

Product datasheet for RC206891

NUP214 (NM_005085) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP214 (NM_005085) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUP214
Synonyms:	CAIN; CAN; IIAE9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206891 representing NM_005085 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGACGAGATGGATGCCATGATTCCCGAGCGGGAGATGAAGGATTTTCAGTTTAGAGCGCTAAAGA
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Protein Sequence: >RC206891 representing NM_005085
 Red=Cloning site Green=Tags(s)

MGDEMDAMIPEREMKDFQFRALKKVRIFDSPEELPKERSLLAVSNKYGLVFAGGASGLQIFPTKNLLIQ
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005085

ORF Size: 6270 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_005085.4](#)

RefSeq Size: 6614 bp

RefSeq ORF: 6273 bp

Locus ID: 8021

UniProt ID: [P35658](#)

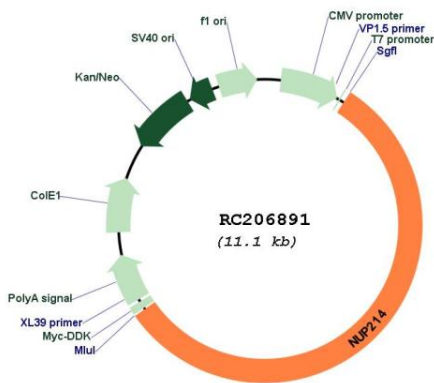
Cytogenetics: 9q34.13

Domains: WD40, Nucleoporin_FG

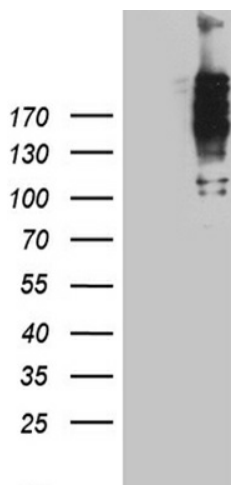
MW: 213.4 kDa

Gene Summary: The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. This gene is a member of the FG-repeat-containing nucleoporins. The protein encoded by this gene is localized to the cytoplasmic face of the nuclear pore complex where it is required for proper cell cycle progression and nucleocytoplasmic transport. The 3' portion of this gene forms a fusion gene with the DEK gene on chromosome 6 in a t(6,9) translocation associated with acute myeloid leukemia and myelodysplastic syndrome. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC206891



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NUP214 (Cat# RC206891, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NUP214 rabbit polyclonal antibody(Cat# [TA890139]).