

Product datasheet for **RR208361**

Wnk4 (NM_175579) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wnk4 (NM_175579) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Wnk4
Synonyms: Ac2-059; Prkwk4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208361 representing NM_175579
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTAGCACCTCGAAATACAGAGACCGGGTCCACATGTCCAAACGGAGGCCGACCTGGCTTTGCGGC
 CATCTCCGTCTCTCACCTCCATGGGGCCGACCCGCTGGGGCCACCTCCTCGCCGAGTGCGCCGTTCTC
 TGGGAAGGCTGAGCCCCGGCCGGCTCTTCGAGACCGAGCCGCCGACGCTCAGTCGATCTGGGACTGTTG
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 GGAGCCCACCTTCAAACCTCTAAAGAACACCCCGAGGGCACATGGACGGGGCAGCCCCGGTGAAGGCTGC
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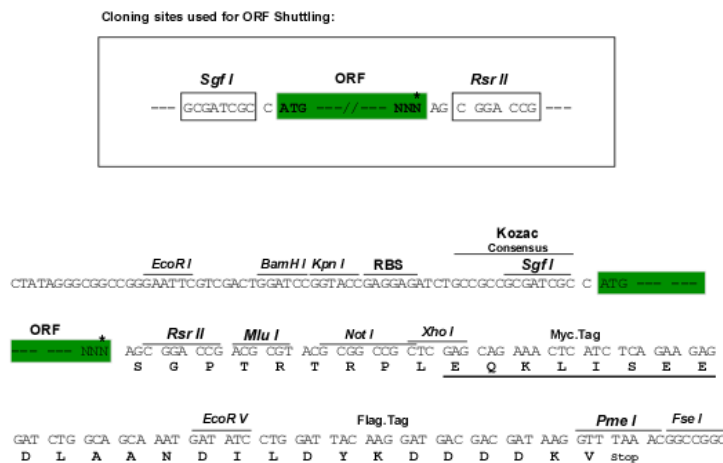
Protein Sequence: >RR208361 representing NM_175579
 Red=Cloning site Green=Tags(s)

MLAPRNTETGVHMSQTEADLALRPSPSLTSMGPTRLGPPPRRVRRFSGKAEPRRSPRRSSVDLGLL
 SWSQPASLLPEPPDPPDSAGPMRSPSPNSKEHPEGTWTGAAPVKAADSACPELTVSSGGPGSREPPRPV
 DAAARERRREQEKEDETETQAVATSPDGRYLKFDIEIGRGSFKTVYRGLDTHVAVWCELQARKLSRA
 ERQRFSEEVEMLKGLQHPNIVRFYDSWKSVLRGQVCIVLVTLMSTGTLKTYLRRFREMFKRVLQRWSRQ
 ILRGLHFLHSRVPPIILHRDLKCDNVFITGPSGSVKIGDLGLATLKRASF AKSVIGTPEFMAPEMYEEKYD
 EAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGTKPNSFYKVKMPEVKEIEGCIKRTDKNERFTI
 QDLLTHAFFREERGVHVELAEEDDGEKPLKWLWLMEDARRGGRPRDNQAI EFLFQLGRDAAEEVAQEMV
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 SDFSPGDSYASDAASGLSDMGEQGMKRNPKTLRRRPRSRVTSVSDQSDRVVECLQTHNSKMVTFR
 FDLDGSPSEEIAAMVYNEFILPSEKDFLSRIREIIQRVETLLKRDAGPSEATEDALSPQEEAAAMPAL
 PGPSPDEELQRSISPEQSWAAFSTSPSSPGTPLSPGTPFSPGTPPVFPCPIFPITSPSCHPYPFVSSN
 PCPQAPSSLLPSSSGASQVFPSPSLPTSSPLPSPSYQVPLHPASLPTCSPPPPLPSTTAAPLLSLAS
 AFSLAVMTVAQSLSPSPGLLSQSPAPPGLPSMPLPLASCDQESLSAQTAETENEASRNAQPLLGD
 RLAPISEEGKPLVGRFQVTSKKEPAEPPLQPASPTLSRSLKLPQTLTSSSDTEDSAAGGPETREALA
 ESDRAEGLGVAIDEEKDEGKEPQIGGSSPILSQSPVWMNYSYSSLCLSSSEESSGEDEEFWAEQLNL
 RQKHLSEVEALQTLQKKEIEDLYSRLGKQPPGIVAPAAMLSCRQRRLSKGSFPTSRNLSQRSDLP
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SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

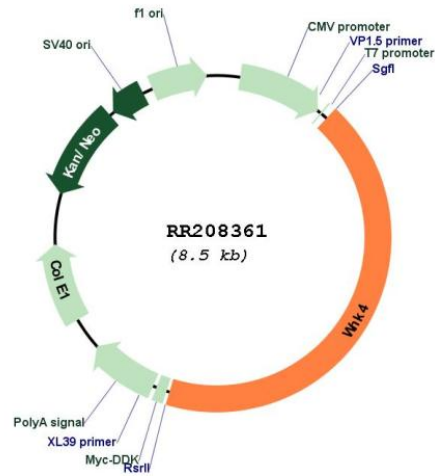
Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_175579

ORF Size: 3666 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_175579.3](#), [NP_783169.2](#)

RefSeq Size: 4093 bp

RefSeq ORF: 3669 bp

Locus ID: 287715

UniProt ID: [Q7TPK6](#)

Cytogenetics: 10q31

MW: 132.8 kDa

Gene Summary: mutation of the human homolog causes pseudohypoaldosteronism type II [RGD, Feb 2006]