

Product datasheet for **RC211204**

WNT16 (NM_057168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT16 (NM_057168) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211204 representing NM_057168 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGGGCGGCGCTCCTGGGACTGGCCGCTTGTGCGCGCTGTGGCAGCCCTGCTCGTGTGTTCC
CCTACGGAGCCCAAGGAACTGGATGTGGTTGGGCATTGCCTCCTTCGGGGTCCAGAGAAGCTGGGCTG
CGCCAATTTGCCGCTGAACAGCCGCCAGAAGGAGCTGTGCAAGAGGAAACCGTACCTGTGCCGAGCATC
CGAGAGGGCGCCCGGCTGGGCATTCAGGAGTGCGGGAGCCAGTTCAGACACGAGAGATGGAAGTGCATGA
TCACCGCCGCGCCACTACCGCCCGATGGGCGCCAGCCCTCTTTGGCTACGAGCTGAGCAGCGGCAC
CAAAGAGACAGCATTTATTTATGCTGTGATGGCTGCAGGCCTGGTGCATTCTGTGACCAGGTCATGCAGT
GCAGGCAACATGACAGAGTGTTCTGTGACACCCTTGCAAGCAGCGGCTCAGCAAGTGAAGGCTGGC
ACTGGGGGGCTGCTCCGATGATGTCCAGTATGGCATGTGGTTCAGCAGAAAAGTTCCTAGATTTCCCAT
CGGAAACACCACGGGCAAGAAAACAAAGTACTATTAGCAATGAACCTACATAACAATGAAGCTGGAAGG
CAGGCTGTCGCCAAGTTGATGTCAGTAGACTGCCGCTGCCACGGAGTTTCCGGCTCCTGTGCTGTGAAA
CATGCTGAAAACCATGTCTTCTTTGAAAAGATTGGCCATTTGTTGAAGATAAATATGAAAACAGTAT
CCAGATATCAGACAAAACAAAGAGGAAAATGCGCAGGAGAGAAAAGATCAGAGGAAAATACCAATCCAT
AAGGATGATCTGCTCTATGTTAATAAGTCTCCCACTACTGTGTAAGATAAAGAACTGGGAATCCCAG
GGACACAAGGCAGAGAATGCAACCGTACATCAGAGGGTGCAGATGGCTGCAACCTCCTCTGCTGTGCCG
AGGTTACAACACCCATGTGGTCAGGCACGTGGAGAGGTGTGAGTGAAGTTCATCTGGTGTCTATGTC
CGTTGCAGGAGGTGTGAAAGCATGACTGATGTCCACACTTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211204 representing NM_057168
Red=Cloning site Green=Tags(s)

MDRAALLGLARLCAWALLVLPYGAQGNMWWLGIASFGVPEKLGCANLPLNSRQKELCKRKPYLLPSI
 REGARLGIQECGSQFRHERWNCMITAAATTAPMGASPLFGYELSSGTKETAFIYAVMAAGLVHVSSTRSCS
 AGNMTECSCDRTLQNGGSASEGWHWGGCDDVQYGMWF SRKFLDFPIGNTTGKENVLLAMNLHNNEAGR
 QAVAKLMSVDCRCHGVSGCAVKTCWKTMSFEKIGHLLKDKYENSIQISDKTKRKMRRREKDRKIPIH
 KDDLLYVNKSPNYCVEDKKGIPGTQGRECNRTSEGADGCNLLCCGRGYNTHVVRHVERCECKFIWCCYV
 RCRRCESMTDVHTCK

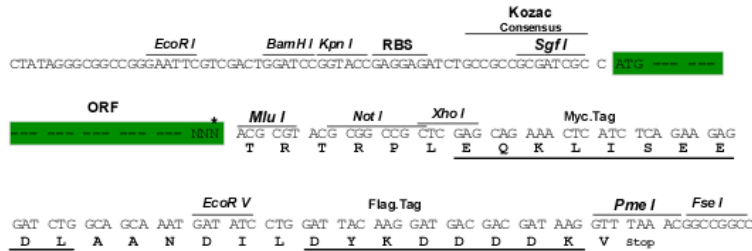
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2636_e01.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_057168

ORF Size: 1095 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_057168.2](#)

RefSeq Size: 3132 bp

RefSeq ORF: 1098 bp

Locus ID: 51384

UniProt ID: [Q9UBV4](#)

Cytogenetics: 7q31.31

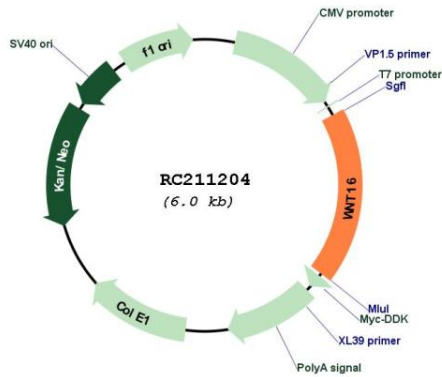
Protein Families: Secreted Protein, Transmembrane

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

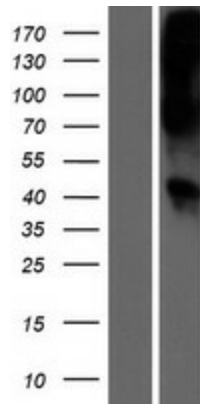
MW: 37.6 kDa

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 contains two transcript variants diverging at the 5' termini. These two variants are proposed to be the products of separate promoters and not to be splice variants from a single promoter. They are differentially expressed in normal tissues, one of which (variant 2) is expressed at significant levels only in the pancreas, whereas another one (variant 1) is expressed more ubiquitously with highest levels in adult kidney, placenta, brain, heart, and spleen. [provided by RefSeq, Jul 2008]

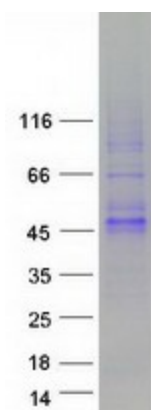
Product images:



Circular map for RC211204



Western blot validation of overexpression lysate (Cat# [LY409269]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211204 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WNT16 protein (Cat# [TP311204]). The protein was produced from HEK293T cells transfected with WNT16 cDNA clone (Cat# RC211204) using MegaTran 2.0 (Cat# [TT210002]).