

Product datasheet for **RG222372**

WNT16 (NM_016087) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT16 (NM_016087) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNT16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222372 representing NM_016087 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCACCCTGCCTCAGGGAGACCCTCTCACAGGGGCTTCTCAAAGACCTCCCTATGGTGGT
TGGGCATTGCCTCCTTCGGGGTTCAGAGAAGCTGGGCTGCGCCAATTTGCCGCTGAACAGCCGCCAGAA
GGAGCTGTGCAAGAGGAAACCGTACCTGCTGCCGAGCATCCGAGAGGGCGCCCGGCTGGGCATTGAGGAG
TGCGGGAGCCAGTTCAGACACGAGAGATGGAAGTGCATGATCACCGCCGCCACTACCGCCCCGATGG
GCGCCAGCCCCCTTTTGGCTACGAGCTGAGCAGCGGCCACCAAAGAGACAGCATTTATTTATGCTGTGAT
GGCTGCAGGCCTGGTGCATTCTGTGACCAGGTCATGCAGTGCAGGCAACATGACAGAGTGTTCCTGTGAC
ACCACCTTGCAAGACGGCGGCTCAGCAAGTGAAGGCTGGCACTGGGGGGGCTGCTCCGATGATGTCCAGT
ATGGCATGTGGTTCAGCAGAAAGTTCCTAGATTTCCCATCGGAAACACCACGGGCAAAGAAAACAAAGT
ACTATTAGCAATGAACCTACATAACAATGAAGCTGGAAGGCAGGCTGTCGCAAGTTGATGTGAGTACAG
TGCCGCTGCCACGGAGTTCCGGCTCCTGTGCTGTGAAAACATGCTGGAAAACCATGTCTCTTTTGAAA
AGATTGGCCATTTGTTGAAGGATAAATATGAAAACAGTATCCAGATATCAGACAAAACAAAGAGGAAAAAT
GCGCAGGAGAGAAAAAGATCAGAGGAAAAATACCAATCCATAAGGATGATCTGCTCTATGTTAATAAGTCT
CCCACTACTGTGTAGAAGATAAGAAATGGGAATCCCAGGGACACAAGGCAGAGAAATGCAACCGTACAT
CAGAGGGTGCAGATGGCTGCAACCTCCTCTGCTGTGGCCGAGGTTACAACACCCATGTGGTCAAGCACGT
GGAGAGGTGTGAGTGAAGTTCATCTGGTGTGCTATGTCCGTTGCAGGAGGTGTGAAAGCATGACTGAT
GTCCACACTTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222372 representing NM_016087
Red=Cloning site Green=Tags(s)

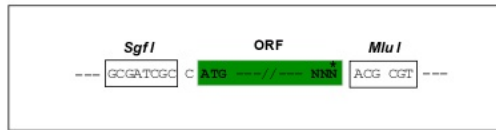
MQLTTCLRETLFTGASQKTSLWWLGIASFVPEKLGCANLPLNSRQKELCKRKPYPYLLPSIREGARLGIQE
 CGSQFRHERWNCMITAAATTAPMGASPLFGYELSSGKETAFIYAVMAAGLVHVSVTRSCSAGNMTECSCD
 TTLQNGGSASEGWHWGGCSDDVQYGMWF SRKFLDFPIGNTTGKENKVLLAMNLHNNEAGRQAVAKLMSVD
 CRCHGVSGCAVKTCWKTMSSFEKIGHLLKDKYENSIQISDKTKRKMRRREKDQRKIPIHKDDL LYNK
 PNYCVEDKKLGIPGTQGRECNRTSEGADGCNLLCCGRGYNTHVVRHVERCECKFIWCCYVRCRRCESMTD
 VHTCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_016087

ORF Size: 1065 bp

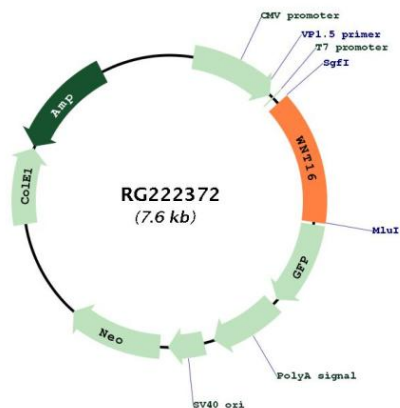
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_016087.2 , NP_057171.2
RefSeq Size:	2894 bp
RefSeq ORF:	1068 bp
Locus ID:	51384
UniProt ID:	Q9UBV4
Cytogenetics:	7q31.31
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	<p>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 contains two transcript variants diverging at the 5' termini. These two variants are proposed to be the products of separate promoters and not to be splice variants from a single promoter. They are differentially expressed in normal tissues, one of which (variant 2) is expressed at significant levels only in the pancreas, whereas another one (variant 1) is expressed more ubiquitously with highest levels in adult kidney, placenta, brain, heart, and spleen. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG222372