

Product datasheet for **RG218355**

Nucleostemin (GNL3) (NM_206825) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Nucleostemin (GNL3) (NM_206825) 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) |



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ORF Nucleotide Sequence:

>RG218355 representing NM_206825
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGTATAAAATCCAAAAA
 AGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCAAGAAGCCTAGGAAAGA
 CCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTTCTTTAGGGAAGCTGAGCTAAGGAAACAGAGG
 CTTGAAGAACTAAAACAGCAGCAGAACTTGACAGGCAGAAGGAACTAGAAAAGAAAAGAAAAGTTGAAA
 CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAAAGGAGTTTGGGCTTTGCAAACTGAGAA
 CAAAGCCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCC
 TCCGATGTTGCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGCCTCAGGTAGAAGAGG
 CCATTGTCAGAGTGGACAGAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAAGGAGAA
 TTTGGAGAGCTGGCTAAATTATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCA
 AAGGATAAAGGGAAGATAACCAAGCGTGTGAAGGCAAAGAAGAATGCTGCTCCATTAGAAAGTGAAGTCT
 GCTTTGGGAAAGAGGGCCTTTGGAACTTCTTGGAGGTTTTAGGAACTTGCAGCAAAGCCATTCGGGT
 TGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCAGCATTATCAATAGCTTAAAACAAGAACAGATGTGT
 AATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAGTTGTCCCCTTGACAAAACAGATCACAATCA
 TAGATAGTCCGAGCTTTCATCGTATCTCCACTTAATTCCTCTCTGCGCTTGTCTGCGAAGTCCAGCAAG
 TATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGGCTGATGCTCGACAGGTAGTA
 CTGAAATATACTGTCCCAGGCTACAGGAATTCTCTGGAATTTTTACTATGCTTGTCTGAGAGAAGAGGTA
 TGACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTGTGAGGAGGAGGAGG
 CTCAATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTAATGAGAGTATTGTG
 GTAGACATGAAAAGCGGCTTCAATCTGGAAGAAGTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
 AGGGCCCTCATTTGGCCAATAGCATCCTTTCCAGTCTCCGGTCTGACAAATGGAATAATAGAAGAAA
 GGACATACATGAAGAATTGCCAAAACGGAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAAGACAGT
 GACCAGGAACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTCTGAGAAGACAGGGG
 AGGCACGTCTGAGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTATCTTGGATAAAATCATTGA
 AGAGGATGATGCTTATGACTTCAGTACAGATTATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218355 representing NM_206825
 Red=Cloning site Green=Tags(s)

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREELRKQR
 LEELKQQKLDROKELEKRRKLETNPDIKPSNVEPMEKEFGLCKTENKAKSGKQNSKKLYCQELKKVIEA
 SDVVLEVL DARDPLGCRCPQVEEAIVQSGQKLVLILNKSDLVPKENLESWLNLYLKKELPTVVFRASTKP
 KDKGKITKRVKAKKNAAPFRSEVCFGKEGLWLLGGFQETCSKAIRVGVIGFPNVGKSSIINSLKQEQMC
 NVGVSMGLTRSMQVPLDKQITIIDSPSFIVSPLNSSLALALRSPASIEVVKPMEEAASAILSQADARQVV
 LKYTVPGYRNSLEFFTMLAQRGMHQGGIPNVEGAAKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIV
 VDMKSGFNLEELKNNASIRAIKGPLANSILFQSSGLTNGIIEEKDIHEELPKRKRKQEEEREDDKDS
 DQETVDEEVDENSSGMFAAETGEALSEETTAGEQSTRSFILDKIIEEDDAYDFSTDYV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_206825

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_206825.1](#), [NP_996561.1](#)

RefSeq Size: 2159 bp

RefSeq ORF: 1614 bp

Locus ID: 26354

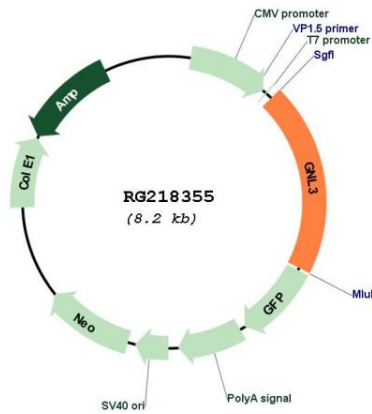
UniProt ID: [Q9BVP2](#)

Cytogenetics: 3p21.1

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 RG218355