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Product datasheet for MC209653

Wnt4 (NM_009523) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wnt4 (NM_009523) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wnt4
Synonyms:	Wnt-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC209653 representing NM_009523
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCCCCGTTCGTGCCTGCGGTCCCTGCGACTCCTCGTCTTCGCCGTGTTCTCGGCCGCCGCGAGCA
ATTGGCTGTACCTGGCCAAGCTGTCATCGGTGGGCAGCATCTCCGAAGAGGAGACGTGCGAGAAGCTCAA
AGGCCTGATCCAGAGGCAGGTGCAGATGTGCAAACGGAACCTCGAGGTGATGGACTCAGTGCGCCGTGGC
GCCCAGCTGGCCATCGAGGAGTGCCAATACCAGTTCCGGAATCGGCGCTGGAACTGTTCCACACTGGACT
CCCTCCCTGTCTTTGGGAAGGTGGTGACACAAGGGACCCGGGAGGCGGCCTTTGTATACGCCATCTCTTC
AGCAGGTGTGGCCTTTGCAGTGACAAGGGCATGCAGCAGTGGAGAACTGGAGAAGTGTGGCTGTGACCGG
ACAGTGCACGGGGTCAGCCCACAGGGCTTCCAGTGGTCAGGATGCTCGGACAACATCGCCTATGGCGTAG
CCTTCTCACAGTCCTTTGTGGACGTCCGGGAGAGGAGCAAGGGGGCCTCCTCCAGCCGGGCACTCATGAA
TCTTCACAACAACGAGGCTGGCAGGAAGGCCATCTTGACACACATGCGGGTGGAGTGCAAGTGTCACGGG
GTGTCGGGCTCCTGCGAGGTAAAGACGTGCTGGCGTGCTGTACCGCCCTTCCGCCAGGTTGGCCACGCGC
TAAAGGAGAAGTTTGACGGTGCCACGGAGGTGGAGCCACGACGCGTAGGCTCCTCCCGGGCGCTGGTGCC
TCGGAATGCACAGTTCAAGCCACATACAGATGAGGACCTGGTATACCTGGAGCCTAGCCCGGACTTCTGT
GAGCAGGACATCCGCAGTGGCGTGCTAGGCACGAGGGGCCGCACGTGCAACAAGACATCTAAAGCCATTG
ACGGCTGCGAGCTACTGTGCTGTGGCCGCGGCTTCCACACAGCGCAAGTGGAGCTGGCCGAGCGCTGTGG
CTGCAGGTTCCACTGGTGCTGCTTCGTCAAGTGCCGGCAGTGCCAGCGGCTCGTGGAGATGCACACGTGC
CGGTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1873_d04.zip

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Restriction Sites:	SgfI-RsrII
ACCN:	NM_009523
Insert Size:	1055 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
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:	BC103560, AAI03561
RefSeq Size:	3823 bp
RefSeq ORF:	1056 bp
Locus ID:	22417
UniProt ID:	P22724
Cytogenetics:	4 D3

Gene Summary: Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Plays an important role in the embryonic development of the urogenital tract and the lung (PubMed:7990960, PubMed:9989404, PubMed:16054034, PubMed:17537789, PubMed:19830824, PubMed:26321050). Required for normal mesenchyme to epithelium transition during embryonic kidney development (PubMed:7990960, PubMed:16054034, PubMed:17537789, PubMed:19830824). Required for the formation of early epithelial renal vesicles during kidney development (PubMed:16054034). Required for normal formation of the Mullerian duct in females, and normal levels of oocytes in the ovaries (PubMed:9989404, PubMed:19830824). Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary (PubMed:9989404). Required for normal lung development and for normal patterning of trachael cartilage rings (PubMed:26321050).[UniProtKB/Swiss-Prot Function]