

Product datasheet for SC302701

Neugrin (NGRN) (NM_001033088) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neugrin (NGRN) (NM_001033088) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neugrin
Synonyms:	DSC92
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302701 representing NM_001033088. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGTTACCCTGAGTCTCTTGTGGCGGGCGCGTTTGGCCGCCGCTCACTCGCTGTGGGTTTCGCG
ACCCGGGGGGTGGCGGGCCAGGCCCTATTGGCCGGGAGCCGGACCCGATTCCGACTGGGAGCCGGAG
GAACGGGAGCTGCAGGAGGTGGAGAGCACCCCTGAAACGACAGAAACAAGCAATCCGATCCAGAAAATT
CGGAGGCAATGGAGGCGCTGGTGCCCGCCAGGACCCTGACGTGGGAAGCCATGGAGCAGATACGG
TATTTACATGAGGAATTTCCAGAGTCTGGTCAGTCCCAGGTTGGCTGAAGGCTTTGATGTCAGCACT
GATGTGATCCGAAGATTTTAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGATCAA
AAAGTCCCTAAGAAAGCTGGGCTTGCCCACTCGCTGCAGCACCTCCGGGGCTCTGGAAATACCTCAAAG
CTGCTCCCTGCAGGCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGAC
CCAAATCACAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAGGAGAAGG
AAGGGAAGAAATAAGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCAT
CCAAGAGAGCTGCAGAAGTACTCCAGTATTCTGAGAGCCCCAGAGGAAGTGGCAGTGGTGCCTTGCCA
AGTGGTCAGAAGCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGG
GGCCGAGAGTTCTTTGACAGCAACGGGAAGTCTCTGTACAGAATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001033088
Insert Size:	876 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<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:	<u>NM_001033088.1</u>
RefSeq Size:	1367 bp
RefSeq ORF:	876 bp
Locus ID:	51335
UniProt ID:	<u>Q9NPE2</u>
Cytogenetics:	15q26.1
MW:	32.4 kDa
Gene Summary:	<p>Plays an essential role in mitochondrial ribosome biogenesis. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, 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]</p> <p>Transcript Variant: This variant (2) encodes the functional protein.</p>