

Product datasheet for **RR204691**

Wnt5b (NM_001100489) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Wnt5b (NM_001100489) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Wnt5b
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR204691 representing NM_001100489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGGTCCCTGGGCACTGGGATGGGTTGAGGCCGCCATGCCAGCCTGCTGCTGCTGTTCTGTGGCAG
 CTCTGCTCTCCAGCTGGGCACAGCTGCTGACTGACGCCAACTCCTGGTGGTCGCTGGCTCTGAACCCGGT
 GCAGAGACCCGAGATGTTTCATCATTGGCGCTCAGCCCGTGTGCAGCCAACTCCCGGGCTTTCGCCAGGC
 CAGCGAAAGCTGTGTAGTTGTATCAGGAGCACATGTCCTACATCGGGGAGGGAGCCAAGACGGGCATCA
 GGGAGTGCCAGCACCAAGTTTCGACAGAGCGGTGGAACCTGCAGCACCGTGGACAACCTTGTCTGTCTTTGG
 CAGGGTTCATGCAGATAGGTAGCCGAGAGACTGCCTTACATATGCGGTGAGCGCTGCTGGTGTGGTGAAT
 GCCATCAGCCGAGCCTGCAGAGAGGGTGTGCTGTCCACCTGTGGCTGCAGCCGTGCAGCGAGGCCCAAGG
 ACCTGCCACGAGACTGTTGTGGGGCGGCTGTGGGACAACGTGGAGTATGGCTACCGCTTTGCCAAGGA
 GTTTGTGGATGCCCGAGAGCGTGAGAAGAACTTGGCAAGGGATCAGAGGAGCAGGGCCGAGCCCTCATG
 AACTTACAGAACAACGAGGCTGGCCGCCGGCCGTGTATAAGATGGCTGATGTCTCCTGCAAATGTCACG
 GAGTCTCCGGTCTGCAGCCTCAAGACCTGCTGGCTCCAGCTGGCTGAGTTCGCAAGGTGGGGACCG
 TTTGAAAGAGAAGTATGACAGCGCTGCGGCCATGCGTATCACCCGTACGGGCAAGCTGGAAGTACCAAC
 AGCCGCTTCAACCAGCCAGCCCGGAGGACCTGGTCTACGTAGACCCAGCCCTGACTACTGCTGCGAA
 ATGAGACCACGGGCTCCCTGGGCACCAAGGTCGCCTCTGCAACAAGACCTCAGAGGGCAGCGATGGCTG
 CGAGCTCATGTGCTGTGGCCGGCTATGACCGCTTCAAGAGCGTCCAGGTGGAACGCTGCCACTGCAGG
 TTCCACTGGTGTGCTTTGTCAGATGCAAAAAATGCACCGAGATCGTGGACCAAGTATGTCTGTAAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204691 representing NM_001100489
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MLVPGHWDGLRPAMPSSLLLLFVAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPG
 QRKLCQLYQEHMSYIGEGAKTGIRECQHFRQRNRWNCSTVDNLSVFGRVMQIGSRETAFTYAVSAAGVVN
 AISRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRALM
 NLQNNEAGRRAVYKMAADVSCCKCHGVSGSCSLKTCWLQLAEFRKVGDRLEKEYDSAAAMRITRQGLLELTN
 SRFNQPSPELVYVDPSPDYCLRNETTGLTGTQRLCNKTSEGTDGCELMCCGRGYDRFKSVQVERCHCR
 FHWCCFVRCKKCTEIVDQYVCK

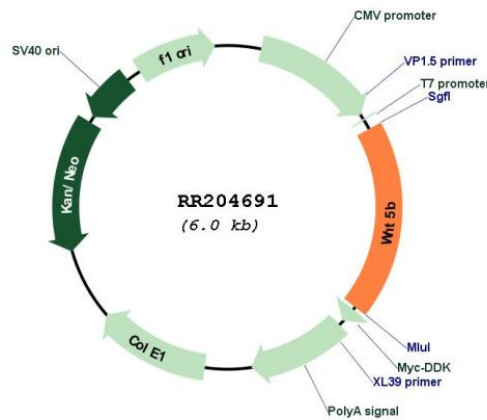
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100489

ORF Size:	1116 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).
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:	NM_001100489.1 , NP_001093959.1
RefSeq Size:	2122 bp
RefSeq ORF:	1119 bp
Locus ID:	282582
Cytogenetics:	4q42
MW:	41.9 kDa
Gene Summary:	mouse homolog regulates chondrocyte differentiation and proliferation in skeletal development [RGD, Feb 2006]