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# Product datasheet for RC216086

## WNT2B (NM_004185) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | WNT2B (NM_004185) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | WNT2B |
| **Synonyms:** | WNT13 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC216086 representing NM_004185
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGGATGGCCTTGGAGTGGTAGCCATAAGCATTTTTGGAATTCAACTAAAAACTGAAGGATCCTTGA
GGACGGCAGTACCTGGCATACCTACACAGTCAGCGTTCAACAAGTGTTTGCAAAGGTACATTGGGGCACT
GGGGGCACGAGTGATCTGTGACAATATCCCTGGTTTGGTGAGCCGGCAGCGGCAGCTGTGCCAGCGTTAC
CCAGACATCATGCGTTCAGTGGGCGAGGGTGCCCGAGAATGGATCCGAGAGTGTCAGCACCAATTCCGCC
ACCACCGCTGGAACTGTACCACCCTGGACCGGGACCACACCGTCTTTGGCCGTGTCATGCTCAGAAGTAG
CCGAGAGGCAGCTTTTGTATATGCCATCTCATCAGCAGGGGTAGTCCACGCTATTACTCGCGCCTGTAGC
CAGGGTGAACTGAGTGTGTGCAGCTGTGACCCCTACACCCGTGGCCGACACCATGACCAGCGTGGGGACT
TTGACTGGGGTGGCTGCAGTGACAACATCCACTACGGTGTCCGTTTTGCCAAGGCCTTCGTGGATGCCAA
GGAGAAGAGGCTTAAGGATGCCCGGGCCCTCATGAACTTACATAATAACCGCTGTGGTCGCACGGCTGTG
CGGCGGTTTCTGAAGCTGGAGTGTAAGTGCCATGGCGTGAGTGGTTCCTGTACTCTGCGCACCTGCTGGC
GTGCACTCTCAGATTTCCGCCGCACAGGTGATTACCTGCGGCGACGCTATGATGGGGCTGTGCAGGTGAT
GGCCACCCAAGATGGTGCCAACTTCACCGCAGCCCGCCAAGGCTATCGCCGTGCCACCCGGACTGATCTT
GTCTACTTTGACAACTCTCCAGATTACTGTGTCTTGGACAAGGCTGCAGGTTCCCTAGGCACTGCAGGCC
GTGTCTGCAGCAAGACATCAAAAGGAACAGACGGTTGTGAAATCATGTGCTGTGGCCGAGGGTACGACAC
AACTCGAGTCACCCGTGTTACCCAGTGTGAGTGCAAATTCCACTGGTGCTGTGCTGTACGGTGCAAGGAA
TGCAGAAATACTGTGGACGTCCATACTTGCAAAGCCCCCAAGAAGGCAGAGTGGCTGGACCAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:**

>RC216086 representing NM_004185
Red=Cloning site Green=Tags(s)

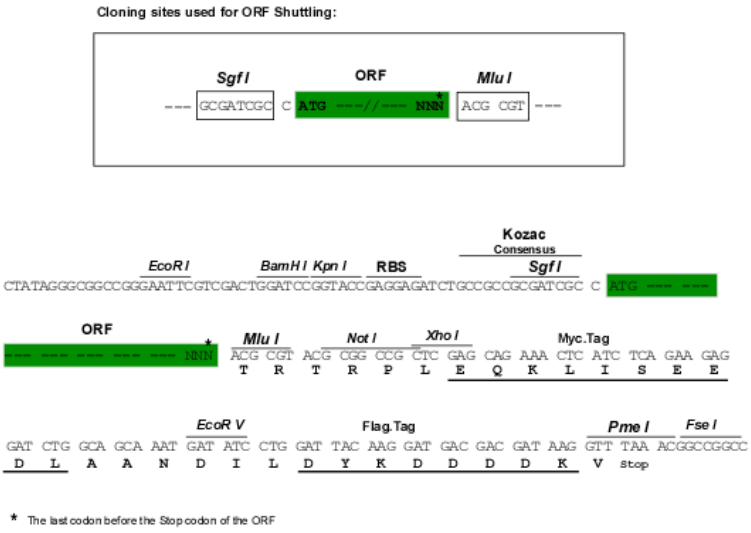
MLDGLGVVAISIFGIQLKTEGSLRTAVPGIPTQSAFNKCLQRYIGALGARVICDNIPGLVSRQRQLCQRY
PDIMRSVGEGAREWIRECQHQFRHHRWNCTTLDRDHTVFGRVMLRSSREAAFVYAISSAGVVHAITRACS
QGELSVCSCDPYTRGRHHDQRGDFDWGGCSDNIHYGVRFAKAFVDAKEKRLKDARALMNLHNNRCGRTAV
RRFLKLECKCHGVSGSCTLRTCWRALSDFRRTGDYLRRRYDGAVQVMATQDGANFTAARQGYRRATRTDL
VYFDNSPDYCVLDKAAGSLGTAGRVCSKTSKGTDGCEIMCCGRGYDTTRVTRVTQCECKFHWCCAVRCKE
CRNTVDVHTCKAPKKAEWLDQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mg2648_g04.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_004185

**ORF Size:** 1116 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_004185.2, NP_004176.2

**RefSeq Size:** 2014 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 7482

**UniProt ID:** Q93097

**Cytogenetics:** 1p13.2

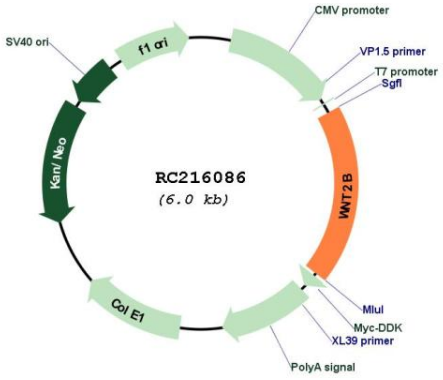
**Protein Families:** Secreted Protein

**Protein Pathways:** Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway

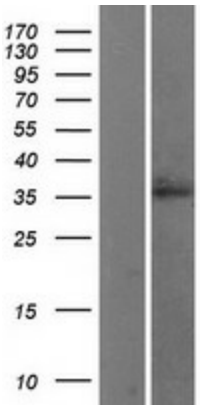
**MW:** 41.6 kDa

**Gene Summary:** This gene encodes a member of the wingless-type MMTV integration site (WNT) family of highly conserved, secreted signaling factors. WNT family members function in a variety of developmental processes including regulation of cell growth and differentiation and are characterized by a WNT-core domain. This gene may play a role in human development as well as carcinogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

## Product images:




Circular map for RC216086




Western blot validation of overexpression lysate (Cat# [LY401347]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216086 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).