

Product datasheet for **SC103558**

WNT6 (NM_006522) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT6 (NM_006522) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNT6
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

>OriGene sequence for NM_006522 edited
 GAATTCGGCACCAGGAGACACAGGCGCTGGCTGCCCCGTCCGCTCTCCGCTCCGCCGCG
 CCCTCCTCGCCCGGATGGGCCCCCGCCGCCGCGGATCCCTCGCTCCCGCCGCCG
 CCGTTGCGCTCGCCGCGCTCGACTGAAGCCCGGGCCCTCGCGCGCCGGTTCCGCCCG
 CAGCCTCGCCCCTGCCACCCGGGCGCCGTAGGGCGGTACAGATGCTGCCGCCCTTAC
 CCTCCCGCTCGGGCTGCTGCTGCTGCTCCTGTGCCCGCGCACGTGGCGGACTGT
 GGTGGGCTGTGGCAGCCCTTGGTTATGAGCCCTACCAGCATCTGAGGAAGGCACGGC
 GGCTGGCCGGGCGCAGCCGAGTTGTGCCAGGCTGAGCCGGAAGTGGTGGCAGAGCTAG
 CTCGGGGCGCCCGCTCGGGGTGCGAGAGTGCCAGTTCAGTTCGCTTCCGCCGCTGGA
 ATTGCTCCAGCCACAGCAAGGCCTTTGGACGCATCCTGCAACAGGACATTCGGGAGACGG
 CCTTCGTGTTCCGCATCACTGCGCCGGCGCCAGCCACGCCGTACGCAGGCCTGTTCTA
 TGGGCGAGCTGCTGCAGTGGGCTGCCAGGCGCCCGGGGGGGCCCTCCCGGCCCT
 CCGGCCTGCCCGCACCCCGGACCCCTGGCCCCGGGGCTCCCGGAAGGCAGCGCCG
 CCTGGGAGTGGGAGGCTGCGGCGACGACGTGGACTTCGGGGACGAGAAGTCGAGGCTCT
 TTATGGACGCGCGCACAAAGCGGGACGCGGAGACATCCGCGGTTGGTGAACGCACA
 ACAACGAGGCGGGCAGGCTGGCCGTGCGGAGCCACACGCCACCGAGTGCAAATGCCACG
 GGCTGTGGGATCATGCGCGCTGCGCACCTGCTGGCAGAAGCTGCCTCCATTTCCGAGG
 TGGGCGCGCGGCTGCTGGAGCGCTTCCACGGCGCCTCACGCGTATGGGCACCAACGACG
 GCAAGGCCTGCTGCCCGCGTCCGCACGCTCAAGCCCGCGGGCCGAGCGGACCTCCTCT
 ACGCCCGGATTCGCCCGACTTCTGCGCCCCAACCGACGCACCGGCTCCCGCGCACGC
 GCGGTGCGCCTGCAATAGCAGCGCCCCGGACCTCAGCGGCTGCGACCTGCTGTGCTGCG
 GCCCGGGCACCAGGAGAGCGTGCAGCTCGAAGAGAACTGCCTGTGCCGCTTCCACT
 GGTGCTGCGTAGTACAGTGCCACCGCTGCCGTGTCGCAAGGAGCTCAGCCTGTGCTGT
 GACCCCGCCCGCCGCTAGACTGACTTCGCGCAGCGGTGGCTCGCACCTGTGGGACT
 CAGGGCACCGGCACCGGGCGCCTCTCGCGCTCGAGCCAGCCTCTCCCTGCCAAAGCCC
 AACTCCCAGGGCTCTGGAATGGTGGAGCGAGGGGCTTGGAGGAACGCCACCCACGAA
 GGCCAGGGCGCCAGACGGCCCCGAAAAGGCGCTCGGGGAGCGTTAAAGGACACTGTAC
 AGGCCCTCCCTCCCTTGGCCTTAGGAGGAAACAGTTTTTTAGACTGGAAAAAGCCAG
 TCTAAAGCCTCTGGATACTGGGCTCCCGAAGTCTGGCCACAGGATGGTGGGTGAGG
 TTAGTATCAATAAAGATATTTAAACCACCAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006522 unedited
 GTCAGAATTTGTAATACGACTTCACTATAGGGCGCCGCGAATTCGCACCAGAGACACAG
 CGCTGGCTGCCCCGTCCGCTCTCCGCTCCGCCGCGCCCTCCTCGCCGGGATGGGCCCC
 CCCGCGCCGCGGATCCCTCGCTCCCGCCCGCCGCGGTTGCGCTCGCCGCGCTCGCAC
