

## Product datasheet for RC212840

### WNT10B (NM\_003394) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** WNT10B (NM\_003394) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** WNT10B  
**Synonyms:** SHFM6; STHAG8; WNT-12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC212840 representing NM\_003394  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGAGGAGCCCCGGCCGGCCTCCGCCCTCGGGCCTCGCGGTCTCCTGTTCTGGCGTTGTGCA  
 GTCGGGCTCTAAGCAATGAGATTCTGGGCTGAAGTTGCCTGGCGAGCCCGCTGACGGCAACACCGT  
 GTGCTTGACGCTGTCCGGCTGAGCAAGCGGCAGCTAGGCCTGTGCTGCGCAACCCGACGTGACGGC  
 TCCGCGCTTCAGGGTCTGCACATCGCGTCCACGAGTGTGAGCAGGATCGGCTGAGGGCCAAACTGCTGCAGC  
 GCTCCGCGCTTGAGGGCGGGCCGCTGCCGACCACAGCGCCATCCTCAAGCGCGTTCCGAGAAAAG  
 TGCTTTTCTCTTCCATGCTGGCTGCTGGGGTATGCACGAGTAGCCACGGCTGCAGCCTGGGCAAG  
 CTGGTGAGCTGTGGCTGTGGCTGGAAGGGCAGTGGTGAGCAGGATCGGCTGAGGGCCAAACTGCTGCAGC  
 TGCAGGCACTGTCCCAGGCAAGAGTTTCCCCACTCTCTGCCAGCCCTGGCCCTGGCTCAAGCCCCAG  
 CCCTGGCCCCAGGACACATGGGAATGGGGTGGCTGTAACCATGACATGGACTTTGGAGAGAAGTTCTCT  
 CGGGATTTCTGGATTCCAGGGAAGTCCCCGGGACATCCAGGCACGAATGCGAATCCACAACAACAGGG  
 TGGGGCGCCAGGTGGTAACTGAAAACCTGAAGCGGAAATGCAAGTGTGATGGCACATCAGGCAGCTGCCA  
 GTTCAAGACATGCTGGAGGGCGGCCAGAGTTCCGGGAGTGGGGCGCGTTGAGGGAGCGGCTGGCC  
 CGGGCCATCTTATTGATACCCACAACCGCAATCTGGAGCCTCCAGCCCGTCTGCGTCCCCGCTCGCC  
 TCTCAGGAGAGCTGGTCTACTTTGAGAAGTCTCCTGACTTCTGTGAGCGAGACCCCACTATGGGCTCCCC  
 AGGGACAAGGGCGGGCCTGCAACAAGACCAGCCGCTGTTGGATGGCTGTGGCAGCCTGTGCTGTGGC  
 CGTGGGCAACAACGTGCTCCGGCAGACAGATTGAGCGCTGCCATTGCCGCTTCCACTGGTGTGCTATG  
 TGCTGTGTGATGAGTGAAGTTACAGAGTGGTGAATGTGTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212840 representing NM\_003394  
Red=Cloning site Green=Tags(s)

MLEEPRRPPPSGLAGLLFLALCSRALSNEILGLKLPGEPLTANTVCLTSLGLSKRQLGLCLRNPDVTA  
 SALQGLHIAVHECQHQLRDQRWNCSELEGGRLPHHSAILKRGFRESAFSFSMLAAGVMHAVATACSLGK  
 LVSCGCGWKGSGEQDRLRAKLLQLQALSRGKSFPHSLSPGPGSSPSPGPQDTWEWGCCNHDMDFGEKFS  
 RDFLDSREAPRDIQARMRIHNNRVGRQVVTENLKRKCKCHGTSGSCQFKTCWRAAPEFRAVGAALRERLG  
 RAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTMGSPGTRGRACNKTSRLLDGGSLCCG  
 RGHNVLRQTRVERCHCRFHWCYVLCDECKVTEWVNVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6115\\_d03.zip](https://cdn.origene.com/chromatograms/mk6115_d03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003394

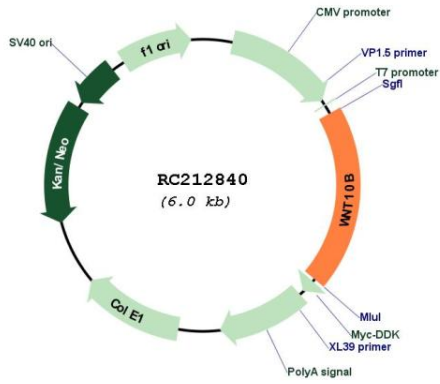
**ORF Size:** 1167 bp

**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](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>	<a href="#">NM_003394.4</a>
<b>RefSeq Size:</b>	2288 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	7480
<b>UniProt ID:</b>	<a href="#">O00744</a>
<b>Cytogenetics:</b>	12q13.12
<b>Domains:</b>	wnt
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	43 kDa
<b>Gene Summary:</b>	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It may be involved in breast cancer, and its protein signaling is likely a molecular switch that governs adipogenesis. This protein is 96% identical to the mouse Wnt10b protein at the amino acid level. This gene is clustered with another family member, WNT1, in the chromosome 12q13 region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212840