

## Product datasheet for **RC203415**

### Neugrin (NGRN) (NM\_016645) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neugrin (NGRN) (NM_016645) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neugrin
Synonyms:	DSC92; mesenchymal stem cell protein DSC92; neugrin, neurite outgrowth associated; neurite outgrowth associated protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203415 representing NM_016645 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCGCCTGGTGCCCGCCAGGACCTGACGTGGGAAGCCATGGAGCAGATACGGTATTTACATG  
AGGAATTTCCAGAGTCTGGTCAGTTCCAGGTTGGCTGAAGGCTTTGATGTCAGCACTGATGTATCCG  
AAGAGTTTTAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGATCAAAAAGTCCTTAAG  
AAAGCTGGGCTTGCCACTCGCTGCAGCACCTCCGGGGCTCTGGAATACCTCAAAGCTGCTCCCTGCAG  
GCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCACAGCAC  
AGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAAACACCAAGGAGAAGGAAGGAAAGAAATAAA  
GAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCATCAAGAGAGCTGCAGA  
AGTACTCCAGTGATTCTGAGAGCCCAGAGGAAGTGGCAGTGGTGCCTTGCCAAGTGGTCAGAAGCTGGA  
GGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTTCTTTGAC  
AGCAACGGGAACCTCCTGTACAGAATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_016645.2](#), [NP\\_057729.1](#)

**RefSeq Size:** 1782 bp

**RefSeq ORF:** 659 bp

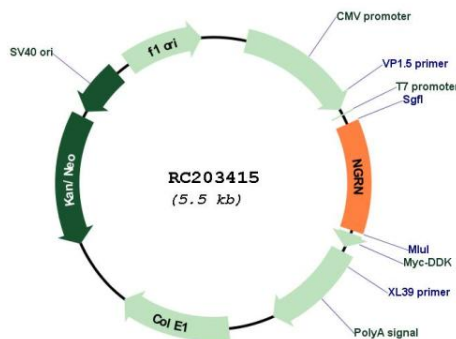
**Locus ID:** 51335

**Cytogenetics:** 15q26.1

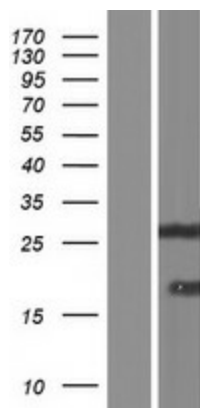
**MW:** 24.2 kDa

**Gene Summary:** Plays an essential role in mitochondrial ribosome biogenesis. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUUSD3, RPUUSD4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation of core subunits of the oxidative phosphorylation system.[UniProtKB/Swiss-Prot Function]

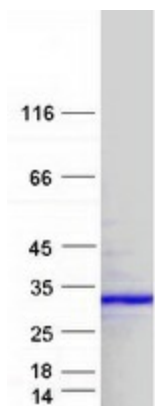
### Product images:



Circular map for RC203415



Western blot validation of overexpression lysate (Cat# [LY413846]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203415 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NGRN protein (Cat# [TP303415]). The protein was produced from HEK293T cells transfected with NGRN cDNA clone (Cat# RC203415) using MegaTran 2.0 (Cat# [TT210002]).