

Product datasheet for **MG224739**

Wnt10b (NM_011718) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt10b (NM_011718) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt10b
Synonyms:	Wnt12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224739 representing NM_011718 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGAGGAGCCCGGTCTCGGCCTCCGCCCTTAGGCCTCGCGGTCTCCTGTTCTTGGCTTTGTTCA
GTCGGGCTCTAAGCAATGAGATTCTGGGCTTAAACTTCCCGGTGAGCCGCCGCTGACGGCAACACCGT
GTGCTTGACCCTGTCCGACTGAGTAAGCGACAGCTGGGGCTGTGCTGCGCAGCCCGACGTGACGGCG
TCGGCGCTCCAGGGCTGCACATCGCCGTTACGAGTGTGAGCAGCAGCTGCGCGACCAGCGCTGGA
GCTCGGCACTGGAGGGCGCGGGCTGCCGACCACAGCGCCATCCTCAAGCGCGTTTCCGTGAGAG
TGCTTTCTCCTTCCATGCTGGCTGCTGGGGTCAATGATGCTGTTGCCACAGCCTGCAGCCTGGGCAAG
CTGGTGAGCTGCGGCTGCGGATGGAAGGTAGTGGTGAGCAAGACCGGCTTAGAGCCAAGCTGCTGACG
TTCAGGCACTGTCTCGGGCAAGACTTTCCCATCTCCAGCCAGCCCTGTTTCCGTGCTCAGTCCCCAG
CCCCGGCCCCCAGGACACGTGGGAATGGGGTGGCTGTAACCACGACATGGACTTCGGAGAGAAGTTCTCT
CGGGATTTCTGGATTCCAGGGAGGCTCCCCGGGACATCCAGGCGAGAATGCGGATCCACAACAACAGGG
TGGGACGCCAGGTGTTAACGGAAAACCTGAAGCGGAAGTGCAATGCCATGGAACGTCAGGACGCTGCCA
ATCAAGACCTGTTGGAGGGCAGCGCCAGAGTTCCGGGCCATCGGGCAGCACTGAGGGAGCGGCTGAGC
AGAGCCATCTTTATCGATACCCACAACCGCAACTCTGGAGCGTTCCAGCCCGCCTACGTCGGCGGCC
TCTCTGGAGAGCTGGTTTACTTTGAGAAGTCTCCTGACTTCTGCGAGCGAGACCCTACTCTGGGCTCCCC
AGGCACGAGAGGGCCGGCTTGAACAAGACCAGCCGCTCTTGGATGGCTGTGGCAGCCTGTGCTGTGGC
CGTGGGCAACAACGTGCTCCGGCAGACGCGAGTGGAGCGCTGCCACTGTGCTTTCCACTGGTGTGTATG
TGCTGTGTGATGAGTGTAAAGTCACAGAGTGGTCAATGTGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224739 representing NM_011718
Red=Cloning site Green=Tags(s)

MLEEPRSPPPLGLAGLLFLALFSRALSNEILGLKLPGEPLTANTVCLTSLGLSKRQLGLCLRSPDVTA
 SALQGLHIAVHECQHLRDQRWNCSALEGGRLPHHSAILKRGFRESAFSFMLAAGVMHAVATACSLGK
 LVSCGCGWKGSGEQDRLRAKLLQLQALSRGKTFPI SQSPVPVGSVPSGPQDTWEWGNCNHDMDGFEKFS
 RDFLDSREAPRDIQARMRIHNNRVGRQVV TENLKRKCKCHGTSGSCQFKTCWRAAPEFRAIGAALRERLS
 RAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTL GSPGTRGRACNKTSRLLDGCGSLCCG
 RGHNVLRQTRVERCHCRFWCCYVLCDECKVTEWVNVCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011718

ORF Size: 1167 bp

OTI Disclaimer: 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_011718.2](#), [NP_035848.1](#)

RefSeq Size: 2272 bp

RefSeq ORF: 1170 bp

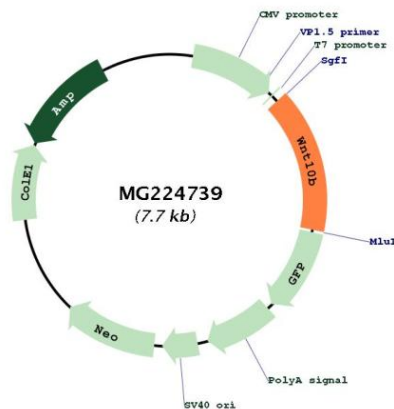
Locus ID: 22410

UniProt ID: [P48614](#)

Cytogenetics: 15 54.65 cM

Gene Summary: Member of the Wnt ligand gene family that encodes for secreted proteins, which activate the Wnt signaling cascade. Specifically activates canonical Wnt/beta-catenin signaling and thus triggers beta-catenin/LEF/TCF-mediated transcriptional programs. Involved in signaling networks controlling stemness, pluripotency and cell fate decisions. Acts in the immune system, mammary gland, adipose tissue, bone and skin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224739