

## Product datasheet for RC213658

### GP210 (NUP210) (NM\_024923) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GP210 (NUP210) (NM_024923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GP210
Synonyms:	GP210; POM210
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213658 representing NM_024923 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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**Protein Sequence:**

>RC213658 representing NM\_024923  
 Red=Cloning site Green=Tags(s)

MAARGRLLLLTLVLLAAGPSAAAALNIPKVLPPFTRATRVNFTLEASEGCRYWLSTRPEVASIEPLG  
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 VLDPAAGSQGPLSTTLTFSSPVTNQAIAIPVTVAFFVDRRGGPGYASLFGHFLDSYQVMMFFTLFALLAG  
 TAVMIIAYHTVCTPRDLAVPAALTPRASPGHSPHYFAASSPTSPNALPPARKASPPSGLWSPAYASH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8011\\_a08.zip](https://cdn.origene.com/chromatograms/mk8011_a08.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_024923

**ORF Size:** 5661 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\\_024923.2](#), [NP\\_079199.2](#)

**RefSeq Size:** 7191 bp

RefSeq ORF: 5664 bp

Locus ID: 23225

UniProt ID: [Q8TEM1](#)

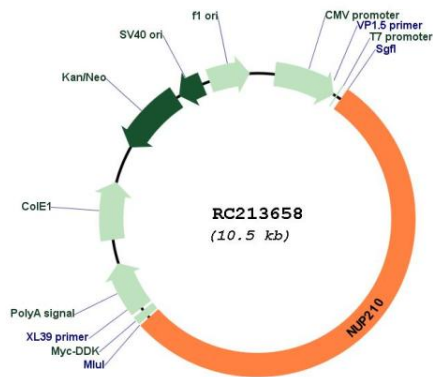
Cytogenetics: 3p25.1

Protein Families: Transmembrane

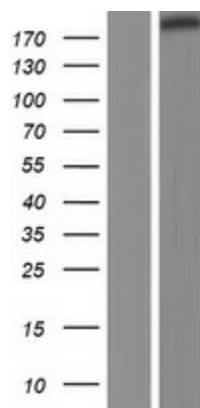
MW: 204.9 kDa

**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. The protein encoded by this gene is a membrane-spanning glycoprotein that is a major component of the nuclear pore complex. Multiple pseudogenes related to this gene are located on chromosome 3. [provided by RefSeq, Jul 2013]

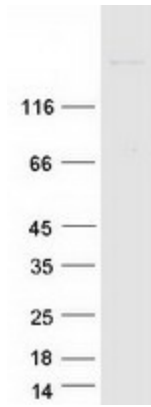
### Product images:



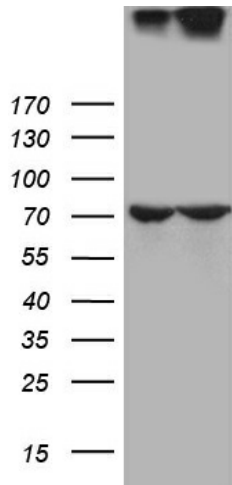
Circular map for RC213658



Western blot validation of overexpression lysate (Cat# [LY410963]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213658 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUP210 protein (Cat# [TP313658]). The protein was produced from HEK293T cells transfected with NUP210 cDNA clone (Cat# RC213658) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NUP210 (Cat# RC213658, 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-NUP210 antibody (Cat# [TA812297]). Positive lysates [LY410963] (100ug) and [LC410963] (20ug) can be purchased separately from OriGene.