

Product datasheet for RC210394

WNT1 (NM_005430) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT1 (NM_005430) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT1
Synonyms:	BMND16; INT1; OI15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210394 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCTGGGCGCTGTTGCCTGGCTGGGTTTCTGCTACGCTGCTGCTGGCGCTGGCCGCTCTGCCCG
CAGCCCTGGCTGCCAACAGCAGTGGCCGATGGTGGGTATTGTGAACGTAGCCTCCTCCACGAACCTGCT
TACAGACTCCAAGAGTCTGCAACTGGTACTCGAGCCAGTCTGCAGCTGTTGAGCCGAAACAGCGGCGT
CTGATACGCCAAAATCCGGGGATCCTGCACAGCGTGAGTGGGGGGCTGCAGAGTCCGCTGCGCGAGTGCA
AGTGGCAGTTCGGGAATCGCCGCTGGAAGTGTCCCACTGCTCCAGGGCCCACTCTTCGGAAGATCGT
CAACCGAGGCTGTCGAGAAACGGCGTTTATCTTCGCTATCACCTCCGCGGGGTACCCATTTCGGTGGCG
CGCTCCTGCTCAGAAGGTTCCATCGAATCCTGCACGTGTGACTACCGGGCGCGGCCCGGGGGCCCCG
ACTGGCACTGGGGGGCTGCAGCGACAACATTGACTTCGGCCGCCTCTTCGGCCGGGAGTTCGTGGACTC
CGGGGAGAAGGGGCGGGACCTGCGCTTCTCATGAACCTTCAACAACGAGGCAGGCCGTACGACCGTA
TTCTCCGAGATGCGCCAGGAGTGCAAGTCCACGGGATGTCCGGCTATGCACGGTGCACAGTGTGGA
TGCGGCTGCCACGCTGCGCGCGTGGGCGATGTGCTGCGCGACCGCTTCGACGGCGCCTCGCGCTCCT
GTACGGCAACCGCGCAGCAACCGCGCTTCGCGGGCGGAGCTGCTGCGCCTGGAGCCGGAAGACCCGGCC
CACAAACCGCCCTCCCCCAGCACTCGTCTACTTCGAGAAATCGCCAACTTTCGACGTACAGCGGAC
GCCTGGGCACAGCAGGCACGGCAGGGCGCGCTGTAACAGCTCGTCCCGCGCTGGACGGCTGCGAGCT
GCTCTGCTGCGGCAAGGGCCACCGCACGCGCACGAGCGCTCACCGAGCGCTGCAACTGCACCTTCCAC
TGGTGCTGCCACGTGAGTCCGCAACTGCACGCACGCGCTACTGCACGAGTGTCTG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC210394 protein sequence
Red=Cloning site Green=Tags(s)

MGLWALLPGWVSATLLLLALAALPAALAANSSGRWWGIVNVASSTNLLTDSKSLQLVLEPSLQLLSRKQRR
 LIRQNPGLHSVSGGLQSAVRECKWQFRNRWNCPTAPGPHLFGKIVNRGCRETAFIFAITSAGVTHSVA
 RSCSEGSIESCTCDYRRRGPGGPDWHWGCSNDIDFGRFLGREFVDSGEKGRDLRFLMNLHNNEAGRITTV
 FSEMRQECKCHGMSGSCTVRTCWMRLPTLRAVGDVLRDRFDGASRVLYGNRGSNRASRAELLRLPEPDA
 HKPPSPHDLVYFEKSPNFCTYSGRLGTAGTAGRACNSSSPALDGCELLCCGRGHRTRTQRVTERCNCTFH
 WCCHVSCRNCTHTRVLHECL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

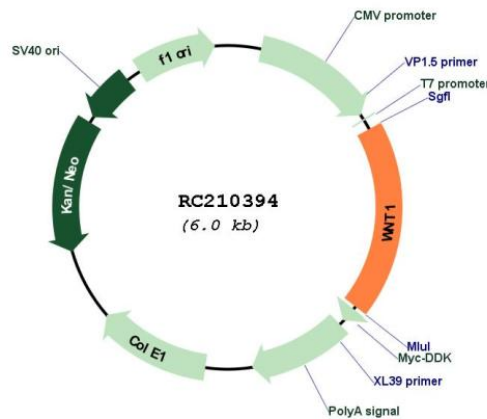
Chromatograms: https://cdn.origene.com/chromatograms/mk6006_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



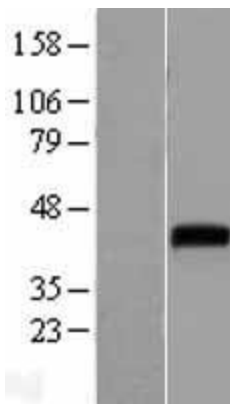
Plasmid Map:



ACCN:	NM_005430
ORF Size:	1110 bp
OTI Disclaimer:	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_005430.4
RefSeq Size:	2284 bp
RefSeq ORF:	1113 bp
Locus ID:	7471
UniProt ID:	P04628
Cytogenetics:	12q13.12
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
MW:	41 kDa

Gene Summary:

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It is very conserved in evolution, and the protein encoded by this gene is known to be 98% identical to the mouse Wnt1 protein at the amino acid level. The studies in mouse indicate that the Wnt1 protein functions in the induction of the mesencephalon and cerebellum. This gene was originally considered as a candidate gene for Joubert syndrome, an autosomal recessive disorder with cerebellar hypoplasia as a leading feature. However, further studies suggested that the gene mutations might not have a significant role in Joubert syndrome. This gene is clustered with another family member, WNT10B, in the chromosome 12q13 region. [provided by RefSeq, Jul 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY401668]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210394 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).