

Product datasheet for MR227165

Wnt3a (NM_009522) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wnt3a (NM_009522) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Wnt3a
Synonyms: vt; Wnt-3a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227165 representing NM_009522
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCTCTCGGATACCTCTTAGTGCTCTGCAGCCTGAAGCAGGCTCTGGGCAGCTACCCGATCTGGT
 GGTCTTGGCTGTGGACCCAGTACTCTCTGAGCACTCAGCCATTCTCTGTGCCAGCATCCCAGG
 CCTGGTACCGAAGCAGCTGCGCTTCTGCAGGAACACGTGGAGATCATGCCAGCGTGGCTGAGGGTGC
 AAAGCGGGCATCCAGGAGTGCCAGCACAGTTCGAGGCCGGCGTTGGAAGTGCACCACCGTCAGCAACA
 GCCTGGCCATCTTTGGCCCTGTTCTGGACAAAGCCACCCGGGAGTCAGCCTTTGTCCATGCCATCGCCTC
 CGCTGGAGTAGCTTCGACAGTGACACGCTCCTGTGCAGAGGGATCAGCTGCTATCTGTGGGTGCAGCAGC
 CGCTCCAGGGCTCCCCAGGCGAGGGCTGGAAGTGGGGCGGCTGTAGTGAGGACATTGAATTTGGAGGAA
 TGGTCTCTCGGGAGTTTGCCGATGCCAGGGAGAACCAGGCCGATGCCCGCTCTGCCATGAACCGTCACAA
 CAATGAGGCTGGGCGCCAGGCCATCGCCAGTCACATGCACCTCAAGTGCAAATGCCACGGGCTATCTGGC
 AGCTGTGAAGTGAAGACCTGCTGGTGGTGCAGCCGACTTCCGACCATCGGGATTTCTCAAGGACA
 AGTATGACAGTGCCTCGGAGATGGTGGTAGAGAAAACCGAGAGTCTCGTGGCTGGTGGAGACCCTGAG
 GCCACGTTACACGTACTCAAGGTGCCGACAGAACCGACCTGGTCTACTACGAGGCCTCACCAACTTC
 TGCGAACCTAACCCGAAACCGCTCCTTCGGGACGCGTGACCCGACCTGCAATGTGAGCTCGCATGGCA
 TAGATGGGTGCGACCTGTTGTGCTGCGGGCGCGGCATAACGCGCGCACTGAGCGACGGAGGAGAAATG
 CCACTGTGTTTTCCATTGGTGTGCTACGTCAGCTGCCAGGAGTGACACGCTGTCTATGACGTGCACACC
 TGCAAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227165 representing NM_009522
Red=Cloning site Green=Tags(s)

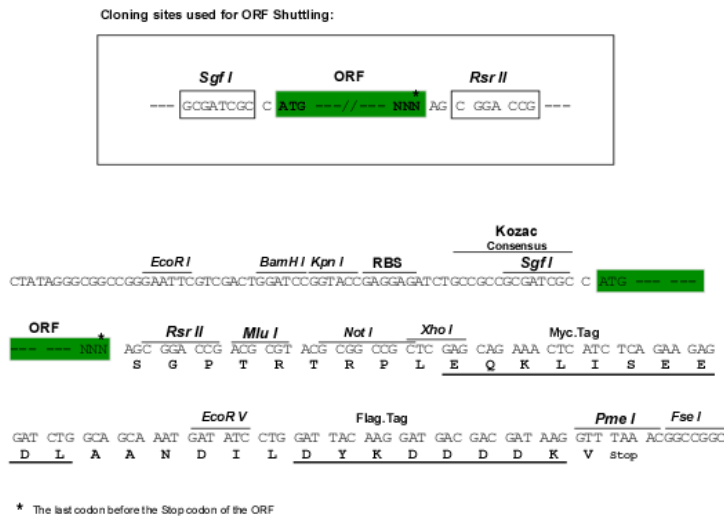
MAPLGYLLVLCSLKQALGSYPIWWSLAVGPQYSSLSTQPILCASIPGLVPKQLRFCRNYVEIMPSVAEGV
 KAGIQECQHQFRGRRWNCITVSNLAIFGPVLDKATRESAFVHAIASAGVAFVTRSCAEGSAAICGSS
 RLQGSPEGWKWGGCSEIDIEFGGMVSREFADARENRPDARSAMNRHNNEAGRQAIASHMHLKCKCHGLSG
 SCEVKTWWSQPDFRTIGDFLKDKYDSASEMVVEKHRESRGWVETLRPRYTYFKVPTERDLVYYEASP
 NFPNPEPETSFGTRDRTCNVSSHGIDGCDLLCCGRGHNARTERRREKCHCVFHWCCYVSCQECTRYVDVHT
 CK

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1699_a09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_009522

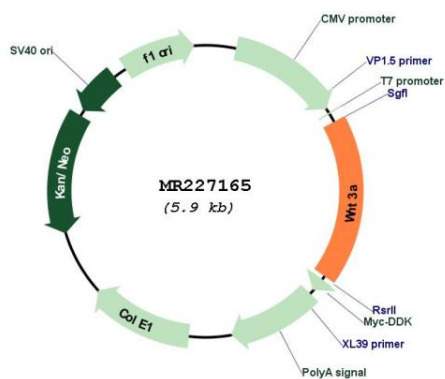
ORF Size: 1056 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_009522.2</u> , <u>NP_033548.1</u>
RefSeq Size:	2791 bp
RefSeq ORF:	1059 bp
Locus ID:	22416
UniProt ID:	<u>P27467</u>
Cytogenetics:	11 37.17 cM
MW:	39.7 kDa
Gene Summary:	Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt signaling pathway that results in activation of transcription factors of the TCF/LEF family (PubMed:26902720). Required for normal embryonic mesoderm development and formation of caudal somites (PubMed:8299937). Required for normal morphogenesis of the developing neural tube (PubMed:8299937). Mediates self-renewal of the stem cells at the bottom on intestinal crypts (in vitro) (PubMed:26902720). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227165