

Product datasheet for **MG205702**

Wnt1 (BC005449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt1 (BC005449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt1
Synonyms:	Int-1; sw; swaying; Wnt-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205702 representing BC005449 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCTGGGCGCTGCTGCCAGCTGGGTTTCTACTACGTTGCTACTGGCACTGACCGCTCTGCCCG
CAGCCCTAGCTGCCAACAGTAGTGGCCGATGGTGGGCATCGTGAACATAGCCTCCTCCACGAACCTGTT
GACGGATTCCAAGAGCCTGCAGCTGGTGTCTGAGCCAGTCTGCAGCTGCTGAGCCGAAGCAGCGGCGA
CTGATCCGACAGAACCCGGGGATCCTGCACAGCGTGAGTGGAGGGCTCCAGAGCGCCGTGCGAGAGTGCA
AATGGCAATTCGAAACCGCCGCTGGAAGTCCCACTGCTCCGGGGCCACCTCTTCGGAAGATCGT
CAACCGAGGCTGCCGAGAAACAGCGTTCATCTTCGAATCACCTCCGCGGGGTACACATTCGCTGGCG
CGCTCCTGCTCCGAAGGCTCCATCGAGTCTGCACCTGCGACTACCGGGCGCGGCCCTGGGGGCCCCG
ACTGGCACTGGGGGGGCTGCAGTGACAACATCGATTTTGGTGCCTCTTTGGCCGAGAGTTTCGTGGACTC
CGGGGAGAAGGGGCGGGACCTACGCTTCTCATGAACCTTCAACAACGAGGCAGGGCGAACGACCGTG
TTCTCTGAGATGCGCCAAGAGTGCAATGCCACGGGATGTCCGGTCTGCACGGTGCACAGTGTGGA
TGCGGCTGCCACGCTGCGCGTGTGGGCGACGTGCTGCGCGACCGCTTCGACGGTGCCTCCCGCTCCT
TTACGGCAACAGAGGCAGCAACCGCGCTCGCGGGCGGAGCTGCTGCGCTGGAGCCGAAGACCCCGCG
CACAAGCCTCCCTCCCTCACGACCTCGTCTACTTCGAGAAATCGCCCACTTTCGACGTACAGTGGCC
GCCTGGGCACAGCTGGCACAGCTGGACGAGCTTGCAACAGCTCGTCTCCGCGCTGGACGGCTGTGAGCT
GCTGTGCTGTGGCCGAGGCCACCGCACGCGCACGAGCGCTCACGGAGCGCTGCAACTGCACCTTCCAC
TGGTGCTGCCACGTCAGCTGCCCAACTGCACGCACGCGCTTCTGCACGAGTGTCTA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205702 representing BC005449
 Red=Cloning site Green=Tags(s)

MGLWALLPSWVSTLLLLALTALPAALAANSSGRWWGIVNIASSTNLLTDSKSLQLVLEPSLQLLSRKQRR
 LIRQNPGILHSVSGGLQSAVRECKWQFRNRWNCPTAPGPHLFGKIVNRGCRETAFIFAITSAGVTHSVA
 RSCSEGSIESCTCDYRRRGPGGPDWHWGCSNDIDFGRLFGRFVDSGEKGRDLRFLMNLHNNEAGRRTTV
 FSEMRQECKCHGMSGSCTVRTCWMLRPTLRAVGDVLRDRFDGASRVLYGNRGSNRASRAELLRLEPEDPA
 HKPPSPHDLVYFEKSPNFCTYSGRLGTAGTAGRACNSSSPALDGCELLCCGRGHRTRTQRVTERCNCTFH
 WCCHVSCRNCTHTRVLEHCL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC005449

ORF Size: 1112 bp

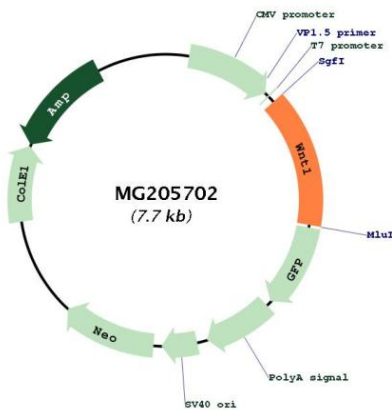
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:**
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:** [BC005449](#), [AAH05449](#)
- RefSeq Size:** 2463 bp
- RefSeq ORF:** 1112 bp
- Locus ID:** 22408
- Cytogenetics:** 15 54.65 cM
- Gene Summary:** Ligand for members of the frizzled family of seven transmembrane receptors. Acts in the canonical Wnt signaling pathway by promoting beta-catenin-dependent transcriptional activation (By similarity). In some developmental processes, is also a ligand for the coreceptor RYK, thus triggering Wnt signaling (PubMed:15454084, PubMed:16116452). Plays an essential role in the development of the embryonic brain and central nervous system (CNS) (PubMed:2202907, PubMed:16116452). Has a role in osteoblast function, bone development and bone homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205702