

Product datasheet for **MG205285**

Wnt7a (NM_009527) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt7a (NM_009527) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt7a
Synonyms:	A1849442; px; tw; Wnt-7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205285 representing NM_009527 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGGAAAGCGCGGCTGCCTGGGCCACCTCTTTCTCAGCCTGGGCATAGTCTACCTCCGGATCG
GTGGCTTCTTTCGGTGGTAGCTCTGGGTGCGAGCATCATCTGTAACAAGATCCCAGGCCTGGCTCCAG
ACAGCGGGCAATCTGCCAGAGCCGGCCGACGCCATCATCGTCATAGGAGAAGGCTCCAAATGGGCCTG
GACGAGTGTGAGTTTCAGTTCCGAAATGGCCGTTGGAAGTCTCAGCGCTGGGAGAGCGTACTGTCTTCG
GGAAGGAGCTCAAAGTGGGGAGTCGGGAGGCTGCCTTACCTATGCGATTATCGCTGCGGGCGTGGCCCA
TGCCATCACTGCTGCCTGCACCCAGGGCAACCTGAGCGACTGTGGCTGCGACAAGGAGAAGCAAGGCCAG
TACCACCGGGACGAGGGCTGGAAGTGGGGTGGCTGCTCTGCCGACATCCGCTACGGCATCGGCTTCGCCA
AGGTCTTCGTGGATGCCCGGGAGATCAAGCAGAAATGCCCGGACGCTCATGAACTTACACAATAACGAGGC
GGGTCCGAAGATCCTGGAGGAGAACATGAAGCTGGAGTGTAAAGTGCCATGGTGTGTGAGGCTCCTGTACC
ACTAAGACGTGCTGGACCACACTGCCACAGTCCGAGAGCTAGGCTACGTGCTCAAGGACAAATACAACG
AGGCCGTCCACGTGGAGCCTGTGCGTCCAGTCCGAAACAAGCGGCCACCTTTCTGAAGATCAAGAAGCC
CCTGTCTACCGAAGCCATGGACACTGACCTGGTGTATATCGAGAAGTCAACCAATTACTGTGAAGAG
GACCCAGTGACAGGCAGCGTGGTACCCAGGGCCGAGCCTGCAATAAGACAGCCCTCAGGCCAGTGGCT
GTGACCTCATGTGCTGTGGCCGTGGCTACAACACACACCAAGTACGCCCGGGTGTGGCAGTGAACACTGCAA
ATTCCACTGCTGCTACGTCAAGTGTAAACAGTGCAGCGAGCCACGGAGATGTATACGTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205285 representing NM_009527
Red=Cloning site Green=Tags(s)

MTRKARRCLGHLFLSLGIVYLRIGGFSSVVALGASIIICNKIPGLAPRQRAICQSRPDIIIVIGEGSQMGL
 DECQFQFRNGRWNCALGERTVFGKELKVGSRFAAFTYAI AAGVAHAITA AACTQGNLSDCGDKEKQGQ
 YHRDEGWKGGCSADIRYIGIFAKVFDAREIKQNARTLMNLHNNEAGRKILEENMKLECKCHGVSGSCT
 TKTCWTTLPQFRELGYVLKDKYNEAVHVEPVVRASRNKRPTFLKIKKPLSYRKPMDDLVIIEKSPNYCEE
 DPVTGSGVTQGRACNKTA PQASGCDLMCCGRGYNTHQYARVWQCNCCKFWCCYVKCNTCSERTEMYTCK

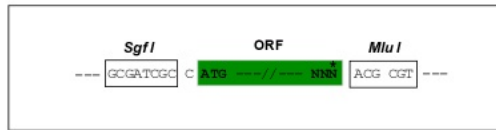
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3032_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_009527

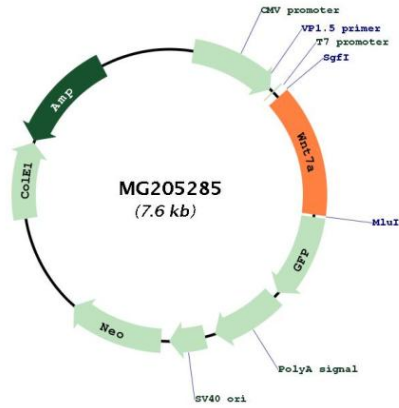
ORF Size: 1047 bp

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_009527.4
RefSeq Size:	3176 bp
RefSeq ORF:	1050 bp
Locus ID:	22421
UniProt ID:	P24383
Cytogenetics:	6 40.45 cM
Gene Summary:	Ligand for members of the frizzled family of seven transmembrane receptors that functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:18230341, PubMed:20530549, PubMed:23629626). Plays an important role in embryonic development, including dorsal versus ventral patterning during limb development, skeleton development and urogenital tract development (PubMed:7885472, PubMed:9769174, PubMed:9790192). Required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (PubMed:28803732). Required for normal, sexually dimorphic development of the Mullerian ducts, and for normal fertility in both sexes (PubMed:9790192). Required for normal neural stem cell proliferation in the hippocampus dentate gyrus (PubMed:23629626). Required for normal progress through the cell cycle in neural progenitor cells, for self-renewal of neural stem cells, and for normal neuronal differentiation and maturation (PubMed:23629626). Promotes formation of synapses via its interaction with FZD5 (PubMed:20530549). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205285