

## Product datasheet for **RG201704**

### NUCKS1 (NM\_022731) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: NUCKS1 (NM\_022731) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: NUCKS1  
 Synonyms: JC7; NUCKS  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG201704 representing NM\_022731  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGCGCCTGTCTAGAAATAGGAAGTTGTTGATTACTCACAGTTTCAGGAATCTGATGATGCAGATG  
 AAGATTATGGAAGAGATTCGGGCCCTCCACTAAGAAAATTCGATCATCTCCCGAGAAGCTAAAAATAA  
 GAGGCGATCTGGAAGAATTCACAGGAAGATAGTGAGGACTCAGAAGACAAAGATGTGAAGACCAAGAAG  
 GATGATTCTCACTCAGCAGAGGATAGTGAAGATGAAAAAGAAGATCATAAAAATGTGCGCCAACAACGGC  
 AGGCGGCATCTAAGCAGCTTCTAACAGAGAGAGATGCTCATGGAAGATGTGGCAGTGAGGAAGAACA  
 AGAAGAGGAGGATGAGGCACCATTCAGGAGAAAGATTCGGCAGCGATGAAGATTCCTAATGGAAGAT  
 GATGACGATAGTACTATGGCAGTTCGAAAAAGAAAAACAAAAAGATGGTTAAGAAGTCCAAACCTGAAA  
 GAAAAGAAAAGAAAATGCCCAAACCCAGACTAAAGGCTACAGTGACGCCAAGTCCAGTGAAGGCAAAGG  
 GAAAGTGGGTCGCCCCACAGCTTCAAAGGCATCAAAGGAAAAGACTCCTTCTCCCAAAGAAGAAGATGAG  
 GAACCGGAAAGCCCGCCAGAAAAGAAAACATCTACAAGCCCCCACCAGAAATCTGGGGATGAAGGGT  
 CTGAAGATGAAGCCCCTTCTGGGGAGGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201704 representing NM\_022731  
Red=Cloning site Green=Tags(s)

MSRPVNRNKVVDYSQFQESDDADEDYGRDSGPPTKKIRSSPREAKNKRSGKNSQDESEDEKDVKTKK  
 DDSHSAEDSEDEKEDHKNVRQQRQAASKAASKQREMLMEDVGSSEEEQEEDEAPFQEKDSGDEDFLMED  
 DDDSDYGSKKKNKMKVKKSKPERKEKMPKPRLKATVTPSPVKGKGKVGVRPTASKASKEKTPSPKEEDE  
 EPESPEKKTSTSPPEKSGDEGESEDEAPSGED

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022731

**ORF Size:** 729 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\\_022731.5](#)

**RefSeq Size:** 1231 bp

**RefSeq ORF:** 732 bp

**Locus ID:** 64710

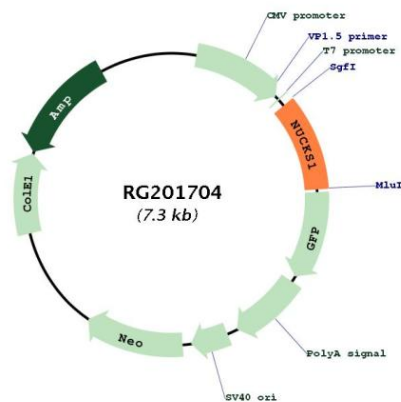
**UniProt ID:** [Q9H1E3](#)

**Cytogenetics:** 1q32.1

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a nuclear protein that is highly conserved in vertebrates. The conserved regions of the protein contain several consensus phosphorylation sites for casein kinase II and cyclin-dependent kinases, two putative nuclear localization signals, and a basic DNA-binding domain. It is phosphorylated in vivo by Cdk1 during mitosis of the cell cycle. [provided by RefSeq, Aug 2010]

## Product images:



Circular map for RG201704