

## Product datasheet for **MR222492**

### Wnt3 (NM\_009521) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Wnt3 (NM_009521) Mouse Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Wnt3  |
| Synonyms:                 | Int-4; Wnt-3  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR222492 representing NM_009521<br>Red=Cloning site Blue=ORF Green=Tags(s) |

CTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

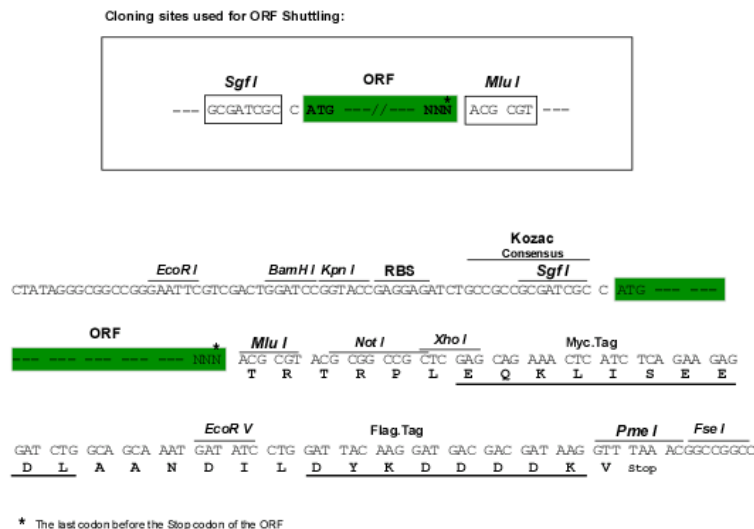
ATGGAGCCCCACCTGCTCGGGTCTACTCGGCCTCTGCTCAGTGGCACCAGGGTCTCGCTGGCTACC  
CAATTTGGTGGTCCCTGGCCCTGGGCCAGCAGTACACATCTCTGGCCTCCCAGCCTCTGCTCTGGGCTC  
CATCCCAGGCCTGGTCCCAAGCAACTGCGCTTCTGCCGAATTACATCGAGATCATGCCAGCGTAGCA  
GAAGGTGTGAAGCTGGGCATCCAGGAGTGCCAGCATCAGTTCCGGGGCCCGGGTGAAGTGTACCACCA  
TAGATGACAGCCTGGCCATCTTTGGGCTGTCTTGGACAAAGCCACCCGTGAATCGGCCTTCGTGCATGC  
CATCGCCTCGGCTGGTGTGCGCTTCGCAGTCACACGCTCCTGCGCTGAGGGAACCTCCACCATCTGCGGC  
TGTGACTCACATCATAAGGGGCCACCTGGAGAAGGCTGGAAGTGGGGCGGCTGCAGCGAGGACGCCGACT  
TCGGGGTGTGGTGTCCCGGAATTTGCGGATGCGCGGGAGAACAGGCCAGATGCCCGCTCAGCTATGAA  
CAAGCACAACAATGAAGCAGGCCGAACGACCATCTGGACCACATGCACCTAAAGTGAAATGCCACGGG  
TTGTCCGGCAGCTGCGAGGTGAAGACCTGCTGGTGGGCCAGCCGACTTCCGTGCCATTGGCGACTTCC  
TCAAGGACAAGTACGACAGTGCCTCCGAGATGGTGGTGGAGAAACACCGTGAGTCCCGAGGCTGGGTGGA  
GACCTTCGGGGCTAAGTACGCGCTCTTCAAGCCACCCAGGAGGGACCTGGTCTACTACGAGAACTCC  
CCCAACTTTTGTGAGCCCAACCCAGAGACGGGCTCCTTTGGTACCAGGGACCGGACTTGCAATGTCACCT  
CCCACGGCATCGATGGCTGCGATCTGCTGTGCTGTGGCCGGGGCCACAACACGAGGACGGAGAAACGGAA  
GGAGAAATGCCATTGCGTCTTCCACTGGTGTCTATGTCAGCTGCCAAGAGTGATTGCGATCTACGAT  
GTGCACACCTGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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**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](mailto: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.

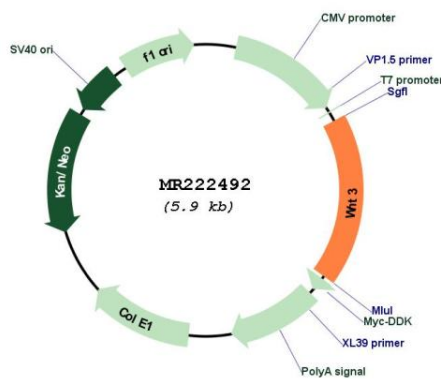
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

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.

|                      |  |
|----------------------|--|
| <b>Note:</b>         | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.   |
| <b>RefSeq:</b>       | <u>NM_009521.2, NP_033547.1</u>  |
| <b>RefSeq Size:</b>  | 3115 bp  |
| <b>RefSeq ORF:</b>   | 1068 bp  |
| <b>Locus ID:</b>     | 22415  |
| <b>UniProt ID:</b>   | <u>P17553</u>  |
| <b>Cytogenetics:</b> | 11 67.5 cM   |
| <b>MW:</b>           | 40.1 kDa   |
| <b>Gene Summary:</b> | 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 MR222492