

## Product datasheet for MR229485

### Wnt5a (NM\_001256224) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt5a (NM_001256224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wnt5a
Synonyms:	8030457G12Rik; Wnt-5a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229485 representing NM_001256224 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTTCCAAGTTCTTCTAATGGCTTTGGCCACGTTTTTCTCCTTCGCCAGGTTGTTATAGAAGCTA  
ATCTTTGGTGGTCTCTAGGTATGAATAACCTGTTTCAGATGTCAGAAGTATATATCATAGGTGCACAGCC  
TCTCTGCAGCCAACTGGCAGGACTTTCTCAAGGACAGAAGAACTCTGCCACTTGTATCAGGACCACATG  
CAGTACATTGGAGAAGGTGCGAAGACAGGCATCAAGGAATGCCAGTACCAGTCCGGCATCGGAGATGGA  
ACTGCAGCACAGTGGACAATACTTCTGTCTTTGGCAGGGTGTATGCAAATAGGCAGCCGAGAGACGGCCTT  
CACGTACGCGGTGAGCGCAGCTGGGGTGGTGAACGCCATGAGCCGAGCATGCCGGAGGGCGAGCTGTCT  
ACCTGTGGCTGCAGCCGCTGCGCGCCCAAGGACCTGCCTCGGGACTGGTTGTGGGGCGGCTGCGGAG  
ACAACATCGACTATGGCTACCGCTTCGCCAAGGAGTTCGTGGACGCTAGAGAAAGGGAACGAATCCACGC  
TAAGGGTTCCTATGAGAGCGCACGCATCCTCATGAACCTACACAACAATGAAGCAGGCCGTAGGACAGTA  
TACAACCTGGCAGATGTAGCCTGTAAGTGTATGGAGTGTCTGGCTCCTGTAGCCTCAAGACGTGCTGGC  
TGCAGCTGGCGGACTTCCGGAAGGTGGGGATGCCCTCAAGGAGAAGTATGATAGCGCGGGCCATGAG  
GCTCAACAGCCGGGCAAGCTGGTGCAGGTCAACAGCCGCTTCAACTCCCGACCACGCAGGACCTGGTC  
TACATCGACCCAGTCCGGACTACTGTGTGCGCAACGAGAGCACTGGCTCGCTGGGCACGCAGGGACGCC  
TGTGCAACAAGACCTCAGAGGGGATGGACGGCTGCGAGCTCATGTGCTGTGGCGTGGCTATGACCAGTT  
TAAGACAGTGCAGACCGAACGCTGTATTGCAAGTTTCACTGGTGTGCTATGTCAAATGCAAGAAGTGC  
ACGGAGATTGGATCAGTTCGTGTGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229485 representing NM\_001256224  
 Red=Cloning site Green=Tags(s)

MSSKFFLMALATFFSFAQVVIEANSWWSLGMNPNVQMSEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHM  
 QYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVNVNMSRACREGELS  
 TCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNNEAGRRTV  
 YNLADVACKCHGVSGSCLKTCWLQLADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLV  
 YIDPSPDYCVRNESTGSLGTQGRLLCNKTSSEMDGCELMCCGRGYDQFKTVQTERCHCKFHWCYVKCKKC  
 TEIVDQFVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

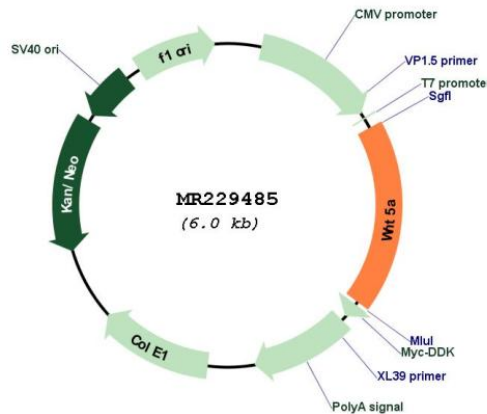
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001256224

<b>ORF Size:</b>	1080 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256224.2</a>
<b>RefSeq Size:</b>	3731 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	22418
<b>UniProt ID:</b>	<a href="#">P22725</a>
<b>Cytogenetics:</b>	14 16.8 cM
<b>MW:</b>	40.9 kDa
<b>Gene Summary:</b>	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]