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Product datasheet for RC209317

KANK4 (NM_181712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KANK4 (NM_181712) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KANK4
Synonyms:	ANKRD38; dJ1078M7.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209317 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGACAGATGCCAAAGACCAGTCCTCTCAGGGGGATGAAGAGAAAGACCCTCCGAAGAGCCACC
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GGCCTCAACAAGCAGGAGTGAGGTGAGCTACCACAGGAAGGCTCTGTTGGCAGAGGCCACCAGACAGTTG
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CCCAGCAGAACGTGTGCTTCTGCCCCAGCTGTCACTGCCACAGGGACCCGAGCAGGTCCTTACCTCCTCT

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GTACATAGCTTCCTCTCCACTGAACTCAGGATTGAAGAAGCAGGCACTGAACAGGAAGGAGGCCCTCAGG
GAGGAACCAGGGGAGCAGGAGGCTTTCTGTGGGGCAGTGACAGAAAGACTCCCCCAGCAGGGAGGGAGGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209317 protein sequence
Red=Cloning site Green=Tags(s)

MEKTDAKDQSSQGDEEKDPPKSHPYSVETPYGFHLDLDFLKYVDDIEKGNTIKRIPIHRRAKQAKFSTLP
RNFSLPDSGARPPAAPPLQNWSPVVPREASLGTQEQNQSPPLGNAPQASTSRSEVSYHRKALLAEATRQL
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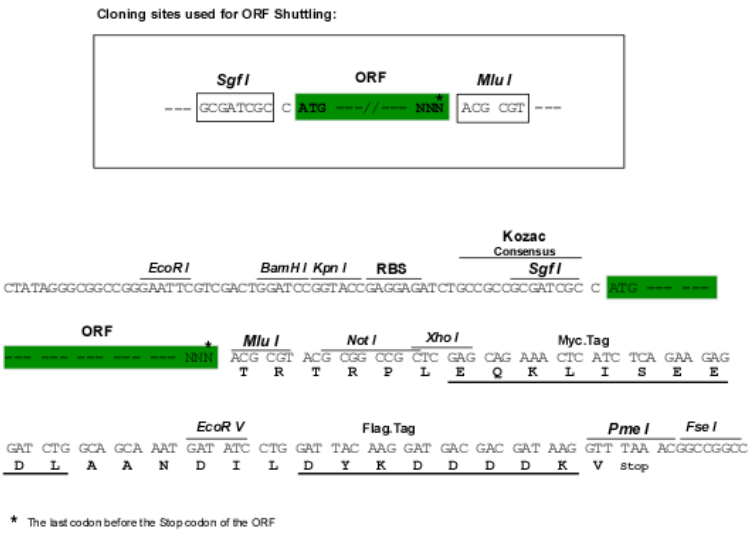
GLLRAHAEQGRSLGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6512_f08.zip

Restriction Sites: SgfI-MluI

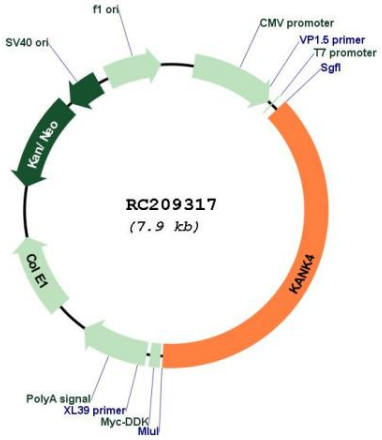
Cloning Scheme:



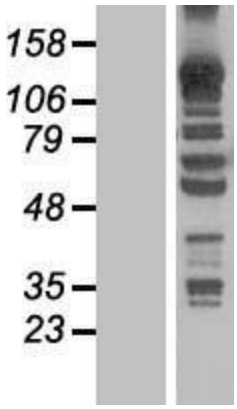
ACCN:	NM_181712
ORF Size:	2985 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_181712.3
RefSeq Size:	5477 bp
RefSeq ORF:	2988 bp

Locus ID:	163782
UniProt ID:	Q5T7N3
Cytogenetics:	1p31.3
MW:	107.3 kDa
Gene Summary:	May be involved in the control of cytoskeleton formation by regulating actin polymerization. [UniProtKB/Swiss-Prot Function]

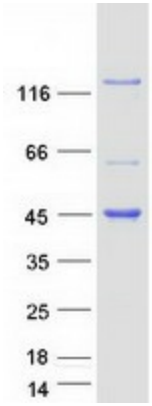
Product images:



Circular map for RC209317



Western blot validation of overexpression lysate (Cat# [LY405659]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KANK4 protein (Cat# [TP309317]). The protein was produced from HEK293T cells transfected with KANK4 cDNA clone (Cat# RC209317) using MegaTran 2.0 (Cat# [TT210002]).