCAAAGTGGGAGTGGGAGGCTGCCTTACCTATGCGATTATCGCTGCGGGCGTGGCCCA
 TGCCATCACTGCTGCCTGCACCCAGGGCAACCTGAGCGACTGTGGCTGCGACAAGGAGAAGCAAGGCCAG
 TACCACCGGGACGAGGGCTGGAAGTGGGTGGTCTCTGCCGACATCCGCTACGGCATCGGCTTCGCCA
 AGGTCTTCGTGGATGCCCGGGAGATCAAGCAGAAATGCCCGGACGCTCATGAACCTACACAATAACGAGGC
 GGGTCGGAAGATCCTGGAGGAGAATGAAGCTGGAGTGAAGTGCCATGGTGTGTGAGGCTCCTGTACC
 ACTAAGACGTGCTGGACCACACTGCCACAGTTCGAGAGCTAGGCTACGTGCTCAAGGACAAATACAACG
 AGGCCGTCCACGTGGAGCCTGTGCGTGCCAGTCGAAACAAGCGGCCACCTTTCTGAAGATCAAGAAGCC
 CCTGTCTACCGCAAGCCCATGGACACTGACCTGGTGTATATCGAGAAGTCAACCAATTACTGTGAAGAG
 GACCCAGTGACAGGCAGCGTGGTACCCAGGGCCGAGCCTGCAATAAGACAGCCCTCAGGCCAGTGGCT
 GTGACCTCATGTGCTGTGGCCGTGGCTACAACACACACCAGTACGCCCGGGTGTGGCAGTGCAACTGCAA
 ATTCCACTGGTGTGCTACGTCAAGTGAACACGTGCAGCGAGCGCACGGAGATGTATACGTGCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2037_h08.zip



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|-------------------------------|--|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_009527 |
| Insert Size: | 1050 bp |
| OTI Disclaimer: | <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 custsupport@origene.com 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. More info</p> |
| 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | BC049093 , AAH49093 |
| RefSeq Size: | 3176 bp |
| RefSeq ORF: | 1050 bp |
| Locus ID: | 22421 |
| UniProt ID: | P24383 |
| Cytogenetics: | 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]