

Product datasheet for MR205702

Wnt1 (NM_021279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt1 (NM_021279) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wnt1
Synonyms:	Int-1; sw; swaying; Wnt-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205702 representing NM_021279 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCTGGGCGCTGCTGCCAGCTGGGTTTCTACTACGTTGCTACTGGCACTGACCGCTCTGCCCG
CAGCCCTAGCTGCCAACAGTAGTGGCCGATGGTGGGCATCGTGAACATAGCCTCCTCCAGAACCTGTT
GACGGATTCCAAGAGCCTGCAGCTGGTGTCTGAGCCAGTCTGCAGCTGCTGAGCCGCAAGCAGCGGCGA
CTGATCCGACAGAACCCGGGGATCCTGCACAGCGTGAGTGGAGGGCTCCAGAGCGCCGTGCGAGAGTGCA
AATGGCAATTCGAAACCGCCGCTGGAAGTCCCACTGCTCCGGGGCCCACTCTTCGGAAGATCGT
CAACCGAGGCTGCCGAGAAACAGCGTTCATCTTCGAATCACCTCCGCGGGGTACACATTCGGTGGCG
CGCTCCTGCTCCGAAGGCTCCATCGAGTCTGCACCTGCGACTACCGGGCGCGGCCCTGGGGGCCCG
ACTGGCACTGGGGGGGCTGCAGTGACAACATCGATTTTGGTGCCTCTTTGGCCGAGAGTTCGTGGACTC
CGGGGAGAAGGGGCGGGACCTACGCTTCTCATGAACCTTCAACAACGAGGCAGGGCGAACGACCGTG
TTCTCTGAGATGCGCCAAGAGTGCAATGCCACGGGATGTCCGGTCTGCACGGTGCACAGTGTGGGA
TGCGGCTGCCACGCTGCGCGTGTGGGCGACGTGCTGCGCGACCGCTTCGACGGTGCCTCCCGCTCCT
TTACGGCAACAGAGGCAGCAACCGCGCTCGCGGGCGGAGCTGCTGCGCTGGAGCCGAAGACCCCGCG
CACAAGCCTCCCTCCCTCACGACCTCGTCTACTTCGAGAAATCGCCAACTTCTGCAGTACAGTGGCC
GCCTGGGCACAGCTGGCACAGCTGGACGAGCTTGCAACAGCTCGTCTCCGCGCTGGACGGCTGTGAGCT
GCTGTGTGTGGCCGAGGCCACCGCACGCGCACGAGCGCTCACGGAGCGCTGCAACTGCACCTTCCAC
TGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACGCGGTTCTGCACGAGTGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205702 representing NM_021279
Red=Cloning site Green=Tags(s)

MGLWALLPSWVSTLLLLALTALPAALAANSSGRWWGIVNIASSTNLLTDSKSLQLVLEPSLQLLSRKQRR
 LIRQNPGLHSVSGGLQSAVRECKWQFRNRWNCPTAPGPHLFGKIVNRGCRETAFIFAITSAGVTHSVA
 RSCSEGSIESCTCDYRRRGPGGPDWHWGCSNDIDFGRLFREFVDSGEKGRDLRFLMNLHNNEAGRTTV
 FSEMRQECKCHGMSGSCTVRTCWMRLPTLRAVGDVLRDRFDGASRVLYGNRGSNRASRAELLRLEPEDPA
 HKPPSPHDLVYFEKSPNFCTYSGRLGTAGTAGRACNSSSPALDGCELLCCGRGHRTRTQRVTERCNCTFH
 WCCHVSCRNCTHTRVLHECL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021279

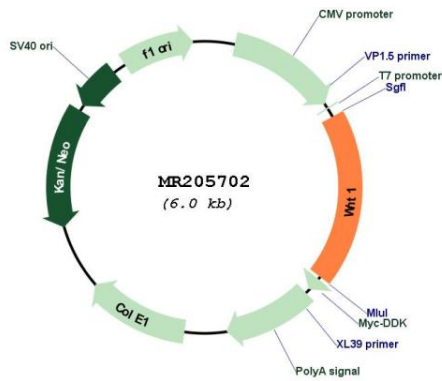
ORF Size: 1110 bp

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_021279.3
RefSeq Size:	2371 bp
RefSeq ORF:	1113 bp
Locus ID:	22408
UniProt ID:	P04426
Cytogenetics:	15 54.65 cM
MW:	41.5 kDa
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 MR205702