

Product datasheet for RC209205

WNT4 (NM_030761) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT4 (NM_030761) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNT4
Synonyms:	SERKAL; WNT-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209205 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCCCCGCTCGTGCCTGCGTTTCGCTGCGCCTCCTCGTCTTCGCCGTCTTCTCAGCCGCCGCGAGCA
ACTGGCTGTACCTGGCCAAGCTGTCGTCGGTGGGAGCATCTCAGAGGAGGAGACGTGCCGAGAACTCAA
GGGCTGATCCAGAGGCAGGTGCAGATGTGCAAGCGGAACCTGGAAGTCATGGACTCGGTGCGCCGGT
GCCAGCTGGCCATTGAGGAGTGCCAGTACCAGTTCGGAACCGCGCTGGAAGTCTCCACTCGACT
CCTTGCCCGTCTTCGGCAAGGTGGTGACGCAAGGACTCGGGAGCGGCCTTCGTGTACGCCATCTTTC
GGCAGGTGTGGCCTTTCAGTGACGCGGGCGTGCAGCAGTGGGGAGCTGGAGAAGTGCAGCTGTGACAGG
ACAGTGCATGGGGTCAGCCACAGGGCTTCCAGTGGTCAGGATGCTCTGACAACATCGCCTACGGTGTGG
CTTTCTCACAGTCGTTTGTGGATGTGCGGGAGAGAAGCAAGGGGGCCTCGTCCAGCAGAGCCCTCATGAA
CCTCCACAACAATGAGGCCGGCAGGAAGGCCATCCTGACACACATGCGGGTGGAAATGCAAGTGCCACGGG
GTGTCAGGCTCCTGTGAGGTAAGACGTGCTGGCAGCCGTGCCGCCCTCCGCCAGGTGGGTACGCAC
TGAAGGAGAAGTTGATGGTGCCACTGAGGTGGAGCCACGCCGTGGGCTCCTCCAGGGCACTGGTGCC
ACGCAACGCACAGTTCAAGCCGCACACAGATGAGGACCTGGTGTACTTGGAGCCTAGCCCCGACTTCTGT
GAGCAGGACATGCGCAGCGCGTGTGGCAGCAGGGGGCCGACATGCAACAAGACGTCCAAGGCCATCG
ACGGCTGTGAGCTGCTGTGCTGTGGCCCGGCTTCCACACGGCCGAGGTGGAGCTGACTGAACGCTGCAG
CTGCAAATTCACCTGGTGTGCTTCGTCAAGTGCCGGCAGTGCCAGCGGCTCGTGGAGTGCACACGTGC
CGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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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_030761.5](#)

RefSeq Size: 3905 bp

RefSeq ORF: 1056 bp

Locus ID: 54361

UniProt ID: [P56705](#)

Cytogenetics: 1p36.12

Domains: wnt

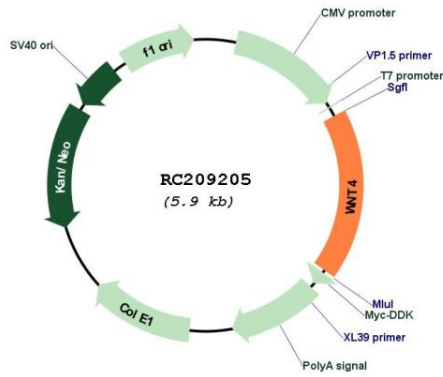
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway

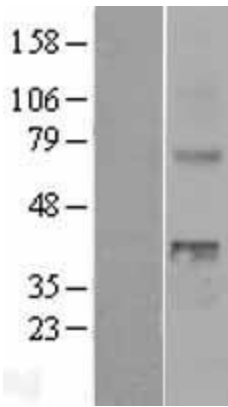
MW: 39.1 kDa

Gene Summary: The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family, and is the first signaling molecule shown to influence the sex-determination cascade. It encodes a protein which shows 98% amino acid identity to the Wnt4 protein of mouse and rat. This gene and a nuclear receptor known to antagonize the testis-determining factor play a concerted role in both the control of female development and the prevention of testes formation. This gene and another two family members, WNT2 and WNT7B, may be associated with abnormal proliferation in breast tissue. Mutations in this gene can result in Rokitansky-Kuster-Hauser syndrome and in SERKAL syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209205



Western blot validation of overexpression lysate (Cat# [LY403075]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209205 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).