

Product datasheet for **RC222670**

WNT8B (NM_003393) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | WNT8B (NM_003393) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | WNT8B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC222670 representing NM_003393 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCTTTCAAAGCCTTCTGTGTACATCTGTCTTTTCACCTGTGTCCTCCAACCTCAGCCACAGCTGGT
CGGTGAACAATTTCTGATGACTGGTCCAAAGGCTTACCTGATTTACTCCAGCAGTGTGGCAGCTGGTGC
CCAGAGTGGTATTGAAGAATGCAAGTATCAGTTTGCTGGGACCGCTGGAACCTGCCCTGAGAGAGCCCTG
CAGCTGTCCAGCCATGGTGGCTTCGCAGTGCCAATCGGGAGACAGCATTGTGCATGCCATCAGTTCTG
CTGGAGTCATGTACACCCTGACTAGAACTGCAGCCTTGAGATTTTGATAACTGTGGCTGTGATGACTC
CCGCAACGGGCAACTGGGGGACAAGGCTGGCTGTGGGAGGCTGCAAGTACAATGTGGCTTCGGAGAG
GCGATTTCCAAGCAGTTTGTGATGCCCTGAAAACAGGACAGGATGCACGGGCAGCCATGAACCTGCACA
ACAACGAGGCTGGCCGAAGGCGGTGAAGGGCACCATGAAACGCACGTGCAAGTGCCACGGCGTGTCTGG
CAGCTGCACCACGCAGACCTGTTGGCTGCAGCTGCCCGAGTTCCGCGAGGTGGGCGCGCACCTGAAGGAG
AAGTACCACGCAGCACTCAAGGTGGACCTGCTGCAGGGTGTGGCAACAGCGCGGCCGCGCGGCCCA
TCGCCGACACCTTTCGCTCCATCTCTACCGGGAGCTGGTGCACCTGGAGGACTCCCCGACTACTGCCT
GGAGAACAAAACGCTAGGGCTGCTGGGCACCGAAGGCCGAGAGTGCCTAAGGCGCGGGCGGGCCCTGGGT
CGCTGGGAACGCCGAGCTGCCCGGGCTCTGCGGGGACTGCGGGCTGGCGGTGGAGGAGCGCCGGGCCG
AGACCGTGTCCAGCTGCAACTGCAAGTTCCACTGGTGTGCGCAGTCCGCTGCGAGCAGTCCCGCCGGAG
GGTACCAAGTACTTCTGTAGCCGCGCAGAGCGGCCGCGGGGGGCGCTGCGCACAAACCCGGGAGAAAA
CCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC222670 representing NM_003393
Red=Cloning site Green=Tags(s)

MFLSKPSVYICLFTCVLQLSHSWSVNNFLMTGPKAYLIYSSSSVAAGAQSGLIEECKYQFAWDRWNCPERAL
 QLSSHGGLRSANRETAFFVHAISSAGVMTLTRNCSLGDFDNCGCCDDSRNGQLGGQGWLWGGCSDNVGFGE
 AISKQFVDALETGQDARAAMNLHNNEAGRKAVKGTMKRTCKCHGVSGSCTTQTCWLQLPEFREVGAHLKE
 KYHAALKVDLLQGAGNSAAGRGAIADTFRSISTRELVHLEDSPDYCLENKTLGLLGTEGRECLRRGRALG
 RWERRSCRRLCGDCGLAVEERRAETVSSCNCKFWCCAVRCEQCRRRRVTKYFCSRAERPRGGAAHKPGRK
 P

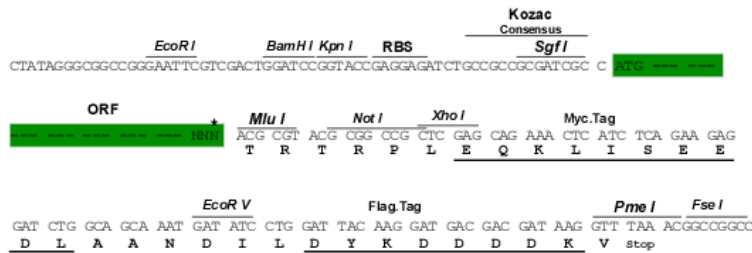
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6049_g02.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_003393

ORF Size: 1053 bp

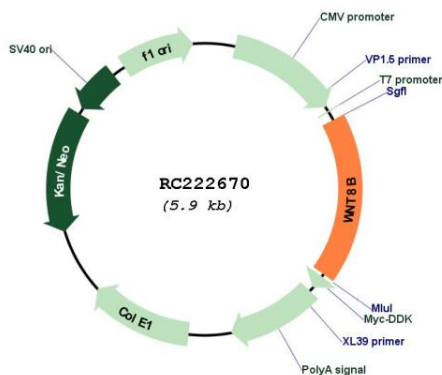
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

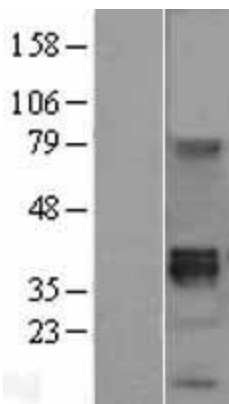
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|-------------------------------|--|
| 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. |
| RefSeq: | NM_003393.4 |
| RefSeq Size: | 2117 bp |
| RefSeq ORF: | 1056 bp |
| Locus ID: | 7479 |
| UniProt ID: | Q93098 |
| Cytogenetics: | 10q24.31 |
| Domains: | wnt |
| Protein Families: | Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway |
| Protein Pathways: | Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway |
| MW: | 38.5 kDa |
| 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 encodes a protein which shows 95%, 86% and 71% amino acid identity to the mouse, zebrafish and Xenopus Wnt8B proteins, respectively. The expression patterns of the human and mouse genes appear identical and are restricted to the developing brain. The chromosomal location of this gene to 10q24 suggests it as a candidate gene for partial epilepsy. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC222670



Western blot validation of overexpression lysate (Cat# [LY401156]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222670 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).