

Product datasheet for **MG205939**

Wnt5a (NM_009524) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt5a (NM_009524) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt5a
Synonyms:	8030457G12Rik; Wnt-5a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205939 representing NM_009524 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGCCATTGGAATATTAAGCCCAGGAGTGGCTTTGGGGACCGCTGGAGGTGCCATGTCTTCCA
AGTTCTTCTTAATGGCTTTGGCCACGTTTTTCTCCTTCGCCAGGTTGTTATAGAAGCTAATTTCTGGTG
GTCTCTAGGTATGAATAACCCTGTTTCAGATGTCAGAAGTATATATCATAGGTGCACAGCCTCTCTGCAGC
CAACTGGCAGGACTTTCTCAAGGACAGAAGAACTCTGCCACTTGTATCAGGACCACATGCAGTACATTG
GAGAAGGTGCGAAGACAGGCATCAAGGAATGCCAGTACCAGTTCGGGCATCGGAGATGGAAGTGCAGCAC
AGTGGACAATACTTCTGTCTTTGGCAGGGTGATGCAAATAGGCAGCCGAGAGACGGCCTTACGTACGCG
GTGAGCGCAGCTGGGGTGGTGAACGCCATGAGCCGAGCATGCCGGAGGGCGAGCTGTCTACCTGTGGCT
GCAGCCGCGCTGCGCGCCCAAGGACCTGCCTCGGACTGGTGTGGGGCGGCTGCGGAGACAACATCGA
CTATGGCTACCGCTTCGCCAAGGAGTTCGTGGACGCTAGAGAAAGGGAACGAATCCACGCTAAGGGTTCC
TATGAGAGCGCACGCATCCTCATGAACTTACACAACAATGAAGCAGGCCGTAGGACAGTATAACAACCTGG
CAGATGTAGCCTGTAAGTGTGATGGAGTGTCTGGCTCCTGTAGCCTCAAGACGTGCTGGCTGCAGCTGGC
GGACTTCCGGAAGGTGGCGATGCCCTCAAGGAGAAGTATGATAGCGCGGCGCCATGAGGCTCAACAGC
CGGGCAAGCTGGTGCAGGTCAACAGCCGCTTCAACTCCCCACCACGCAGGACCTGGTCTACATCGAC
CCAGTCCGACTACTGTGTGCGCAACGAGAGACTGGCTCGCTGGGCACGCAGGGACGCCTGTGCAACAA
GACCTCAGAGGGGATGGACGGCTGCGAGCTCATGTGCTGTGGCGTGGCTATGACCAGTTTAAAGACAGTG
CAGACCGAAGCTGTCATTGCAAGTTTCACTGGTGTGCTATGTCAAATGCAAGAAGTGCACGGAGATTG
TGGATCAGTTCGTGTGCAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205939 representing NM_009524
 Red=Cloning site Green=Tags(s)

MKKPIGILSPGVALGTAGGAMSSKFFLMALATFFSFAQVVEANSWWSLGMNPNVQMSEVYIIGAQLPCS
 QLAGLSQGGKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYA
 VSAAGVNVNMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS
 YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNS
 RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRCLKNTSEGMDGCCELCCGGRGYDQFKTY
 QTERCHCKFHWCYVCKKCTEIVDQFVCK

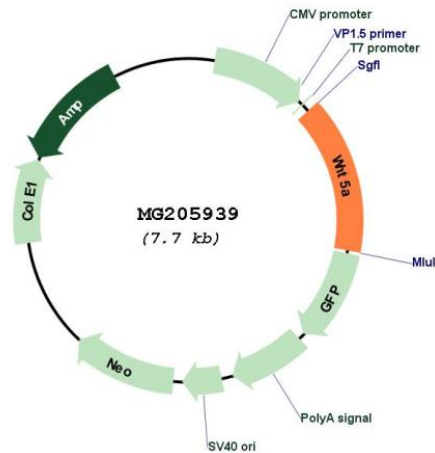
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009524

ORF Size:	1140 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_009524.4
RefSeq Size:	4273 bp
RefSeq ORF:	1143 bp
Locus ID:	22418
UniProt ID:	P22725
Cytogenetics:	14 16.8 cM
Gene Summary:	Ligand for members of the frizzled family of seven transmembrane receptors (PubMed:17117926). Can activate or inhibit canonical Wnt signaling, depending on receptor context (PubMed:16602827). In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta-catenin-induced reporter gene expression (PubMed:16602827). Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration (PubMed:17117926). Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor. Mediates motility of melanoma cells (By similarity). Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle (PubMed:10021340). Inhibits type II collagen expression in chondrocytes (By similarity).[UniProtKB/Swiss-Prot Function]