

## Product datasheet for **RR209326**

### Wnt5a (NM\_022631) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wnt5a (NM\_022631) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Wnt5a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209326 representing NM\_022631  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAGAAGCCATTGGAATATTAAGCCAGGAGTGGCTTTGGGACCGCTGGAGGTGCCATGTCTTCCA  
AGTTCTTCCTAATGGCTTTGGCCACATTTTCTCCTTCGCCAGGTTGTAATAGAAGCTAATCTTGGTG  
GTCCCTAGGTATGAATAACCCTGTTGATGTCAGAAAGTATACATCATAGGAGCACAGCCTCTGCAGC  
CAACTGGCGGGACTTTCTCAAGGACAGAAGAACTCTGCCACTTGTATCAGGACCACATGCAGTACATTG  
GAGAAGGCGCGAAGACGGGCATCAAAGAGTGCCAGTACCAGTTCCGGCATCGGAGATGGAAGTGCAGCAC  
AGTGGACAACACTTCTGTCTTTGGCAGGGTGATGCAAATAGGCAGCCGAGAGACAGCCTTACGTACGCG  
GTGAGCGCTGCTGGAGTGGTAAATGCCATGAGCCGAGCATGTCGGGAAGGCGAGCTGTCTACCTGTGGTT  
GCAGCCGCGCAGCAGCCCCAAGGACTTACCTCGGACTGGCTGTGGGCGGTTGCGGGGACAACATCGA  
CTATGGTACCGCTTCGCCAAGGAATTCGTGGACGCAGAGAAAGGGAACGAATCCACGCCAAGGGCTCC  
TATGAGAGCGCACGCATCCTCATGAACTGCACAACAATGAAGCAGGTCGCAGGACAGTATACAACCTGG  
CAGATGTAGCCTGTAAGTGCCATGGAGTGTCTGGCTCCTGTAGCCTCAAGACATGCTGGCTGCAGCTGGC  
GGACTTCCGCAAGGTGGCGATGCCCTCAAGGAGAAGTATGACAGCGCAGCGCCATGAGGTTGAACAGC  
CGGGGCAAGCTGGTACAGGTCAACAGCCGCTTCAACTCCCAACACGCAGGACCTGGTCTACATCGACC  
CAAGTCCGGACTACTGTGTGCGCAACGAGAGCACTGGCTCACTGGGCACGCAGGGACGCCTGTGCAACA  
GACCTCAGAGGGGATGGACGGCTGCGAGCTCATGTGCTGTGGCGTGGCTATGACCAGTTAAGACGGTG  
CAGACCGAACGCTGCCATTGCAAGTTTCACTGGTGTGCTATGTCAAGTGTAAAAAGTGCACGGAGATTG  
TGGATCAGTTCGTGTGCAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209326 representing NM\_022631  
 Red=Cloning site Green=Tags(s)

MKKPIGILSPGVALGTAGGAMSSKFFLMALATFFSFAQVVEANSWWSLGMNPNVQMSEVYIIGAQLPLCS  
 QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYA  
 VSAAGVNVNMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS  
 YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCLKTCWLQLADFRKVGDLKKEKYDSAAAMRLNS  
 RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTV  
 QTERCHCKFHWCYVCKKCTEIVDQFVCK

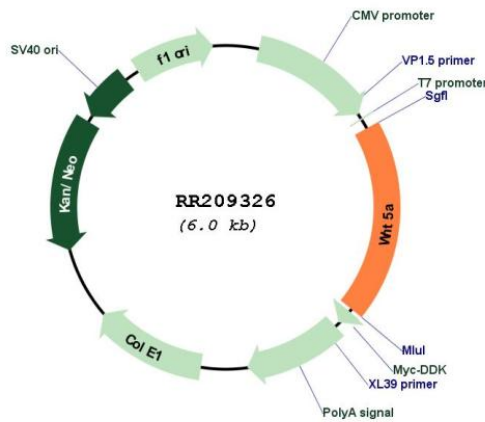
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022631

<b>ORF Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_022631.2</a> , <a href="#">NP_072153.2</a>
<b>RefSeq Size:</b>	5422 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	64566
<b>Cytogenetics:</b>	16p16
<b>MW:</b>	42.3 kDa
<b>Gene Summary:</b>	mouse homolog regulates chondrocyte differentiation and proliferation in longitudinal skeletal growth of long bones [RGD, Feb 2006]