

Product datasheet for RC222032

Neugrin (NGRN) (NM_001033088) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neugrin (NGRN) (NM_001033088) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neugrin
Synonyms:	DSC92
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222032 representing NM_001033088 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGTTACCCTGAGTCTCTTGCTGGGCGGGCGGTTTGGCCGCCGTCCTACTCGCTGTGGGTTCCGGA
CCCGGGGGGTGGCGGGCCAGGCCCTATTGGCCGGGAGCCGGACCCCGATTCCGACTGGGAGCCGGAGGA
ACGGGAGCTGCAGGAGGTGGAGAGCACCCCTGAAACGACAGAAACAAGCAATCCGATTCCAGAAAATTCGG
AGGCAAATGGAGGCGCCTGGTGCCCGCCAGGACCCTGACGTGGGAAGCCATGGAGCAGATACGGTATT
TACATGAGGAATTTCCAGAGTCTGGTCAGTTCACAGGTTGGCTGAAGGCTTTGATGTCAGCACTGATGT
GATCCGAAGAGTTTTAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGATCAAAAAGTC
CTTAAGAAAGCTGGGCTTGCCCACTCGCTGCAGCACCTCCGGGGCTCTGAAATACCTCAAAGCTGCTCC
CTGCAGGCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCA
CAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAAACACCAAGGAGAAGGAAGGGAAGA
AATAAAGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCATCCAAGAGAGC
TGCAGAAGTACTCCAGTGATTCTGAGAGCCCCAGAGGAAGTGGCAGTGGTGCCTGCCAAGTGGTCAGAA
GCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTTC
TTTGACAGCAACGGGAACCTTCTGTACAGAATT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222032 representing NM_001033088
Red=Cloning site Green=Tags(s)

MAVTL SLL L GGRVCAAVTRCGFATR GVAGPGPIGREPDPDS DWEPEERELQEVESTLKRQKQAIRFQKIR
 RQMEAPGAPPRTLWEAMEQIRYLHEEFPE SWSVPRLAEGFDVSTDVIRRVLKSKFLPTLEQKLQDQKV
 LKKAGLAHSLQH LRGSGNTSKLLPAGHSVSGSLLMPGHEASSKDPNHSTALKVIESDTHRNTPTRRRKGR
 NKEIQDLEESFVPVAAPLGHPRELQKYSSDSESPRGTGSGALPSGQKLEELKAE EPNDFSSKVVQRGREF
 FDSNGNFLYRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033088

ORF Size: 873 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_001033088.3](#)

RefSeq Size: 1367 bp

RefSeq ORF: 876 bp

Locus ID: 51335

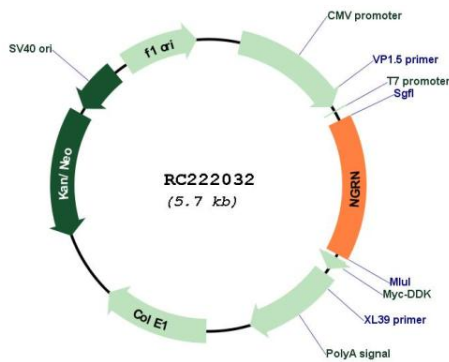
UniProt ID: [Q9NPE2](#)

Cytogenetics: 15q26.1

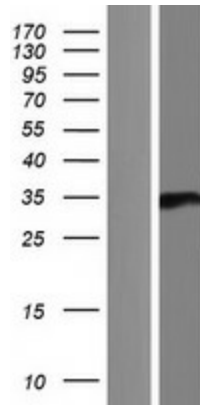
MW: 32.2 kDa

Gene Summary: Plays an essential role in mitochondrial ribosome biogenesis. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPU3D3, RPU3D4, 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]

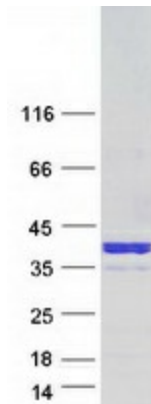
Product images:



Circular map for RC222032



Western blot validation of overexpression lysate (Cat# [LY422366]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222032 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NGRN protein (Cat# [TP322032]). The protein was produced from HEK293T cells transfected with NGRN cDNA clone (Cat# RC222032) using MegaTran 2.0 (Cat# [TT210002]).