

## Product datasheet for MR205513

### Wnt2 (NM\_023653) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt2 (NM_023653) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wnt2
Synonyms:	2610510E18Rik; Int111; Irp; Mirp; Wnt-2; Wnt2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205513 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACGTCCCTCTCGGTGGAATCTGGCTCTGGCTCCCTCTGCTCTTGACCTGGCTCACCCCTGAGGTCA  
GCTCTTCATGGTGGTACATGAGAGCTACAGGTGGCTCCTCCAGGGTGATGTGTGACAATGTGCCAGGCCCT  
GGTGAGCCGGCAGCGTCAGCTGTGCCACCGACACCCAGATGTGATGCGTGCCATTGGCCTGGGTGTGGCT  
GAGTGGACTGCAGAGTGCCAACACCAGTCCGCCAGCATCGTGGAAGTCAACACCCTGGACAGAGATC  
ACAGCCTCTTTGGCCGGTCTCCTCCGAAGTAGTCGAGAATCGGCCTTTGTTTACGCCATCTCTTCAGC  
TGGCGTTGTATTTGCCATCACCAGGGCCTGTAGCCAAGGAGAATTAAGTCTGCTCCTGTGATCCAAAG  
AAGAAAGGAAGTGCCAAGGACAGCAAAGGCACCTTCGACTGGGGTGGCTGCAAGTGAATATTGACTACG  
GGATCAAGTTTGGCCGTGCCTTTGTAGATGCCAAGGAGAGGAAAGGCAAGGATGCCAGAGCCCTGATGAA  
CCTTCACAACAACAGAGCTGGAAGGAAGGCTGTAAAGCGCTTCTTGAAACAAGAAATGCAAGTGTCATGGT  
GTGAGTGGCTCCTGTACTCTGAGGACATGCTGGCTGGCCATGGCTGACTTCAGGAAAACAGGCGACTATC  
TCTGGAGGAAGTACAATGGGGCCATCCAGGTAGTCATGAACCAGGATGGCACTGGCTTCACTGTAGCCAA  
TAAGAGGTTTAAAGCAACGAAAAATGACCTCGTGTATTTGAGAATCTCCAGACTACTGTATCAGG  
GACCGAGAGGCAGGCTCCCTGGGTACAGCGGGCCGTGTGTGCAACTTGACTTCCCGAGGCATGGACAGT  
CGGAAAGTTATGTGTTGTGGGAGAGGCTATGACACATCCCACGTACCCGGATGACCAAGTGTGAGTGTA  
ATTCCACTGGTGTGTGCCGTGCGCTGTGAGGACTGCCTGGAGGCCCTGGACGTGCACACATGCAAGGCC  
CCCAAGAGTGCCGACTGGGCGACGCTACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205513 protein sequence  
 Red=Cloning site Green=Tags(s)

MNVPLGGIWLWLP LLLTWLTPEVSSSWWYMRATGGSSRVMCDNVPGLVSRQRQLCHRHPDVMRAIGLVAEWTAECQHQRQHRWNCNTLDRDHSLFGRVLLRSSRESAFVYAISSAGVVFATRACSQGELKSCSDPKKKGSAKDSKGTDFDWGCCSDNIDYGIKFARAFVDAKERKGDARALMNLHNNRAGRKAVKRFLKQECKCHGVSGSCTLRTCWLAMADFRKTGDYLRKYNGAIIQVVMNQDGTGFTVANKRFKKPTKNDLVYFENSPDYCIRDREAGSLGTAGRVCNLT SRGMDSCEVMCCGRGYDTSHVTRMTKCECKFWCCA AVRCDCLEALDVHTCKAPKSADWATPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023653

**ORF Size:** 1083 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:**

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\\_023653.1](#), [NM\\_023653.2](#), [NM\\_023653.3](#), [NM\\_023653.4](#), [NM\\_023653.5](#), [NP\\_076142.2](#)

**RefSeq Size:** 2115 bp

**RefSeq ORF:** 1083 bp

**Locus ID:** 22413

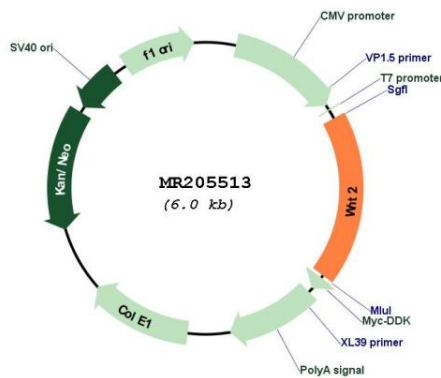
**UniProt ID:** [P21552](#)

**Cytogenetics:** 6 8.08 cM

**MW:** 40.5 kDa

**Gene Summary:** Ligand for members of the frizzled family of seven transmembrane receptors. Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:19686689). Functions as upstream regulator of FGF10 expression (PubMed:19686689). Plays an important role in embryonic lung development (PubMed:19686689). May contribute to embryonic brain development by regulating the proliferation of dopaminergic precursors and neurons (PubMed:20018874).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205513