

## Product datasheet for **SC329400**

### WNT5A (NM\_001256105) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT5A (NM_001256105) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNT5A
Synonyms:	hWNT5A
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC329400 representing NM_001256105. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCTGGAAGTGAATGTCTTCCAAGTTCTTCCTAGTGGCTTTGGCCATATTTTCTCCTTCGCCAG  
GTTGTAATTGAAGCAATTCTTGGTGGTCGCTAGGTATGAATAACCTGTTTCAGATGTCAGAAGTATAT  
ATTATAGGAGCACAGCCTCTCTGCAGCCAAGTGGCAGGACTTTCTCAAGGACAGAAGAACTGTGCCAC  
TTGTATCAGGACCACATGCAGTACATCGGAGAAGGCGCAAGACAGGCATCAAAGAATGCCAGTATCAA  
TTCCGACATCGAAGGTGGAAGTGCAGCACTGTGGATAACACCTCTGTTTTTGGCAGGGTGATGCAGATA  
GGCAGCCGCGAGACGGCCTTCACATACGCGGTGAGCGCAGCGGGGTGGTGAACGCCATGAGCCGGGCG  
TGCCGCGAGGGCGAGCTGTCCACCTGCGGCTGCAGCCGCGCGCGCCCAAGGACCTGCCGCGGGAC  
TGGCTCTGGGGCGGCTGCGGCGACAACATCGACTATGGCTACCGCTTTGCCAAGGAGTTCGTGGACGCC  
CGCGAGCGGGAGCGCATCCACGCCAAGGGCTCCTACGAGAGTGCTCGCATCCTCATGAACCTGCACAAC  
AACGAGGCCGGCGCAGGACGGTGTACAACCTGGCTGATGTGGCTGCAAGTGCCATGGGGTGTCCGGC  
TCATGTAGCCTGAAGACATGCTGGCTGCAGTGGCAGACTTCGCAAGGTGGGTGATGCCCTGAAGGAG  
AAGTACGACAGCGCGCGGCCATGCGGCTCAACAGCCGGGCAAGTTGGTACAGGTCAACAGCCGCTTC  
AACTCGCCACCACACAAGACCTGGTCTACATCGACCCAGCCCTGACTACTGCGTGCGCAATGAGAGC  
ACCGGCTCGCTGGGCACGCAGGGCCGCTGTGCAACAAGACGTCGGAGGGCATGGATGGCTGCGAGCTC  
ATGTGCTGCGGCCGTGGCTACGACCAGTTCAAGACCGTGCAGACGGAGCGCTGCCACTGCAAGTTCAC  
TGGTGCTGCTACGTCAAGTGCAAGAAGTGCACGGAGATCGTGGACCAGTTTGTGTGCAAGTAG

Restriction Sites:	SgfI-MluI
ACCN:	NM_001256105
Insert Size:	1098 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).



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<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_001256105.1</u>
<b>RefSeq Size:</b>	5599 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	7474
<b>UniProt ID:</b>	<u>P41221</u>
<b>Cytogenetics:</b>	3p14.3
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
<b>Protein Pathways:</b>	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	40.9 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 encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>