

Product datasheet for **RG200066**

Nucleostemin (GNL3) (NM_014366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleostemin (GNL3) (NM_014366) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nucleostemin
Synonyms:	C77032; E2IG3; NNP47; NS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG200066 representing NM_014366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGTATAAAATCCAAAAA
 AGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTACAAGAAGCCTAGGAAAGA
 CCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGAAAACAGAGG
 CTTGAAGAACTAAAACAGCAGCAGAAAATTGACAGGCAGAAGGAAGTAAAAAGAAAAGAAAAGTTGAAA
 CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAAAGGAGTTTGGGCTTTGCAAACTGAGAA
 CAAAGCCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAAGTAAAAAGGTGATTGAAGCC
 TCCGATGTTGCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCCTCAGGTAGAAGAGG
 CCATTGTCAGAGTGGACAGAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAAGGAGAA
 TTTGGAGAGCTGGCTAAATTATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCA
 AAGGATAAAGGGAAGATAACCAAGCGTGTGAAGGCAAAGAAGAATGCTGCTCCATTAGAAAGTGAAGTCT
 GCTTTGGGAAAGAGGGCCTTTGGAACTTCTTGGAGGTTTTAGGAACTTGCAGCAAAGCCATTCGGGT
 TGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCAGCATTATCAATAGCTTAAAAACAAGAACAGATGTGT
 AATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAGTTGTCCCCTTGGACAAAACAGATCACAATCA
 TAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTGCGCTTGTCTGCGAAGTCCAGCAAG
 TATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGGCTGATGCTCGACAGGTAGTA
 CTGAAATATACTGTCCCAGGCTACAGGAATCTCTGGAATTTTTACTATGCTTGTCTGAGAGAAGAGGTA
 TGACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTGAGAGGAGGATGTC
 CTACTTAGCTTACTATTGCCATCCCCTACATCTTGGACTCCTCCTCCATATTTAATGAGAGTATTGTG
 GTAGACATGAAAAGCGGCTTCAATCTGGAAGAAGTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
 AGGGCCCTCATTTGGCCAATAGCATCCTTTTCCAGTCTCCGGTCTGACAAATGGAATAATAGAAGAAA
 GGACATACATGAAGAATTGCCAAAACGGAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAAGACAGT
 GACCAGGAACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTCTGAGAAGACAGGGG
 AGGCACGTCTGAGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTATCTTGGATAAAATCATTGA
 AGAGGATGATGCTTATGACTTCAGTACAGATTATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200066 representing NM_014366
 Red=Cloning site Green=Tags(s)

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREELRKQR
 LEELKQQKLDROKELEKRRKLETNPDIKPSNVEPMEKEFGLCKTENKAKSGKQNSKKLYCQELKKVIEA
 SDVVLEVL DARDPLGCRCPQVEEAIVQSGQKLVLLLNKSDLVPKENLESWLNLYLKKELPTVVFRATKPK
 KDKGKITKRVKAKKNAAPFRSEVCFGKEGLWLLGGFQETCSKAIRVGVIGFPNVGKSSIIINSLKQEQMC
 NVGVSMGLTRSMQVPLDKQITIIDSPSFIVSPLNSSLALALRSPASIEVVKPMEASAALSQADARQVV
 LKYTVPGYRNSLEFFTMLAQRGMHQKGGIPNVEGAALLWSEWTGASLAYYCHPPTSWTPPPYFNESIV
 VDMKSGFNLEELKNNASIRAIKGPLANSILFQSSGLTNGIIEEKDIHEELPKRKRKQEEEREDDKDS
 DQETVDEEVDENSSGMFAAETGEALSEETTAGEQSTRSFILDKIIEEDDAYDFSTDYV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014366

ORF Size: 1647 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_014366.3](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1650 bp

Locus ID: 26354

UniProt ID: [Q9BVP2](#)

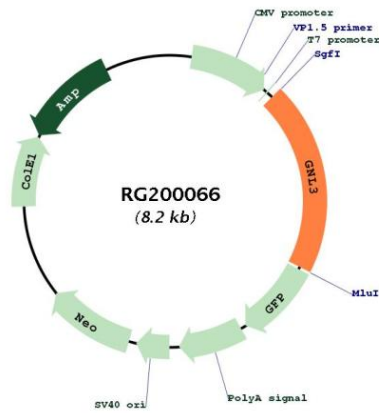
Cytogenetics: 3p21.1

Domains: MMR_HSR1

Protein Families: ES Cell Differentiation/IPS, Stem cell - Pluripotency

Gene Summary: The protein encoded by this gene may interact with p53 and may be involved in tumorigenesis. The encoded protein also appears to be important for stem cell proliferation. This protein is found in both the nucleus and nucleolus. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG200066