

Product datasheet for MR223000

Wnt2b (NM_009520) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Wnt2b (NM_009520) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Wnt2b
 Synonyms: Wnt13
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR223000 representing NM_009520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAAGCTGCAGGGTGAAGTGAAGCCGCGCAGCTCGCCCTCGGCGTGCCCGCTCCCGTGCCCA
 GACCCACGGCCCCGACGTGTCCCATCTTCGCCCGCTGGGTCTTGCCTGCCTGCTGCTGCTACT
 CCTGACTCTGCCGGCCGTGTAGACACGTCTGGTGGTACATAGGGGCTCTGGGAGCCGAGTGATCTGT
 GACAACATCCCCGGTCTGGTGAAGCCGCGCAGCGGAGTTGTGTCAACGCTACCCAGACATCATGCGCTCAG
 TAGGTGAGGGTGCCCGGAATGGATCCGAGAGTGCCAGCACCAGTTCCGTACCACCGCTGGAATTGCAC
 CACACTGGACCGGACCACACTGTCTTTGGCCGCGCCATGCTCAGAAGCAGCCGGGAGGCAGCGTTTCGTC
 TATGCTATCTCGTCAGCAGGAGTGGTCCACGCTATCACTCGGGCCTGCAGCCAGGGTGAAGTGAAGTGT
 GCAGCTGTGACCCATATACCCGCGGTCCGACCATGATCAACGAGGGGACTTTGACTGGGGTGGCTGTAG
 TGACAACATCCATTACGGTGTTCGCTTTGCCAAGGCTTTTGTGGATGCCAAAGAGAAGAGGCTTAAGGAT
 GCCCGGGCCCTCATGAACCTACACAACAACCGCTGTGGTGCACGGCTGTTCCGAGATTCTGAAGCTGG
 AGTGCAAGTGTACGGTGTGAGTGGTCTCTGTACTCTGCGCACCTGCTGGAGAGCACTCTCAGACTTCCG
 ACGCACAGGTGACTACCTGAGGAGGCGATATGATGGGGCTGTGCAGGTGACGGCCACACAGGATGGGGCC
 AATTTACAGCAGCGCGCCAGGGCTATCGCCACGCCACCCGACTGATCTTGTCTACTTTGACAACCTCC
 CTGACTACTGTGTCTTGGACAAGGCTGCAGGTTCCCTAGGTACCGCAGGCCGCTCTGCAGCAAGACTTC
 TAAAGGAACAGATGGGTGTGAAATCATGTGTGTGGCCGAGGGTATGACACAACCTCGGGTCAACCCGCTC
 ACCCAGTGTGAGTGCAAATTCCTGCTGTGCTGTGCGGTGCAAGGAGTGCAGAAACTGTGGATG
 TCCACACATGCAAGGCCCTAAGAAGGCAGAGTGGCTGGACAGACC

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223000 representing NM_009520
Red=Cloning site Green=Tags(s)

MLKLQGEDEAAQLAPRRARVPPRPTAPDVSPSSARLGLACLLLLLLTLPARVDTSWWYIGALGARVIC
 DNIPGLVSRQQLCQRYPDIMRSVGEAREWIRECQHFRHHRWNCTTLD RDHTVFGRAMLRSSREAAFV
 YAISSAGVVHAI TRACSQGEL SVCSDPYTRGRHHDQRGDFDWGGCSDNIHYGVRF AKAFVDAKEKRLKD
 ARALMNLHNNRCGR TAVRRFLKLECKCHGVSGSCTLRTCWAL SDFRRTGDYLRRRYDGAVQVTATQDGA
 NF TAARQGYRHATRD LVYFDNSPDYCVLDKAAGSLGTAGRVCSKTSKGT DGCEIMCCGRGYDTTRVTRV
 TQCECKFWCCAVRCKE CRNTVDVHTCKAPKKA EWLDQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009520

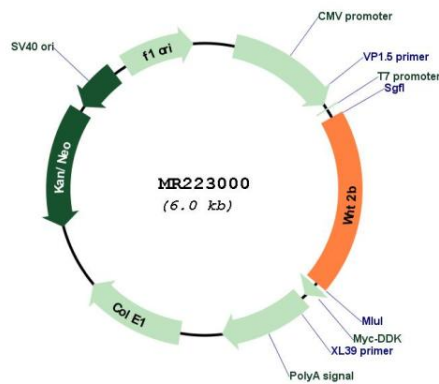
ORF Size: 1167 bp

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:**
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:** [NM_009520.3](#), [NP_033546.2](#)
- RefSeq Size:** 3573 bp
- RefSeq ORF:** 1170 bp
- Locus ID:** 22414
- UniProt ID:** [O70283](#)
- Cytogenetics:** 3 45.88 cM
- MW:** 44.2 kDa
- Gene Summary:** Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:19686689). Plays a redundant role in embryonic lung development (PubMed:19686689).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223000