

## Product datasheet for **RG203543**

### NUDC (NM\_006600) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUDC (NM_006600) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUDC
Synonyms:	HNUDC; MNUDC; NPD011
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203543 representing NM_006600 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGGAGAGCAGGAGGAGGAGCGGTTTCGACGGCATGTTGCTGGCCATGGCTCAGCAGCACGAGGGCG  
GCGTGCAGGAGCTTGTGAACACCTTCTTCAGCTTCCTTCGACGCAAAACAGACTTTTTTCATTGGAGGAGA  
AGAAGGGATGGCAGAGAAGCTTATCACACAGACTTTCAGCCACCACAATCAGCTGGCACAGAAGACCCGG  
CGGGAGAAGAGAGCCCGCAGGAGGCCGAGCGGGGAGAAGCGGAGCGGGCGCCAGACTGGCCAAGG  
AAGCCAAGTCAGAGACCTCAGGGCCCCAGATCAAGGAGCTAACTGATGAAGAGGCAGAGAGGCTGCAGCT  
AGAGATTGACCAGAAAAAGGATGCAGAGAATCATGAGGCCAGCTCAAGAACGGCAGCCTTGACTCCCCA  
GGGAAGCAGGATACTGAGGAAGATGAGGAGGAAGATGAGAAGGACAAAGGAAAACCTGAAGCCCAACCTAG  
GCAACGGGGCAGACCTGCCCAATTACCGCTGGACCCAGACCTGTCCGAGCTGGACCTGGCGGTCCCTTT  
CTGTGTGAACCTCCGGCTGAAAGGGAAGGACATGGTGGTGGACATCCAGCGGGCGGCACCTCCGGGTGGG  
CTCAAGGGGCAGCCAGCGATCATTGATGGGGAGCTCTACAATGAAGTGAAGTGGAGGAGAGCTCGTGCC  
TCATTGAGGACGGCAAGGTGGTACTGTGCATCTGGAGAAGATCAATAAGATGGAGTGGTGGAGCCGCTT  
GGTGTCCAGTGACCCTGAGATCAACACCAAGAAGATTAACCCCTGAGAATCCAAGCTGTCCAGACCTGGAC  
AGTGAGACTCGCAGCATGGTGGAAAAGATGATGTATGACCAGCGACAGAAGTCCATGGGGCTGCCAACTT  
CAGACGAACAGAAGAAACAGGAGATTCTGAAGAAGTTCATGGATCAACATCCGGAGATGGATTTTTCCAA  
GGCTAAATTCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203543 representing NM\_006600  
 Red=Cloning site Green=Tags(s)

MGGEQEEERFDGMLLAMAQQHEGGVQELVNTFFSFLRRKTDFFIGGEEGMAEKLITQTFSHHNQLAQKTR  
 REKRARQEAERREKAERAARLAKEAKSETSGPQIKELTDEEAERLQLEIDQKKDAENHEAQLKNGSLDSP  
 GKQDTEEDEEEDKDKGLKPNLGNADLPNYRWTQTLSELDLAVPFCVNFRLKGGKDMVVDIQRRLRVG  
 LKGQPAIIDGELYNEVKVEESSWLIEDGKVVTVHLEKINKMEWWSRLVSSDPEINTKKINPENSKLSLDL  
 SETRSMVEKMMYDQRQKSMGLPTSDEQKKQEILKKFMDQHPMDFSKAKFN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006600

**ORF Size:** 993 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\\_006600.4](#)

**RefSeq Size:** 1397 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 10726

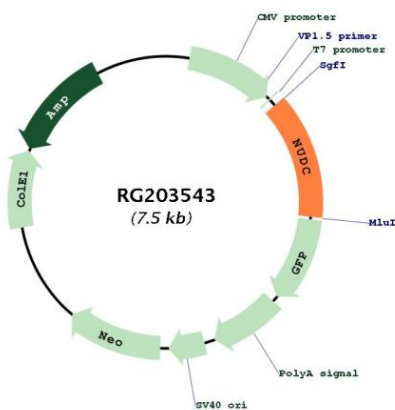
**UniProt ID:** [Q9Y266](#)

**Cytogenetics:** 1p36.11

**Domains:** Nuclear\_move

**Gene Summary:** This gene encodes a nuclear distribution protein that plays an essential role in mitosis and cytokinesis. The encoded protein is involved in spindle formation during mitosis and in microtubule organization during cytokinesis. Pseudogenes of this gene are found on chromosome 2. [provided by RefSeq, Feb 2012]

## Product images:



Circular map for RG203543