

Product datasheet for **MG222492**

Wnt3 (NM_009521) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt3 (NM_009521) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt3
Synonyms:	Int-4; Wnt-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222492 representing NM_009521 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCCACCTGCTCGGGCTGCTACTCGGCCTCCTGCTCAGTGGCACCAGGGTCTCGCTGGCTACC
CAATTTGGTGGTCCCTGGCCCTGGGCCAGCAGTACACATCTCTGGCTCCAGCCTCTGCTCTGCGGCTC
CATCCCAGGCCTGGTCCCAAGCAACTGCGCTTCTGCCGAATTACATCGAGATCATGCCAGCGTAGCA
GAAGGTGTGAAGCTGGGCATCCAGGAGTGCCAGCATCAGTTCGGGGCCCGGTGGAACGTACCACCA
TAGATGACAGCCTGGCCATCTTTGGCCCTGCTTGGACAAGCCACCCGTGAATCGCCTTCGTGCATGC
CATCGCCTCGGCTGGTGTGCGCTTCGCAGTCACACGCTCCTGCGCTGAGGGAACCTCCACCATCTGCGGC
TGTGACTCACATCATAAGGGGCCACCTGGAGAAGGCTGGAAGTGGGGCGGCTGCAGCGAGGACGCCGACT
TCGGGGTGTGGTGTCCCGGGAATTTGCGGATGCGCGGGAGAACAGGCCAGATGCCCGCTCAGCTATGAA
CAAGCACAACAATGAAGCAGGCCGAACGACCATCCTGGACCACATGCACCTAAAGTGAAATGCCACGGG
TTGTCCGGCAGCTGCGAGGTGAAGACCTGCTGGTGGGCCAGCCCGACTTCCGTGCCATTGGCGACTTCC
TCAAGGACAAGTACGACAGTGCCTCCGAGATGGTGGTGGAGAAACACCGTGAGTCCCGAGGCTGGGTGGA
GACCCTGCGGGCTAAGTACGCGCTTCAAGCCACCCACCGAGAGGGACCTGGTCTACTACGAGAACTCC
CCCAACTTTTGTGAGCCCAACCCAGAGACGGGCTCCTTTGGTACCAGGGACCGGACTTGAATGTCACCT
CCACGGCATCGATGGCTGCGATCTGCTGTGTGGCCGGGGCCACAACACGAGGACGGAGAAACGGAA
GGAGAAATGCCATTGCGTCTTCCACTGGTGTCTATGTCAGCTGCCAAGAGTGATTTCGCATCTACGAT
GTGCACACCTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222492 representing NM_009521
 Red=Cloning site Green=Tags(s)

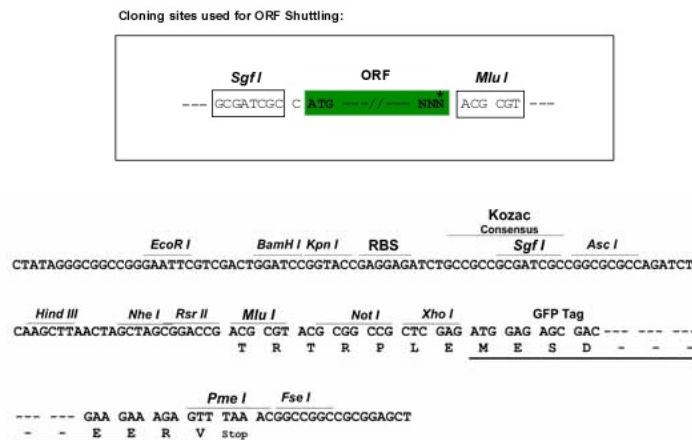
MEPHLLGLLLGLLLSGTRVLGYPIWWSLALGQQYTSLASQPLLCGSIPGLVPKQLRFCRNYIEIMPSVA
 EGVKLGIEQCQHQFRGRRWNCITIDDSLAIIFGPVLDKATRESAFVHAIASAGVAFVTRSCAEGTSTICG
 CDSHHKGGPPGEGWKWGGCEDADFGVLVSREFADARENRPDARSAMNKHNNNEAGRITILDHMHKCKCHG
 LSGSCEVKTCTWAQPDFRAIGDFLKDKYDASEMVVEKHRESRGWVETLRKAYALFKPPTERDLVYYENS
 PNFCEPNPETGSFGTRDRTCNVTSHGIDGCDLLCCGRGHNTRTEKRKEKCHCVFHWCCYVSCQECIRIYD
 VHTCK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2618_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009521

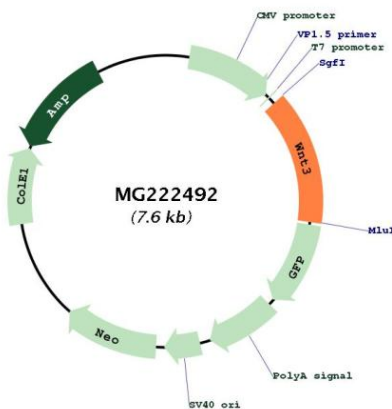
ORF Size: 1065 bp

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:	NM_009521.2 , NP_033547.1
RefSeq Size:	3115 bp
RefSeq ORF:	1068 bp
Locus ID:	22415
UniProt ID:	P17553
Cytogenetics:	11 67.5 cM
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 (By similarity). Required for normal gastrulation, formation of the primitive streak, and for the formation of the mesoderm during early embryogenesis (PubMed:10431240). Required for normal formation of the apical ectodermal ridge and for normal embryonic limb development (PubMed:12569130).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222492