

## Product datasheet for **MG205524**

### Wnt9a (BC066165) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt9a (BC066165) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt9a
Synonyms:	Wnt14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205524 representing BC066165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGATGGTCCCTTCTGGCGCGCTGGCTGGCCGCGGCCCTTCGGGCTGACGCTGCTGCTCGCCGCGC  
TGCGCCCTTCGGCCGCTACTTCGGGCTAACAGGCAGTGAACCCCTGACTATCCTCCCTCTGACCCTGGA  
GACCGAGGCTGCGGCCAAGCACACTACAAGCCTGCGACAGGCTGAAGCTGGAGCGCAAGCAGCGCCGC  
ATGTGCCCGAGGACCCGGGTGTGGCCGAGACACTGGTGGAGGCCGTAAGCATGAGTGCCCTGGAGTGCC  
AGTACCAGTTCGGCTTTGAGCGCTGGAAGTGCACCTGGAGGGCCGCTACCGAGCCAGCCTGCTCAAGCG  
AGGCTTCAAGGAGACTGCTTTCCTCTACGCCATCTCTTCTGCCGGCTGACGCATGCACTGGCCAAGGCC  
TGCAAGTGCAGGCCGATGGAGCGCTGCACGTGTGATGAGGCACCCGACCTGGAAAACCGGAGGCCCTGGC  
AGTGGGGCGGCTGCGGGGACAACCTCAAGTACAGCAGCAAGTTTGTCAAGGAGTTCCTGGGCCGGCGCTC  
TAGCAAGGATTTGCGAGCCCGAGTGGACTTCCACAACAACCTCGTGATAAAGGCTGGAGTGGAAACCACT  
TGCAAATGCCATGGTGCCTGCTGGCTCCTGCACCGTGGGACCTGCTGGCGGCAGCTAGCACCTTCCACG  
AGGTGGCAAGCACCTAAACACAATATGAGACCTCGCTCAAGGTGGGAGGAGTACCAATGAAGCCAC  
TGGAGAGGCAGGTGCCATCTCCACCGCGGGGCGGGCTTCTGGGTGAGGAGTGGCGACCCACTGCC  
CGAACACAGAGCTTGTACACTGGAGCACTCTCCAGCTTCTGCCTGGCTGGCCGCTTTTCCCTGGCA  
CGGCAGGCCGAGGTGTCACCGGAGAAGAAGTGTGAGAGTATTTGTTGGCCGAGGCCACAACACACA  
GAGTCGTGTGGTACAAGGCCCTGCCAATGCCAGGTCCGCTGGTGTGCTACGTGGAGTGCAGGCAGTGT  
ATACAGAGAGGAGGTCTATACCTGCAAGGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205524 representing BC066165  
 Red=Cloning site Green=Tags(s)

MLDGSLARWLAFAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLETEAAAQAHYKACDRLKLERKQRR  
 MCRDRDPGVAETLVEAVMSALECQYQFRFERWNTLEGRYRASLLKRGFKETAFLYAISSAGLTHALAKA  
 CSAGRMERCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFHNNLVIKAGVETT  
 CKCHGASGSCTVRTCWRQLAPFHEVKGHLKHKYETSLKVGSTTNEATGEAGAI SPPRGRASGSGGDPLP  
 RTPELVHLDDSPSFLAGRFSPTAGRRCHREKNCEICCGRGHNTQSRVVTRPCQCQVRWCCYVECRQC  
 IQREEVYTCKG

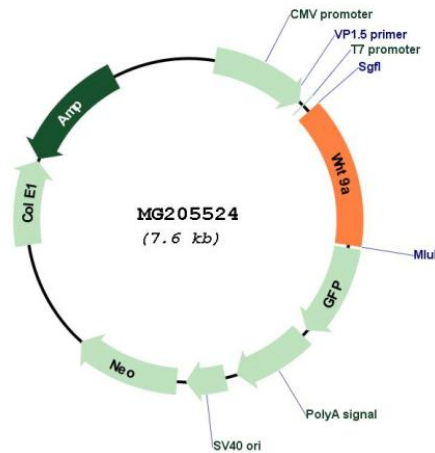
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC066165

<b>ORF Size:</b>	1085 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="#">BC066165</a> , <a href="#">AAH66165</a>
<b>RefSeq Size:</b>	3306 bp
<b>RefSeq ORF:</b>	1085 bp
<b>Locus ID:</b>	216795
<b>Cytogenetics:</b>	11 B1.3
<b>Gene Summary:</b>	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]