

Product datasheet for **MG205513**

Wnt2 (NM_023653) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt2 (NM_023653) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wnt2
Synonyms:	2610510E18Rik; Int111; Irp; Mirp; Wnt-2; Wnt2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205513 representing NM_023653 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGTCCTCTCGGTGGAATCTGGCTCTGGCTCCCTCTGCTCTTGACCTGGCTCACCCCTGAGGTCA
GCTCTTCATGGTGGTACATGAGAGCTACAGGTGGCTCCTCCAGGGTGATGTGTGACAATGTGCCAGGCCT
GGTGAGCCGGCAGCGTCAGCTGTGCCACCGACACCCAGATGTGATGCGTGCCATTGGCCTGGGTGTGGCT
GAGTGGACTGCAGAGTGCCAACACCAGTCCGCCAGCATCGTGGAAGTCAACACCCTGGACAGAGATC
ACAGCCTCTTTGGCCGGTCTCCTCCGAAGTAGTCGAGAATCGGCCTTTGTTTACGCCATCTCTTCAGC
TGGCGTTGTATTTGCCATCACCAGGGCCTGTAGCCAAGGAGAATTAAGTCTGCTCCTGTGATCCAAAG
AAGAAAGGAAGTGCCAAGGACAGCAAAGGCACCTTCGACTGGGGTGGCTGCAAGTGAATATTGACTACG
GGATCAAGTTTGGCCGTGCCTTTGTAGATGCCAAGGAGAGGAAAGGCAAGGATGCCAGAGCCCTGATGAA
CCTTCACAACAACAGAGCTGGAAGGAAGGCTGTAAGCGCTTCTTGAAACAAGAAATGCAAGTGTCATGGT
GTGAGTGGCTCCTGTACTCTGAGGACATGCTGGCTGGCCATGGCTGACTTCAGGAAAACAGGCGACTATC
TCTGGAGGAAGTACAATGGGGCCATCCAGGTAGTCATGAACCAGGATGGCACTGGCTTCACTGTAGCCAA
TAAGAGGTTTAAGAAGCCAACGAAAAATGACCTCGTGTATTTGAGAATTCTCCAGACTACTGTATCAGG
GACCGAGAGGCAGGCTCCCTGGGTACAGCGGGCCGTGTGTGCAACTTGACTTCCCAGGCATGGACAGT
CGGAAAGTTATGTGTTGTGGGAGAGGCTATGACACATCCCACGTACCCCGGATGACCAAGTGTGAGTGTA
ATTCCACTGGTGTGTGCCGTGCGCTGTGAGGACTGCCTGGAGGCCCTGGACGTGCACACATGCAAGGCC
CCCAAGAGTGCCGACTGGGCGACGCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205513 representing NM_023653
 Red=Cloning site Green=Tags(s)

MNVPLGGIWLWLP LLLTWLTPEVSSSWWYMRATGGSSRVMCDNVPGLVSRQRQLCHRHPDVMRAIGLVGVA
 EWTAEQCQHQRHWRNCNTLDRDHSLFGRVLLRSSRESAFVYAISSAGVVFAITRACSQGELKSCSDPK
 KKGSAKDSKGTFDWGGCSDNIDYGIKFARAFVDAKERKGDARALMNLHNNRAGRKAVKRF LKQECKCHG
 VSGSCTLRTCWLAMADFRKTGDYLRWYNGAIQVVMNQDGTGFTVANKRFKKPTKNDLVYFENSPDYCIR
 DREAGSLGTAGRVCNLT SRGMDSCCEVMCCGRGYDTSHVTRMTKCECKFWHCCA VRCQDCLEALDVHTCKA
 PKSADWATPT

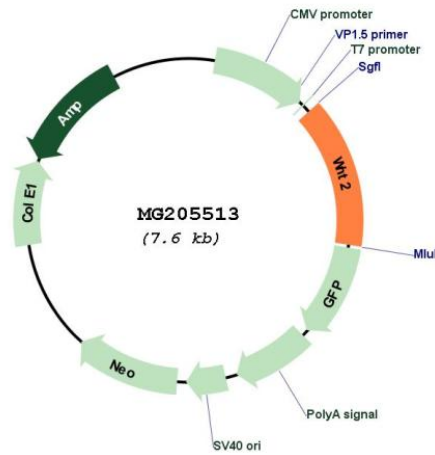
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_023653

ORF Size:	1080 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_023653.3 , NP_076142.2
RefSeq Size:	2027 bp
RefSeq ORF:	1083 bp
Locus ID:	22413
UniProt ID:	P21552
Cytogenetics:	6 8.08 cM
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]