

Product datasheet for RN208400

Ngrn (NM_001033900) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ngrn (NM_001033900) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ngrn
Synonyms:	Neugrin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208400 representing NM_001033900 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGCTGTCTCTGAGCCTTTTCTTGGGCGGTCTGTCCGCGCTGCTGTCGCTCGCTGTGGGTTTGCCTCCCAGGGCGTGGCGGGTCCGGTTCTATCAGCCGCGAGCCAGATCCCGATTCCGACTGGGAGCCGGAGGAGCGGAACTCCAGGAAGTGGAGAGCGCTTTGAAACGACAGAAAAAGCAATGCGATTCCAGAAAATTCGAGGCAAAATGGAGGCTCCAGGTGCCACCTAGAACACTGACATGGGAAGCCATGGAACAGATCCGGTATTACATAAGGAATTTGCAGAGTCTGGTCTCCAGTTCCAGGTTGGCAGAAGGCTTTGATGTCAGCACTGATGTATCCGAAGGGTTTTAAAAAGTAAAGTTTATACCCACTTTAGAGCAGAACTGAAGCAGGACAAAAGGCTCTTGAAAAAGCGGGGATTACCCGAGTGGTTTGGCAGCTCCCTGTTTCTGAAGATACGTTGAAGCCGCTCATGTGCAGGCCATCCTATGTCTGGCCCTCTGCTGATGCCAGGGGATGAAGTCTCCTCTAACAGTCAGACTCACAGCAGAGCTTTGAAAGTAAAGTCAAACGCTCCCAGCGCAGAGGCACAGAAGAAACGGGAAGAAAAGAAATAAAAGAATCCGAGTCTTGGCAGAAAGCCTGGTGCCTACCACCACAGCCTTGGGTCACTCAGAGAGAGCTTCAGAAATACACCACCCATGACTCTGAGGCTGACAGGAGAGCCAACAATCATATATTACCAAGTGTGGAGAAAGCTGGAAGAGTTGGAGGCTGGGAGCCAGGTGACCAGAACTTCAGCAGCAAAGTAGTACAGAAGGGGCGTGAGTTCTTGGACAGTAACGGAACTTCCCTACAGAATT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001033900
Insert Size:	882 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).
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_001033900.2</u> , <u>NP_001029072.2</u>
RefSeq Size:	1349 bp
RefSeq ORF:	882 bp
Locus ID:	499191
UniProt ID:	<u>Q3T1H2</u>
Cytogenetics:	1q31
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>