

## Product datasheet for RC211115

### WNT3 (NM\_030753) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT3 (NM_030753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT3
Synonyms:	INT4; TETAMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211115 representing NM_030753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCCACCTGCTCGGGCTGCTCCTCGGCCTCTGCTCGGTGGCACCAGGGTCTCGCTGGCTACC  
CAATTTGGTGGTCCCTGGCCCTGGGCCAGCAGTACACATCTCTGGGCTCACAGCCCTGCTCTGCGGCTC  
CATCCCAGGCCTGGTCCCAAGCAACTGCGCTTCTGCCGAATTACATCGAGATCATGCCAGCGTGGCC  
GAGGGCGTGAAGCTGGGCATCCAGGAGTCCAGCACCAGTTCGGGGCCCGCTGGAAGTGCACCACCA  
TAGATGACAGCCTGGCCATCTTTGGGCCGCTCCTCGACAAGCCACCCGCGAGTCCGCTTCGTTACAGC  
CATCGCCTCGGCCGGCGTGGCCTTCGCGCTCACCCGCTCCTGCGCCGAGGGCACCTCCACCATTTGCGGC  
TGTGACTCGCATCATAAGGGGCCGCTGGCGAAGGCTGGAAGTGGGGCGGCTGCAGCGAGGACGCTGACT  
TCGGCGTGTAGTGTCCAGGGAGTTCGCGGATGCGCGGAGAAGCAGGCCGGACGCGCGCTCGGCCATGAA  
CAAGCACAACAACGAGGCGGGCCGACGACTATCCTGGACCACATGCACCTCAAATGCAAGTGCCACGGG  
CTGTGGGCAGCTGTGAGGTGAAGACCTGCTGGTGGGCGCAGCCTGACTTCCGTGCCATCGGTGACTTCC  
TCAAGGACAAGTATGACAGCGCCTCGGAGATGGTAGTAGAGAAGCACCCTGAGTCCCAGGCTGGGTGGA  
GACCCCTCCGGGCAAGTACTCGCTTCAAGCCACCCACGGAGAGGGACCTGGTCTACTACGAGAACTCC  
CCCAACTTTTGTGAGCCCAACCCAGAGACGGGTTCTTTGGCACAAGGGACCGGACTTGAATGTCACCT  
CCACGGCATCGATGGCTGCGATCTGCTGTGGCCGGGGCCACAACACGAGGACGGAGAAGCGGAA  
GGAAAAATGCCACTGCATCTTCCACTGGTGTCTACGTGCTGAGTCCAGGAGTGTATTTCGCATCTACGAC  
GTGCACACCTGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC211115 representing NM\_030753  
Red=Cloning site Green=Tags(s)

MEPHLLGLLLGLLLGGTRVLGYPIWWSLALGQQYTSLSQPLLCGSIPGLVPKQLRFCRNYIEIMPSVA  
 EGVKLGIQEQHQFRGRRWNCTTIDDSLAIIFGPVLDKATRESAFVHAIASAGVAVTRSCAEGTSTICG  
 CDSHHKGGPPGEGWKWGGCEDADFGVLVSREFADARENRPDARSAMNKHNNAGRTTILDHMLKCKCHG  
 LSGSEVKTCWWAQPDFRAIGDFLKDKYDASEMVEKHRESRGWVETLRKAYSLEFKPPTERDLVYVENS  
 PNFCEPNPETGSFGTRDRTCNVTSHGIDGCDLLCCGRGHNTRTEKRKEKCHCIFHWCCYVSCQECIRIYD  
 VHTCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2643\\_c07.zip](https://cdn.origene.com/chromatograms/mg2643_c07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030753

**ORF Size:** 1065 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\\_030753.5](#)

**RefSeq Size:** 1506 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 7473

**UniProt ID:** [P56703](#)

**Cytogenetics:** 17q21.31-q21.32

**Domains:** wnt

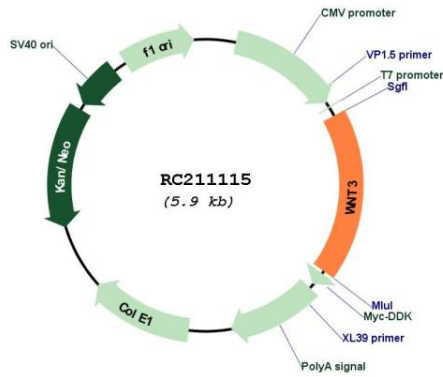
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

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

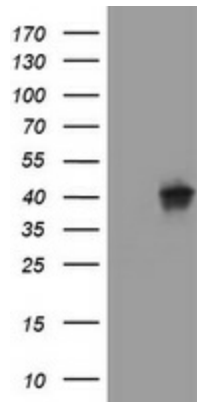
**MW:** 37.4 kDa

**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 98% amino acid identity to mouse Wnt3 protein, and 84% to human WNT3A protein, another WNT gene product. The mouse studies show the requirement of Wnt3 in primary axis formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway. This gene is clustered with WNT15, another family member, in the chromosome 17q21 region. [provided by RefSeq, Jul 2008]

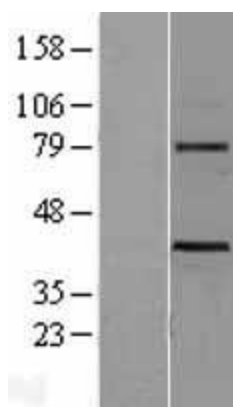
Product images:



Circular map for RC211115



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY WNT3 (Cat# RC211115, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-WNT3 (Cat# [TA801867]). Positive lysates [LY403082] (100ug) and [LC403082] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403082]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211115 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).