

## Product datasheet for RC202575

### WNT6 (NM\_006522) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT6 (NM_006522) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202575 representing NM_006522 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCCGCCCTTACCCTCCCGCCTCGGGCTGCTGCTGCTGCTCCTGTGCCGGCGCACGTCCGGC  
GACTGTGGTGGGCTGTGGGCAGCCCTTGGTTATGGACCTACCAGCATCTGCAGGAAGGCACGGCGGT  
GGCCGGGCGGCAGGCCGAGTTGTGCCAGGCTGAGCCGGAAGTGGTGGCAGAGCTAGCTCGGGGCGCCCG  
CTCGGGGTGCGAGAGTGCCAGTTCAGTTCGGCTTCCGCCGCTGGAATTGCTCCAGCCACAGCAAGGCCT  
TTGGACGCATCCTGCAACAGGACATTCGGGAGACGGCCTTCGTGTCGCCATCACTGCGGCCGGCGCCAG  
CCACGCCGTACGCAGGCCTGTTCTATGGGCGAGCTGCTGCAGTGGCGCTGCCAGGCGCCCGGGGCGG  
GCCCTCCCGGCCCTCCGGCCTGCCCGCACCCCGGACCCCTGGCCCGCGGGCTCCCGGAAGGCA  
GCGCCGCTGGGAGTGGGAGGCTGCGGCGACGACGTGGACTTCGGGACGAGAAGTCGAGGCTCTTTAT  
GGACGCACGGCACAAGCGGGGACCGGAGACATCCGCGGTTGGTGAACGACAAACAGAGGCGGGC  
AGGCTGGCCGTGCGGAGCCACACGCGCACCGAGTGCAATGCCACGGGCTGTCGGGATCATGCGCGCTGC  
GCACCTGCTGGCAGAAGCTGCCTCCATTCGCGAGGTGGGCGCGGGCTGCTGGAGCGCTCCACGGCGC  
CTCACGCGTCATGGGCACCAACGACGGCAAGGCCCTGTCGCCCGCTCCGCACGCTCAAGCCGCCGGC  
CGAGCGGACCTCCTCTACGCCCGGATTGCCCCGACTTCTGCGCCCCAACCGACGACCCGGCTCCCGCG  
GCACGCGCGGTGCGCCTGCAATAGCAGCGCCCGGACCTCAGCGGCTGCGACCTGCTGTGCTGCGGCCG  
CGGGCACCCGAGGAGAGCGTGCAGCTCGAAGAGAAGTGCCTGTGCCGCTTCCACTGGTGTGCGTAGTA  
CAGTGCCACCGCTGCCGTGTGCGCAAGGAGCTCAGCCTCTGCCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202575 representing NM\_006522  
Red=Cloning site Green=Tags(s)

MLPPLPSRLGLLLLLLLCPAHVGGLLWWAVGSPLVMDPTSI~~CRKARRLAGRQAE~~LCQAEPEVVAELARGAR  
 LGVRECQFQFRFRRWNCSSHSKAFGRILQQDIRETAFVFAITAAGASHAVTQACSMGELLQCGCQAPRGR  
 APPRPSGLPGTPGPPGPAGSPEGSAAWEWGGCGDDVDFGDEKSRLFMDARHKRGRGDIRALVQLHNNEAG  
 RLAVRSHTRTECKCHGLSGSCALRTCWQKLPPFREVGARLLERFHGASRVMGTTNDGKALLPAVRTLKPPG  
 RADLLYAADSPDFCAPNRRTGSPGTRGRACNSSAPDLSGCDLLCCGRGHRQESVQLEENCLCRFHWCCVY  
 QCHRCRVRKELSLCL

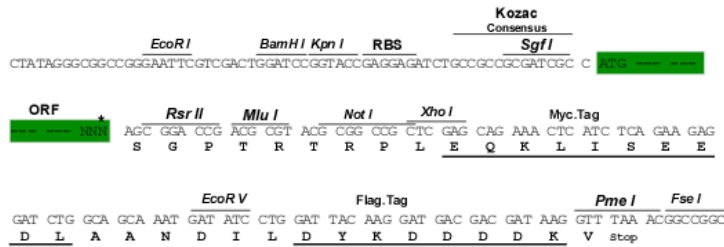
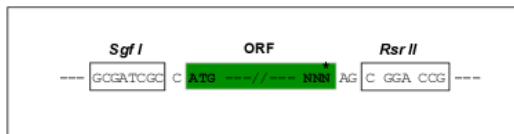
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2643\\_e04.zip](https://cdn.origene.com/chromatograms/mg2643_e04.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_006522

**ORF Size:** 1095 bp

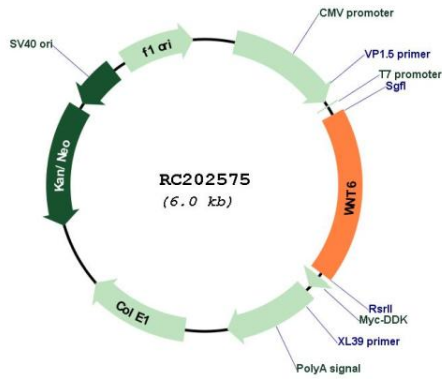
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

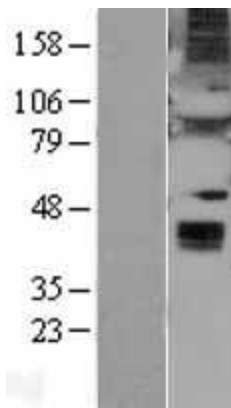
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_006522.1</a>
<b>RefSeq Size:</b>	1700 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	7475
<b>UniProt ID:</b>	<a href="#">Q9Y6F9</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	wnt
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane
<b>Protein Pathways:</b>	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	39.72 kDa
<b>Gene Summary:</b>	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 is overexpressed in cervical cancer cell line and strongly coexpressed with another family member, WNT10A, in colorectal cancer cell line. The gene overexpression may play key roles in carcinogenesis. This gene and the WNT10A gene are clustered in the chromosome 2q35 region. The protein encoded by this gene is 97% identical to the mouse Wnt6 protein at the amino acid level. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202575



Western blot validation of overexpression lysate (Cat# [LY401954]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202575 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).