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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RR209326 representing NM_022631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGCCCATTGGAATATTAAGCCCAGGAGTGGCTTTGGGGACCGCTGGAGGTGCCATGTCTTCCA
AGTTCTTCCTAATGGCTTTGGCCACATTTTTCTCCTTCGCCCAGGTTGTAATAGAAGCTAATTCTTGGTG
GTCCCTAGGTATGAATAACCCTGTTCAGATGTCAGAAGTATACATCATAGGAGCACAGCCTCTCTGCAGC
CAACTGGCGGGACTTTCTCAAGGACAGAAGAAACTCTGCCACTTGTATCAGGACCACATGCAGTACATTG
GAGAAGGCGCGAAGACGGGCATCAAAGAGTGCCAGTACCAGTTCCGGCATCGGAGATGGAACTGCAGCAC
AGTGGACAACACTTCTGTCTTTGGCAGGGTGATGCAAATAGGCAGCCGAGAGACAGCCTTCACGTACGCG
GTGAGCGCTGCTGGAGTGGTAAATGCCATGAGCCGAGCATGTCGGGAAGGCGAGCTGTCTACCTGTGGTT
GCAGCCGCGCAGCACGCCCCAAGGACTTACCTCGGGACTGGCTGTGGGGCGGTTGCGGGGACAACATCGA
CTATGGCTACCGCTTCGCCAAGGAATTCGTGGACGCACGAGAAAGGGAACGAATCCACGCCAAGGGCTCC
TATGAGAGCGCACGCATCCTCATGAACTTGCACAACAATGAAGCAGGTCGCAGGACAGTATACAACCTGG
CAGATGTAGCCTGTAAGTGCCATGGAGTGTCTGGCTCCTGTAGCCTCAAGACATGCTGGCTGCAGCTGGC
GGACTTCCGCAAGGTGGGCGATGCCCTCAAGGAGAAGTATGACAGCGCAGCGGCCATGAGGTTGAACAGC
CGGGGCAAGCTGGTACAGGTCAACAGCCGCTTCAACTCCCCAACCACGCAGGACCTGGTCTACATCGACC
CAAGTCCGGACTACTGTGTGCGCAACGAGAGCACTGGCTCACTGGGCACGCAGGGACGCCTGTGCAACAA
GACCTCAGAGGGGATGGACGGCTGCGAGCTCATGTGCTGTGGGCGTGGCTATGACCAGTTTAAGACGGTG
CAGACCGAACGCTGCCATTGCAAGTTTCACTGGTGCTGCTATGTCAAGTGTAAAAAGTGCACGGAGATTG
TGGATCAGTTCGTGTGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

```
>RR209326 representing NM_022631
Red=Cloning site Green=Tags(s)

MKKPIGILSPGVALGTAGGAMSSKFFLMALATFFSFAQVVIEANSWWSLGMNNPVQMSEVYIIGAQPLCS
QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYA
VSAAGVVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS
YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNS
RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTV
QTERCHCKFHWCCYVKCKKCTEIVDQFVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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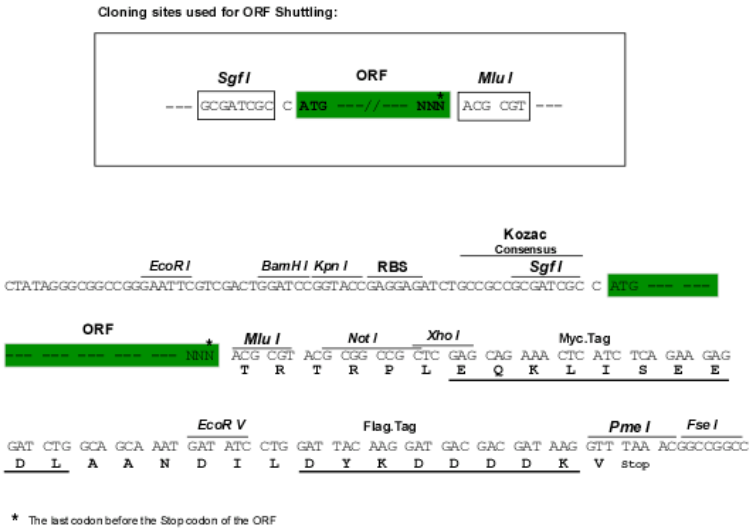
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022631

ORF Size: 1140 bp

OTI Disclaimer: 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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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Reconstitution Method:
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: NM_022631.2, NP_072153.2

RefSeq Size: 5422 bp

RefSeq ORF: 1143 bp

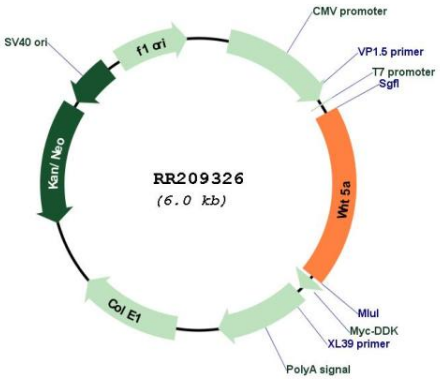
Locus ID: 64566

Cytogenetics: 16p16

MW: 42.3 kDa

Gene Summary: mouse homolog regulates chondrocyte differentiation and proliferation in longitudinal skeletal growth of long bones [RGD, Feb 2006]

Product images:



Circular map for RR209326

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