

Product datasheet for **RG202417**

WNT7A (NM_004625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT7A (NM_004625) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNT7A
Synonyms:	Wnt-7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202417 representing NM_004625 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCGAAAGCGCGGCTGCCTGGCCACCTCTTTCTCAGCCTGGGCATGGTCTACCTCCGGATCG
GTGGCTTCTCCTCAGTGGTAGCTCTGGGCGCAAGCATCATCTGTAACAAGATCCCAGGCCTGGCTCCAG
ACAGCGGGCGATCTGCCAGAGCCGGCCGACGCCATCATCGTCATAGGAGAAGGCTCACAATGGGCCTG
GACGAGTGTAGTTTCCGCAATGGCCGCTGGAAGTCTGCACTGGGAGAGCGCACCGTCTTCG
GGAAGGAGCTCAAAGTGGGGAGCCGGGAGGCTGCGTTCACCTACGCCATCATTGCCGCCGGCGTGGCCCA
CGCCATCACAGCTGCCTGTACCCAGGGCAACCTGAGCGACTGTGGCTGCGACAAAGAGAAGCAAGGCCAG
TACCACCGGGACGAGGGCTGGAAGTGGGGTGGTCTCTGCCGACATCCGCTACGGCATCGGCTTCGCCA
AGGTCTTTGTGGATGCCCGGGAGATCAAGCAGAATGCCCGGACTCTCATGAACTGCACAACAACGAGGC
AGGCCGAAAGATCCTGGAGGAGAATGAAGCTGGAATGTAAGTGCCACGGCGTGTGAGGCTCGTGACCC
ACCAAGACGTGCTGGACCACACTGCCACAGTTTCGGGAGCTGGGCTACGTGCTCAAGGACAAGTACAACG
AGGCCGTTACGTGGAGCCTGTGCGTGCCAGCCGCAACAAGCGGCCACCTTCTGAAGTCAAGAAGCC
ACTGTCGTACCGCAAGCCATGGACACGGACCTGGTGTACATCGAGAAGTCGCCCACTACTGCGAGGAG
GACCCGTTGACCGCAGTGTGGCACCCAGGGCCGCGCTGCAACAAGACGGCTCCCGAGCCAGCGCT
GTGACCTCATGTGCTGTGGCGTGGCTACAACACCCACAGTACGCCCGGTGTGGCAGTGAACACTGTAA
GTTCCACTGCTGCTATGTCAAGTGCAACACGTGCAGCGAGCGCACGGAGATGTACACGTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202417 representing NM_004625
 Red=Cloning site Green=Tags(s)

MNRKARRCLGHLFLSLGMVYLRIIGFFSSVVALGASIIICNKIPGLAPRQRAICQSRPDAIIVIGEGSQMGL
 DECQFQFRNGRWNCALGERTVFGKELKVGSR EAAFTYAI AAGVAHAITAACTQGNLSDCGDKEKQGQ
 YHRDEGWKWGGCSADIRYIGIFAKVFDAREIKQNARTLMNLHNEAGRKILEENMKLECKCHGVSGSCT
 TKTCWTTLPQFRELGYVLKDKYNEAVHVEPVRASRNKRPTFLKIKKPLSYRKPMDTDLVYIEKSPNYCEE
 DPVTGSVGTQGRACNKTA PQASGCDLMCCGRGYNTHQYARVWQCNCCKFWCCYVKCNTCSERTEMYTCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004625

ORF Size: 1047 bp

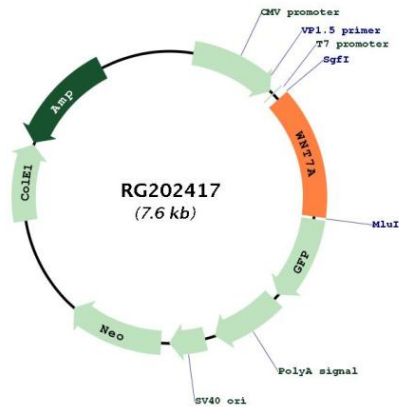
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_004625.4
RefSeq Size:	1732 bp
RefSeq ORF:	1050 bp
Locus ID:	7476
UniProt ID:	O00755
Cytogenetics:	3p25.1
Domains:	wnt
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	<p>This gene is a member of the WNT gene family, which consists of structurally related genes that 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 involved in the development of the anterior-posterior axis in the female reproductive tract, and also plays a critical role in uterine smooth muscle patterning and maintenance of adult uterine function. Mutations in this gene are associated with Fuhrmann and Al-Awadi/Raas-Rothschild/Schinzel phocomelia syndromes. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG202417