

Product datasheet for **RG219082**

Nucleolin (NCL) (NM_005381) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleolin (NCL) (NM_005381) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nucleolin
Synonyms:	C23; Nsr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG219082 representing NM_005381
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAAGCTCGCGAAGGCAGGTAATAATCAAGGTGACCCCAAGAAAATGGCTCCTCCTCCAAAGGAGG
 TAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAAGATGATAGCAGTGGAGAAGAGGTCTG
 CATACTCAGAAGAAAGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAAGGTGGTCTTTCCCAACAAAA
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 GGGGTCGTGGTGGAGGCAGAGCGGCTTTGGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTTGG
 TGGCAGAGGCCGGGAGGCTTTGGAGGGCAGAGGAGGCTTCCGAGGAGGCAGAGGAGGAGGAGGTGACCAC
 AAGCCACAAGGAAAGAAGACGAAGTTTGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219082 representing NM_005381
 Red=Cloning site Green=Tags(s)

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MVKLAKAGKNQGDPKMAPPKVEEEDSEDEEMSEDEEDDSSGEEVVIPQKKGKKAATSAKKVVVSPTK
KVAVATPAKKAAVTPGKKAATPAKKTVTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNA
KKEDSDEEEDDDSEDEDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDDDDDEEDDSEEEA
METTPAKGKKAAKVVPVKAKNVAEEDDEEEDDEDEDDDEDDDEDEDEEEEEEEEEEPVKEAPGKR
KKEMAKQKAAPKAKKQKVEGTEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFG
YVDFESAEDLEKALELTGLKVFNEIKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAEIR
LVSKDGKSKGIAYIEFKTEADAektFEeKQgTEIDGRSISLYYTGEKQnQDYRGGKNSTWSGESKTLVL
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RGSFNARSQPSKTLFVKGLSEDTTEETLKEsFDGsvRARIVTDRETGSSKGFgFVDFNSEEDAKAAKeAM
EDGEIDGNKVTLDWAKPKGEGFGGRGGGRGGFGGRGGGRGGFGGRGGFGGRGGFRGGGGGDH
KPQGKTKFE
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

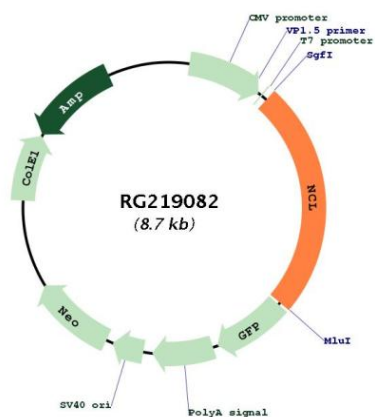


ACCN: NM_005381

ORF Size: 2130 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_005381.3
RefSeq Size:	2732 bp
RefSeq ORF:	2133 bp
Locus ID:	4691
UniProt ID:	P19338
Cytogenetics:	2q37.1
Domains:	RRM
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Pathogenic Escherichia coli infection
Gene Summary:	<p>Nucleolin (NCL), a eukaryotic nucleolar phosphoprotein, is involved in the synthesis and maturation of ribosomes. It is located mainly in dense fibrillar regions of the nucleolus. Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. The intron 11 of the NCL gene encodes a small nucleolar RNA, termed U20. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG219082