

## Product datasheet for **SC109791**

### WNT4 (NM\_030761) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT4 (NM_030761) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNT4
Synonyms:	SERKAL; WNT-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_030761 edited  
ATGAGTCCCGCTCGTGCCTGCGTTCGCTGCGCCTCCTCGTCTTCGCCGCTTCTCAGCC  
GCCGCGAGCAACTGGCTGTACCTGGCCAAGCTGTCGTGCGTGCGGAGCATCTCAGAGGAG  
GAGACGTGCGAGAACTCAAGGGCCTGATCCAGAGGCAGGTGCAGATGTGCAAGCGGAAC  
CTGGAAGTCATGGACTCGGTGCGCCGCGGTGCCAGCTGGCCATTGAGGAGTGCCAGTAC  
CAGTTCGGAAACCGGCGCTGGAAGTGTCCACACTCGACTCCTTGCCCGTCTTCGGCAAG  
GTGGTGACGCAAGGGACTCGGGAGGCGCCTTCGTGTACGCCATCTTTCGGCAGGTGTG  
GCCTTTGCAGTGACGCGGGCGTGCAGCAGTGGGAGCTGGAGAAGTGGCGCTGTGACAGG  
ACAGTGATGGGGTCAGCCACAGGGCTTCCAGTGGTCAGGATGCTCTGACAACATCGCC  
TACGGTGTGCCCTTCTCACAGTCGTTTGTGGATGTGCGGGAGAGAAGCAAGGGGGCCTCG  
TCCAGCAGAGCCCTCATGAACCTCCACAACAATGAGGCCGCGAGGAAGGCCATCCTGACA  
CACATGCGGGTGAATGCAAGTGCCACGGGGTGTGAGGCTCCTGTGAGGTAAAGACGTGC  
TGGCGAGCCGTGCCGCCCTTCCGCCAGGTGGGTACGCACTGAAGGAGAAGTTTGTGAGT  
GCCACTGAGGTGGAGCCACGCCGCTGGGCTCCTCCAGGGCACTGGTGCCACGCAACGCA  
CAGTTCAGCCGCACACAGATGAGGACCTGGTGTACTTGGAGCCTAGCCCCGACTTCTGT  
GAGCAGGACATGCGCAGCGCGTGTGTTGGCACGAGGGGCCGCACATGCAACAAGACGTCC  
AAGGCCATCGACGGCTGTGAGCTGCTGTGCTGTGGCCGCGGCTTCCACACGGCGCAGGTG  
GAGCTGGCTGAACGCTGCAGCTGCAAATCCACTGGTGTGCTTTCGTCAAGTGCCGGCAG  
TGCCAGCGGCTCGTGGAGTTGCACACGTGCCGATGA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_030761 unedited NNGGTTCAAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGTCTGG TCCGCGCCGGGCAGCGGGCGCAGCAGCGGGCAGGCTGCCGGCAGGCACACGGAGGCAGAG CCCCGCGCGCGCGCCCCGGCCCCGCGGGCGCCACCTGCAGCCCCGACGGGAGGCC CCCCGCGCGCGCAGCCGTGCCCGGGCGGGCGCCCGCGGGCACCATGAGTCCCCGC TCGTGCCTGCGTTTCGCTGCGCCTCCTCGTCTTCGCCGTCTTCTCAGCCGCGGAGCAAC TGGCTGTACCTGGCCAAGCTGTCTGTCGGTGGGGAGCATCTCAGAGGAGGAGACGTGCGAG AAACTCAAGGGCCTGATCCAGAGGCAGGTGCAGATGTGCAAGCGAACCTGGAAGTCATG GACTCGGTGCGCCGCGGTGCCAGCTGGCCATTGAGGAGTGCCAGTACCAGTTCCGGAAC CGGCGCTGGAAGTCTCCACACTCGACTCCTTGCCCGTCTTCGGCAAGTGGTGACGCAA GGGACTCGGGAGGCGGCCTTCGTGTACGCCATCTCTTCGGCAGGTGTGGCCTTTCAGTG ACGCGGGCGTGCAGCAGTGGGGAGCTGGAGAAGTGC GGCTGTGACAGGACAGTGCATGGG GTCAGCCACAGGGCTTCAGGGGTCAGGATGCTCTGACACATCGCCTACGGTGTGGCCT TTCTACAGTCTTTGTGGATGTCCGGAAGAGCAAGGGGGCTCGTCCAGCAAAGCCCTC ATGAACCTCACACCATGAGCCGCGCAGAAAGCCCTCCTGACACATGCGGTGGATGGAA GGCCACGGGGTGAAGCTCCTGTAGGAAAAACGCTGGGAAGCCCGCCGCTTCGCCA GGGGTACCCCTGAAGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_030761
<b>Insert Size:</b>	2500 bp
<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>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>	<a href="#">NM_030761.3</a> , <a href="#">NP_110388.2</a>
<b>RefSeq Size:</b>	1595 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	54361
<b>UniProt ID:</b>	<a href="#">P56705</a>
<b>Cytogenetics:</b>	1p36.12
<b>Domains:</b>	wnt
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane

<b>Protein Pathways:</b>	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<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, and is the first signaling molecule shown to influence the sex-determination cascade. It encodes a protein which shows 98% amino acid identity to the Wnt4 protein of mouse and rat. This gene and a nuclear receptor known to antagonize the testis-determining factor play a concerted role in both the control of female development and the prevention of testes formation. This gene and another two family members, WNT2 and WNT7B, may be associated with abnormal proliferation in breast tissue. Mutations in this gene can result in Rokitansky-Kuster-Hauser syndrome and in SERKAL syndrome. [provided by RefSeq, Jul 2008]