

Product datasheet for **RG212840**

WNT10B (NM_003394) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WNT10B (NM_003394) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: WNT10B
Synonyms: SHFM6; STHAG8; WNT-12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212840 representing NM_003394
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGAGGAGCCCCGGCCGGCCTCCGCCCTCGGGCCTCGCGGTCTCCTGTTCTGGCGTTGTGCA
 GTCGGGCTCTAAGCAATGAGATTCTGGGCTGAAGTTGCCTGGCGAGCCCGCTGACGGCAACACCGT
 GTGCTTGACGCTGTCCGGCTGAGCAAGCGGCAGCTAGGCCTGTGCTGCGCAACCCGACGTGACGGC
 TCCGCGCTTCAGGGTCTGCACATCGCGTCCACGAGTGTGAGCAGCAGCTGCGCGACCAGCGCTGGA
 ACTGCTCCGCGTTGAGGGCGGGCCGCTGCCGACCACAGCGCCATCCTCAAGCGCGTTCCGAGAAAG
 TGCTTTTTCTTCTCCATGCTGGCTGCTGGGTGATGCACGAGTAGCCACGGCTGCAGCCTGGGCAAG
 CTGGTGAGCTGTGGCTGTGGCTGGAAGGAGTGGTGAGCAGGATCGGCTGAGGGCCAAACTGCTGCAGC
 TGACGGCACTGTCCCAGGCAAGAGTTTCCCCACTCTCTGCCAGCCCTGGCCCTGGCTCAAGCCCCAG
 CCCTGGCCCCAGGACACATGGGAATGGGTGGCTGTAACCATGACATGGACTTTGGAGAGAAGTTCTCT
 CGGGATTTCTGGATTCCAGGGAAGCTCCCCGGGACATCCAGGCACGAATGCGAATCCACAACAACAGGG
 TGGGGCGCCAGGTGGTAAGTAAACCTGAAGCGGAAATGCAAGTGTGATGGCACATCAGGCAGCTGCCA
 GTTCAAGACATGCTGGAGGGCGGCCAGAGTTCCGGGAGTGGGGCGCGTTGAGGGAGCGGCTGGCC
 CGGGCCATCTTCTTATGATACCCACAACCGCAATTCTGGAGCCTCCAGCCCGTCTGCGTCCCCGTCG
 CTCAGGAGAGCTGGTCTACTTTGAGAAGTCTCCTGACTTCTGTGAGCGAGACCCCACTATGGGCTCCCC
 AGGGACAAGGGCGGGCCTGCAACAAGACCAGCCGCTGTTGGATGGCTGTGGCAGCCTGTGCTGTGGC
 CGTGGGCAACGTGCTCCGGCAGACAGATTGAGCGCTGCCATTGCCGCTTCCACTGGTGTGCTATG
 TGCTGTGTGATGAGTGAAGTTACAGAGTGGTGAATGTGTGTAAG

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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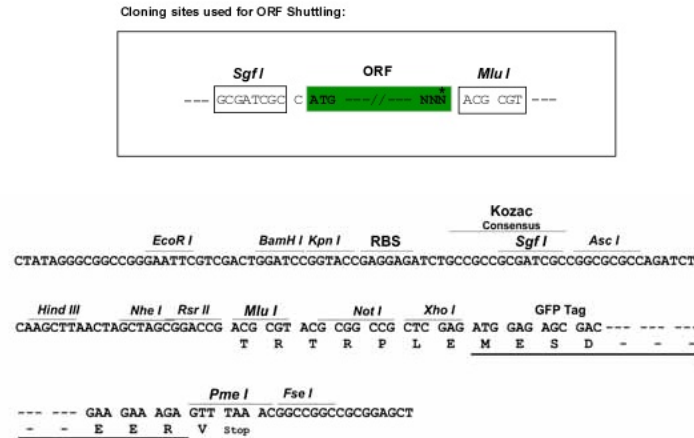
Protein Sequence: >RG212840 representing NM_003394
Red=Cloning site Green=Tags(s)

MLEEPRPRPPPSGLAGLLFLALCSRALSNEILGLKLPGEPLTANTVCLTSLGLSKRQLGLCLRNPDVTA
 SALQQLHIAVHECQHLRDQRWNCSALEGGRLPHHSAILKRGFRESAFSFMLAAGVMHAVATACSLGK
 LVSCGCGWKGSGEQDRLRAKLLQLQALSRGKSFPHSLSPGPGSSPSPGPQDTWEWGNCNMDDFGEKFS
 RDFLDSREAPRDIQARMRIHNNRVGRQVV TENLKRKCKCHGTSGSCQFKTCWRAAPEFRAVGAALRERLG
 RAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTMGSPGTRGRACNKTSRLLDGCGSLCCG
 RGHNVLRQTRVERCHCRFWCCYVLCDECKVTEWVNVCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003394

ORF Size: 1167 bp

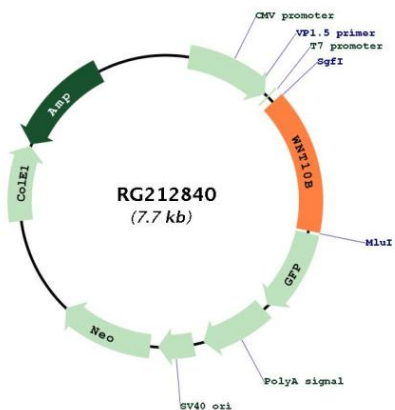
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	NM_003394.4
RefSeq Size:	2288 bp
RefSeq ORF:	1170 bp
Locus ID:	7480
UniProt ID:	O00744
Cytogenetics:	12q13.12
Domains:	wnt
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	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 RG212840