

Product datasheet for **RG210089**

WNT2 (NM_003391) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WNT2 (NM_003391) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: WNT2
Synonyms: INT1L1; IRP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210089 representing NM_003391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACGCCCTCTCGGTGGAATCTGGCTCTGGCTCCCTCTGCTCTTGACCTGGCTACCCCCGAGGTCA
ACTCTTCATGGTGGTACATGAGAGCTACAGGTGGCTCCTCCAGGGTGATGTGCGATAATGTGCCAGGCCT
GGTGAGCAGCCAGCGGCAGCTGTGTCACCGACATCCAGATGTGATGCGTGCCATTAGCCAGGGCGTGGCC
GAGTGGACAGCAGAATGCCAGCACCAGTCCGCCAGCACCCTGGAATTGCAACACCCTGGACAGGGATC
ACAGCCTTTTTGGCAGGGTCTACTCCGAAGTAGTCGGGAATCTGCCTTTGTTTATGCCATCTCCTCAGC
TGGAGTTGTATTTGCCATCACCAGGGCCTGTAGCCAAGGAGAAGTAAAACTCTGTTCCTGTGATCCAAAG
AAGATGGGAAGCGCCAAGGACAGCAAAGGCATTTTTGATTGGGGTGGCTGCAAGTATAACATTGACTATG
GGATCAAATTTGCCCGCATTTGTGGATGCAAAGGAAAGGAAAGGAAAGGATGCCAGAGCCCTGATGAA
TCTTCACAACAACAGAGCTGGCAGGAAGGCTGTAAGCGGTTCTTGAAACAAGAGTGCAAGTGCCACGGG
GTGAGCGGCTCATGACTCTCAGGACATGCTGGCTGGCCATGGCCGACTTCAGGAAAACGGGCGATTATC
TCTGGAGGAAGTACAATGGGGCCATCCAGGTGGTCAAGACCAGGATGGCACAGGTTTACTGTGGCTAA
CGAGAGGTTTAAGAAGCCAACGAAAAATGACCTCGTGTATTTGAGAATTCTCCAGACTACTGTATCAGG
GACCGAGAGGCAGGCTCCCTGGGTACAGCAGGCCGTGTGTGCAACCTGACTTCCCGGGCATGGACAGCT
GTGAAGTCATGTGCTGTGGGAGAGGCTACGACACCTCCCATGTACCCCGGATGACCAAGTGTGGGTGTA
GTTCCACTGGTGTGCGCCGTGCGCTGTGAGGACTGCCTGGAAGCTCTGGATGTGCACACATGCAAGGCC
CCCAAGAAGCCTGACTGGACAACCCTACA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210089 representing NM_003391
 Red=Cloning site Green=Tags(s)

MNAPLGGIWLWLP LLLTWLTPEVNSSWWMYMRATGGSSRVMCDNVPGLVSSQRQLCHRHPDVMRAISQGVA
 EWTAEQCQHQRWNCNTLDRDHSLFGRVLLRSSRESAFVYAISSAGVVFATRACSSQGEVKSCSCDPK
 KMGSAKDSKGIQFDWGGCSDNIDYGIKFARAFVDAKERKGDARALMNLHNNRAGRKAVKRFKQECKCHG
 VSGSCTLRTCWLAMADFRKTGDYLRWRYNGAIQVVMNQDGTGFTVANERFKKPTKNDLVYFENSPDYCIR
 DREAGSLGTAGRVCNLT SRGMDSCEVMCCGRGYDTSHVTRMTKCGCKFWCCAVRCQDCLEALDVHTCKA
 PKNADWTTAT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003391

ORF Size: 1080 bp

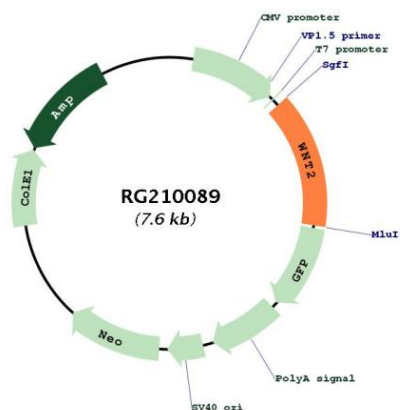
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003391.3
RefSeq Size:	2301 bp
RefSeq ORF:	1083 bp
Locus ID:	7472
UniProt ID:	P09544
Cytogenetics:	7q31.2
Domains:	wnt
Protein Families:	Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	This gene is a member of the WNT gene family. 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. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210089