

## Product datasheet for **SC305748**

### WNT16 (NM\_057168) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT16 (NM_057168) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNT16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305748 representing NM_057168. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGACAGGGCGCGCTCCTGGGACTGGCCCGCTGTGCGCGCTGTGGGCAGCCCTGCTCGTGCTGTTC  
 CCCTACGAGAGCCCAAGGAACTGGATGTGGTTGGGCATTGCCTCCTTCGGGGTCCAGAGAAGCTGGGC  
 TGCGCCAAATTTGCCGCTGAACAGCCGCCAGAAGGAGCTGTGCAAGAGGAAACCGTACCTGCTGCCGAGC  
 ATCCGAGAGGGCGCCCGCTGGGCATTCAGGAGTGCAGGAGCCAGTTCAGACACGAGAGATGGAAGTGC  
 ATGATCACCGCCCGCCCACTACCGCCCGATGGGCGCCAGCCCTCTTTGGCTACGAGCTGAGCAGC  
 GGCACCAAGAGACAGCATTTATTTATGCTGTGATGGCTGCAGGCCTGGTGCATTCTGTACCAGGTCA  
 TGCAGTGCAGGCAACATGACAGAGTGTTCTGTGACACCACCTTCAGAACGCGGCTCAGCAAGTGAA  
 GGCTGGCACTGGGGGGCTGCTCCGATGATGTCCAGTATGGCATGTGGTTCAGCAGAAAGTTCCTAGAT  
 TTCCCCATCGGAAACACCACGGGCAAAGAAAACAAAGTACTATTAGCAATGAACCTACATAACAATGAA  
 GCTGGAAGGCAGGCTGTCGCAAGTTGATGTGAGTACTGCCGCTGCCACGGAGTTTCCGGCTCCTGT  
 GCTGTGAAACATGCTGGAAACCATGTCTCTTTTAAAAGATTGGCCATTTGTTGAAGGATAAATAT  
 GAAAACAGTATCCAGATATCAGACAAAACAAAGAGGAAAATGCGCAGGAGAGAAAAAGATCAGAGGAAA  
 ATACCAATCCATAAGGATGATCTGCTCTATGTTAATAAGTCTCCCACTACTGTGTAGAAGATAAGAAA  
 CTGGGAATCCCAGGGACACAAGGCAGAGAATGCAACCGTACATCAGAGGGTGCAGATGGTGCAACCTC  
 CTCTGCTGTGGCCGAGGTTACAACCCATGTGGTCAGGCACGTGGAGAGGTGTGAGTGTAAAGTTTCATC  
 TGGTGCTGCTATGTCGTTGCAGGAGGTGTGAAAGCATGACTGATGTCCACACTTGCAAGTAA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_057168
Insert Size:	1098 bp


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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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>RefSeq:</b>	<u>NM_057168.1</u>
<b>RefSeq Size:</b>	3132 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	51384
<b>UniProt ID:</b>	<u>Q9UBV4</u>
<b>Cytogenetics:</b>	7q31.31
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	40.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) differs from variant 2 at the 5' terminus including 5' UTR and the coding region for the N-terminus. Isoform 1, encoded by this variant, is 90% identical to the mouse Wnt16 protein at the amino acid level.</p>