

Product datasheet for **MG222196**

Wnt9a (NM_139298) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt9a (NM_139298) 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:	>MG222196 representing NM_139298 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGATGGTCCCTTCTGGCGCGCTGGCTGGCCGCGGCCCTTCGGGCTGACGCTGCTGCTCGCCGCGC
TGCGCCCTTCGGCCGCTACTTCGGGCTAACAGGCAGTGAACCCCTGACTATCCTCCCTCTGACCCTGGA
GACCGAGGCTGCGGCCAAGCACACTACAAGCCTGCGACAGGCTGAAGCTGGAGCGCAAGCAGCGCCGC
ATGTGCCGAGGGACCCGGGTGTGGCCGAGACTGGTGGAGGCCGTAAAGCATGAGTGCCCTGGAGTGCC
AGTACCAGTTCGGCTTTGAGCGCTGGAAGTGCACCTGGAGGGCCGCTACCGAGCCAGCCTGCTCAAGCG
AGGCTTCAAGGAGACTGCTTTCCTCTACGCCATCTCTTCTGCCGGCTGACGCATGCACTGGCCAAGGCC
TGCAAGTGCAGGCCGATGGAGCGCTGCACGTGTGATGAGGCACCCGACCTGGAAAACCGGAGGCCCTGGC
AGTGGGGCGGCTGCGGGGACAACCTCAAGTACAGCAGCAAGTTTGTCAAGGAGTTCCTGGGCCGGCGCTC
TAGCAAGGATTTGCGAGCCCGAGTGGACTTCCACAACAACCTCGTGGGTGTGAAGGTGATAAAGGCTGGA
GTGAAACCACTGCAATGCCATGGTGTGTCTGGCTCCTGCACCGTGGGACCTGCTGGCGGCAGCTAG
CACCTTCCACGAGGTGGCAAGCACCTAAAACAAAAATGAGACCTCGCTCAAGGTGGCAGCACTAC
CAATGAAGCCACTGGAGAGGCAGGTGCCATCTCCCACCGCGGGCCGGGCTTCTGGGTGAGGAGGTGGC
GACCACTGCCCGAACACAGAGCTTGTACACTGGACGACTCTCCAGCTTCTGCCTGGCTGGCCGCT
TTTCCCCTGGCACGGCAGGCCGAGGTGTACCGGAGAGAAGAACTGTGAGAGTATTTGTTGTGGCCGAGG
CCACAACACAGAGTCGTGTGGTGACAAGGCCCTGCCAATGCCAGGTCCGCTGGTGTGCTACGTGGAG
TGCAGGCAGTGTACAGAGAGAGGAGGTCTATACCTGCAAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222196 representing NM_139298
 Red=Cloning site Green=Tags(s)

MLDGSLARWLAFAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLETEAAAQAHYKACDRLKLERKQRR
 MCRDRDPGVAETLVEAVMSALECQYQFRFERWNTLEGRYRASLLKRGFKETAFLYAISSAGLTHALAKA
 CSAGRMRCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFHNNLVGVKVIKAG
 VETTCKCHGVSGSCTVRTCWRQLAPFHEVKGHLKHKYETSLKVGSTTNEATGEAGAI SPPRGRASGSGGG
 DPLPRTPELVHLDDSPSFLAGRFSPGTAGRCHREKNCEISCCGRGHNTQSRVVTRPCQCQVWRCCYVE
 CRQCTQREEVYTCKG

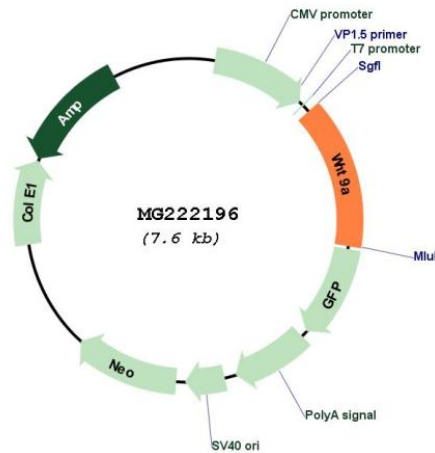
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_139298

ORF Size:	1095 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_139298.2 , NP_647459.1
RefSeq Size:	3318 bp
RefSeq ORF:	1098 bp
Locus ID:	216795
UniProt ID:	Q8R5M2
Cytogenetics:	11 B1.3
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]