

Product datasheet for **RC207691**

WNT7B (NM_058238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT7B (NM_058238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207691 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGAACTTTTCGCAAGTGGATTTCTACGTGTTTCTCTGCTTTGGCGTCTGTACGTGAAGCTCG
GAGCACTGTATCCGTGGTGGCCCTGGGAGCCAACATCATCTGCAACAAGATTCTGGCCTAGCCCCGCG
GCAGCGTGCCATCTGCCAGAGTCGGCCCGATGCCATCATTGTGATTGGGGAGGGGCGCAGATGGGCATC
AACGAGTGCCAGTACCAGTTCGGCTTCGGACGCTGGAAGTCTCTGCCCTCGGCGAGAAGACCGTCTTCG
GGCAAGAGCTCCGAGTAGGGAGCCGTGAGGCTGCCTTACGTACGCCATCACCGCGCTGGCGTGGCGCA
CGCCGTCACCGCTGCCTGCAGCCAAGGGAACCTGAGCAACTGCGGCTGCGACCGGAGAAGCAGGGCTAC
TACAACCAAGCCGAGGGCTGGAAGTGGGGCGGCTGCTCGGCCACGTGCGTTACGGCATCGACTTCTCCC
GGCGTTCGTGGACGCTCGGGAGATCAAGAAGAACGCGCGGCCTCATGAACCTGCATAACAATGAGGC
CGGCAGGAAGGTTCTAGAGGACCGGATGCAGCTGGAGTGCAAGTGCCACGGCGTGTCTGGCTCCTGCACC
ACCAAACTGCTGGACCAGCTGCCAAAGTTCGAGAGGTGGGCCACCTGCTGAAGGAGAAGTACAACG
CGGCCGTGCAAGTGGAGTGGTGGGGCCAGCCGTCTGCGGCAGCCACCTTCTGCGCATCAAACAGT
GCGCAGCTATCAGAAGCCATGGAGACAGACCTGGTGTACATTGAGAAGTCGCCAACTACTGCGAGGAG
GACGCGGCCACGGCAGCGTGGGCACGAGGGCCGTCTGCAACCGCACGTGCGCCGGCGGGACGGCT
GTGACACCATGTGCTGCGCCGAGGCTACAACACCCACAGTACACCAAGGTGTGGCAGTGAACCTGCAA
ATTCACCTGCTGCTTCGTCAGTGAACACCTGCAGCGAGCGCACCGAGGTCTTACCTGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207691 protein sequence
Red=Cloning site Green=Tags(s)

MHRNFRKWIIFYVFLCFGLVYVKLGALSSVVALGANIICNKIPGLAPRQRAICQSRPDAAIIVIGEGAQMGI
 NECQYQFRFRWNCALGEKTVFGQELRVGSREAAFTYAITAAGVAHAVTAACSQGNLSNCGCDREKQGY
 YNQAEGWKGGCSADVRYGIDFSRRFVDAREIKKNARRLMNLHNNEAGRKVLEDRMQLECKCHGVSQSCT
 TKTCWTTLPKFREVGHLLKEKYNAAVQVEVVRASRLRQPTFLRIKQLRSYQKPMETDLVYIEKSPNYCEE
 DAATGSVGTQGRLCNRTSPGADGCDTMCCGRGYNTHQYTKVWQCNCCKFWCCFVKCNTCSERTEVFTCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6128_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_058238

ORF Size: 1047 bp

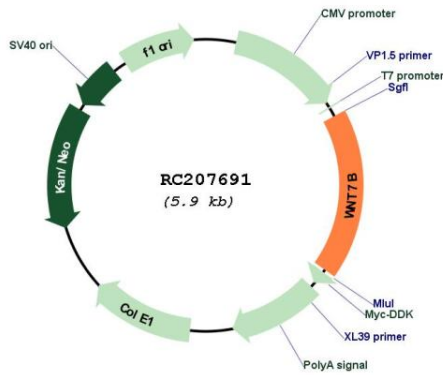
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

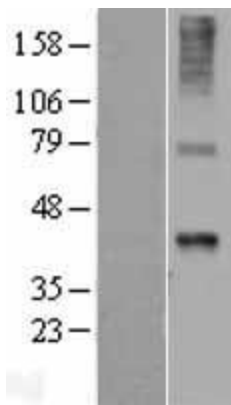
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_058238.3
RefSeq Size:	3928 bp
RefSeq ORF:	1050 bp
Locus ID:	7477
UniProt ID:	P56706
Cytogenetics:	22q13.31
Protein Families:	Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
MW:	39.3 kDa
Gene Summary:	This gene is a member of the WNT gene family, which consists of structurally related genes that 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. Among members of the human WNT family, this gene product is most similar to WNT7A protein. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC207691



Western blot validation of overexpression lysate (Cat# [LY403303]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207691 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).