

Product datasheet for **MR226684**

Wnt7b (NM_001163634) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wnt7b (NM_001163634) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Wnt7b
Synonyms: Wnt-7b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226684 representing NM_001163634
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCTCTGTGCGCCGCGAGCGGCTGGTCTCCGTCTATTGCCGCGAGATCTTTCTCCTTCTGTCCA
 GCGGCAGTTACCTAGCATTGTATCCGTGGTGGCCCTGGGAGCCAACATCATCTGCAACAAGATTCCTGG
 CCTGGCCCCACGGCAGCGTGCCATCTGCCAGAGCCGACCCGATGCCATCATTGTGATCGGGGAGGGGGCG
 CAGATGGGCATCGACGAGTGCCAGCACCAGTCCGATTCGGCCGCTGGAAGTCTCCGCCCTGGGCGAGA
 AGACCGTCTTCGGCAAGAACTCCGAGTAGGGAGTCGAGAGGCTGCCTTCACCTATGCCATCACGGCGGC
 GGGCGTGGCGCATGCTGTACCGCTGCCTGCAGCCAGGGCAATCTGAGCAATTGTGGCTGTACCGGGAG
 AAGCAAGGCTACTACAACCAGGCGGAAGGCTGGAAGTGGGGGGGCTGCTCAGCGGACGTCGCTACGGCA
 TCGACTTTTCTCGTCGCTTTGTGGATGCCCGTGAGATCAAAAAGAACGCCAGGCGCCTCATGAACCTTCA
 CAACAATGAGGCGGGCAGAAAGTTCTGGAGGACCGCATGAAGCTGGAATGTAAGTGTACGGTGTGTCA
 GGCTCCTGTACCACAAAACCTGCTGGACCACGCTACCTAAGTCCGCGAGGTGGCCACCTGCTCAAGG
 AGAAGTACAACGCAGCGGTGCAGGTGGAGGTGGTGGAGCCAGCCGCTGCGCCAGCCACCTTCTCGCG
 CATCAAGCAGCTACGCAGCTACCAGAAGCCTATGGAGACGGACCTGGTGTACATCGAGAAGTCGCCAAC
 TACTGCGAGGAGGACGCGGCCACGGCAGCGTGGGACGCGAGGGCGCTGTGCAACCGCACCTCGCCGG
 GGGCCGACGGCTGTGACACCATGTGCTGCGGCCGCGGCTACAACACGCACCAAGTACACCAAGGTGTGGCA
 GTGTAAGTCAAATTCCTGTTGCTTCGTCGTAAGTGAACACGTCGACGAGCGCACCGAGGCTTTC
 ACCTGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR226684 representing NM_001163634
 Red=Cloning site Green=Tags(s)

MLLLSPRSALVSVYCPQIFLLSSGSYLALSSVVALGANIICNKIPGLAPRQRAICQSRPDAIIVIGEGA
 QMGIDECQHQFRFRGRWNCALGEKTVFGQELRVGSREAAFTYAITAAGVAHAVTAACSQGNLSNCGCDRE
 KQGYNQAEQWGWGCSADVRYGIDFSRRFVDAREIKKNARLMNLHNNEAGRKVLDRMKLECKCHGVS
 GSCTTKCWTTLPKFFREVGHLLKEKYNAAVQVEVVRASRLRQPTFLRIKQLRSYQKPMETDLVYIEKSPN
 YCEEDAATGSVGTQGRLCNRTSPGADGCDTMCCGRGYNTHQYTKVWQCNCNKFHWCCFVKCNTCSERVEV
 TCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163634

ORF Size: 1059 bp

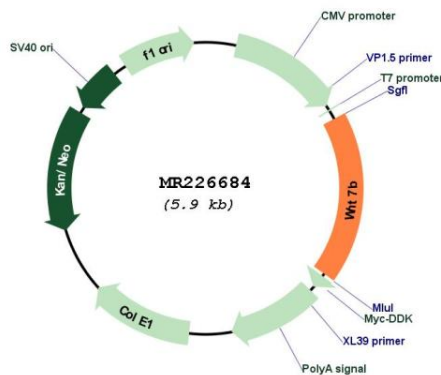
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

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:	<u>NM_001163634.1, NP_001157106.1</u>
RefSeq Size:	3510 bp
RefSeq ORF:	1062 bp
Locus ID:	22422
UniProt ID:	<u>P28047</u>
Cytogenetics:	15 40.39 cM
MW:	39.8 kDa
Gene Summary:	Ligand for members of the frizzled family of seven transmembrane receptors that functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:15923619, PubMed:28803732). Required for normal fusion of the chorion and the allantois during placenta development (PubMed:11543617). Required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (PubMed:28803732).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226684