 TGAAGCCCGGGCCTCGCGCGCCGGTTCGCCCGCAGCCTCGCCCCCTGCCACCCGG
 GCGGCCGTAGGGCGTACGATGCTGCCGCCCTTACCCTCCCGCTCGGGCTGCTGCTGC
 TGCTGCTCCTGTGCCCGCGCACGTGCGGGACTGTGGTGGGCTGTGGGAGCCCTTGG
 TTATGGACCCTACCAGCATCTGCAGGAAGGCACGCGGCTGGCCGGGCGGAGGCCGAGT
 TGTGCCAGGCTGAGCCGGAAGTGGTGGCAGAGTAGCTCGGGGCGCCCGGCTCGGGGTGC
 GAGAGTGCCAGTTCAGTTCGCTTCCGCCGCTGGAATTGCTCCAGCCACAGCAAGGCCT
 TTGGACGCATCCTGCAACAGGACATTCGGGAGACGGCCTTCGTGTTCCGCATCACTGCGG
 CCGGCGCCAGCCACGCCGTACGCAGGCCTGTTCTATGGGCGAGCTGCTGCAGTGGGCT
 GCCAGGCGCCCGCGGGCGGGCCCTCCCGGCCCTCCGGCTGCCCGCACCCCGGAC
 CCCCTGGCCCCGCGGGCTCCCGGAAGGCAGCGCCGCTGGGGAGTGGGGAGGCTGCNG
 CGACNACNTGGACTTCGGGGACGAGAAGTCGAGGCTCTTTATGGACGCGCGCACAAAGCG
 GGGACCGNAGACATNCGCGGTTGGTGGCACTGCACNAACACGAGCGGNNCAGCCTGGC
 CGTGCGAGCCACGCGCACCGATGCAATGCCACGGCTGTGGGATCAGCNCGCTGCGACT
 GCTGCAGAGCTGCTATTCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006522 unedited NGGGTAACACTATGNACCGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTGG TGGTTTAAATATCTTTATTGATACTAACCTCACCCACCATCCTGTGGCCAGCAGTTCTGG GGAGCCCAGTATCCAGAGGCCTTAGACTGGCTTTTTTCCAGTCTAAAAAACTGTTTCCT CCTAGAGGCCAAGGGGAGGGAGGCCTGTACAGTGTCTTTAAACGCTCCCCGAGCGCT TTTCCGGGGCCGTCTGGCGCCCTGGGCCTTCGTGGGTGGGCGTTCTCTCAAGCCCCTCGC CTCACCATTTCCAGAGCCCTGGGAGTTGGGCTTTGGCAGGGAGAGGCTGGGCTCGAGCGG CGAGAGGCGCCCGTGCCGGTGCCCTGAGGTCCCACAGGTGCGAGCCACCCTGCGCGAA GTCAGTCTAGCGGCCGGGCGGGTTCACAGGCAGAGGCTGAGCTCCTTGCACACACGGC AGCGGTGGCACTGTACTACGACAGCAGTGAAGCGGCACAAGCAGTTCTGTTGAGCT GCACGCTCTCCTGGCGGTGCCCGCGCCGACGACAACAAGTCGACGCCGCTGAAGTCCG GGGCGTCTTTTTGCAAGCGGAACGCGCTGCCGGGGAAACAGTGCCTCGGGTGGGGG GCGCAAATTGGGCGAAATCGCGCGAAAGGAAGTTCCCTTCGGCCGGCGGCTTAACCTT CCGACCGGGGCAACAAGGCTTTGCCTCGTTGGGGCCCTGACCCCGAGGCGCCTGGAA ACGCTTCAAAAACCGGTCCCCCTTTTGGAAAGGAGCGATTTCTGCACCTGTTGCCCC GCGCAAGTCCCCAAGGCGGGGCTATTGCCTCCGGCGGGTGGGGTCCCCCGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_006522
Insert Size:	1730 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_006522.3</u> , <u>NP_006513.1</u>
RefSeq Size:	1700 bp
RefSeq ORF:	1098 bp
Locus ID:	7475
UniProt ID:	<u>Q9Y6F9</u>
Cytogenetics:	2q35
Domains:	wnt
Protein Families:	Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane

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