

Product datasheet for MR205524

Wnt9a (BC066165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt9a (BC066165) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wnt9a
Synonyms:	Wnt14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205524 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGATGGTCCCTTCTGGCGCGCTGGCTGGCCGGCCCTTCGGGCTGACGCTGCTGCTCGCCGCGC
TGCGCCCTTCGGCCGCTACTTCGGGCTAACAGGCAGTGAACCCCTGACTATCCTCCCTCTGACCCTGGA
GACCGAGGCTGCGGCCAAGCACACTACAAGCCTGCGACAGGCTGAAGCTGGAGCGCAAGCAGCGCCGC
ATGTGCCCGAGGACCCGGGTGTGGCCGAGACTGGTGGAGGCCGTAAGCATGAGTGCCCTGGAGTGCC
AGTACCAGTTCGGCTTTGAGCGCTGGAAGTGCACCTGGAGGGCCGCTACCGAGCCAGCCTGCTCAAGCG
AGGCTTCAAGGAGACTGCTTTCCTCTACGCCATCTCTTCTGCCGGCTGACGCATGCACTGGCCAAGGCC
TGCAAGTGCAGGCCGATGGAGCGCTGCACGTGTGATGAGGCACCCGACCTGGAAAACCGGAGGCCCTGGC
AGTGGGGCGGCTGCGGGGACAACCTCAAGTACAGCAGCAAGTTTGTCAAGGAGTTCCTGGGCCGGCGCTC
TAGCAAGGATTTGCGAGCCCGAGTGGACTTCCACAACAACCTCGTGATAAAGGCTGGAGTGGAAACCACT
TGCAAATGCCATGGTGCCTGCTGGCTCCTGCACCGTGGGACCTGCTGGCGGCAGCTAGCACCTTCCACG
AGGTGGCAAGCACCTAAACACAATATGAGACCTCGCTCAAGGTGGGAGCACTACCAATGAAGCCAC
TGGAGAGGCAGGTGCCATCTCCCACCGGGGGCCGGCTTCTGGGTGAGGAGTGGCGACCCACTGCC
CGAACACAGAGCTTGTACACTGGAGCACTCTCCAGCTTCTGCCTGGCTGGCCGCTTTTCCCCTGGCA
CGGCAGGCCGAGGTGTCACCGGAGAAGAAGTGTGAGAGTATTTGTTGTGGCCGAGGCCACAACACACA
GAGTCGTGTGGTACAAGGCCCTGCCAATGCCAGGTCCGCTGGTGTGCTACGTGGAGTGCAGGCAGTGT
ATACAGAGAGAGGAGTCTATACCTGCAAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205524 protein sequence
Red=Cloning site Green=Tags(s)

MLDGSLARWLAFAFGLTLLAALRPSAAYFGLTGSEPLTILPLTLETEAAAQAHYKACDRCLKLERKQRR
MCRDRPGVAETLVEAVMSALECQYQFRFERWNTLEGRYRASLLKRGFKETAFLYAISSAGLTHALAKA
CSAGRMRCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFHNNLVIKAGVETT
CKCHGASGSCTVRTCWRQLAPFHEVGKHLKHKYETSLKVGSTTNEATGEAGAI SPPRGRASGGGDPLP
RTPELVHLDDSPSFLAGRFSPGTAGRRCHREKNCEICCGRGHNTQSRVVTRPCQCQVRWCCYVECRQC
IQREEVYTCKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC066165

ORF Size: 1083 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:

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: [BC066165](#), [AAH66165](#)

RefSeq Size: 3306 bp

RefSeq ORF: 1085 bp

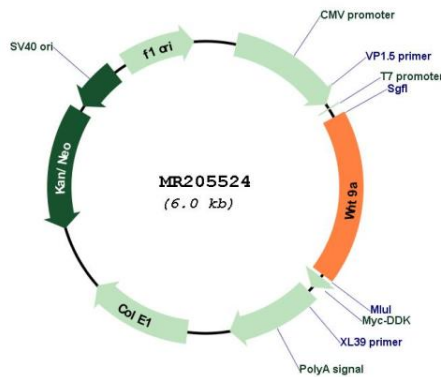
Locus ID: 216795

Cytogenetics: 11 B1.3

MW: 40 kDa

Gene Summary: Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt/beta-catenin signaling pathway (By similarity). Required for normal timing of IHH expression during embryonic bone development, normal chondrocyte maturation and for normal bone mineralization during embryonic bone development (PubMed:16818445). Plays a redundant role in maintaining joint integrity (PubMed:16818445). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205524