

Product datasheet for **SC108614**

GNL2 (NM_013285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNL2 (NM_013285) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNL2
Synonyms:	HUMAUANTIG; Ngp-1; NGP1; Nog2; Nug2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108614 sequence for NM_013285 edited (data generated by NextGen Sequencing)

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ATGGTGAAGCCCAAGTACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAAC
CCAGATCGAGTGCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGC
CTGAATATGTATAGGCAAAAGGAGCGCAGGAACAGTCGTGGTAAAATAATTAAACCCCTG
CAATATCAATCAACGGTGGCTTCTGGCACAGTGGCAAGAGTAGAGCCAAATATTAATGG
TTTGAAACACACGTGTGATTAAGCAGTCATCATTACAAAAATTTCAAGAGGAAATGGAT
ACAGTTATGAAGGATCCATACAAAGTTGTCATGAAGCAAAGCAAGTTACCAATGTCTCTT
CTCCATGATCGAATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTT
GAAACTACATTTGGCCCTAAGTCACAGAGGAAACGACCAAACTTATTTGCAAGTGATATG
CAGTCTCTTATCGAAAATGCTGAAATGTCCACTGAGAGCTATGACCAGGGCAAGGATCGT
GATTTGGTAACTGAAGACACTGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAAAAG
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GCACAAAGGGAAGAGGAACAGGAACATTCAAATAAAGCTCCAGGGCGCTTACATCAAAA
GAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAAGTTGGTGTGCGCTACTATGAA
ACACACAACGTGAAAAATAGGAACAGGAACAAAAAGAACCAATGACTCAGAGGGACAG
AAACACAAACGCAAAAAATTCAGACAAAAGCAGTAA

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Clone variation with respect to NM_013285.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013285 unedited
 GTCAAAATTTGTATACGACTCATATAGGGCGGCCGCAATTTCGCACGAGGGGTTTCAGGCG
 GGTGTCTTCGGCCGGGCTTGGGAACATAAAAGTTTGTTCACCACGTAAGCCGGACCTCG
 CACTCCGGTCCCCTGCTCGTCGCAAGATGGTGAAGCCCAAGTACAAAGGACGGAGCACC
 ATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAGTGCAGGGAGCAGGAGGCCAAAAC
 ATGAGGGACCGGGCCACCATCCGGCGCTGAATATGTATAGGCAAAAGGAGCGCAGGAAC
 AGTCGTGGTAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACAGTG
 GCAAGAGTAGAGCCAAATATTAATGGTTTGAAACACACGTGTGATTAAGCAGTCATCA
 TTACAAAAATTTCAAGAGGAAATGGATACAGTTATGAAGGATCCATACAAAGTTGTCATG
 AAGCAAGCAAGTTACCAATGTCTCTTCTCCATGATCGAATCCGGCCTCATAACTGAAG
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 GAGAGCTATGACCAGNGCAAGGATCGTGATTTGGTACTGAAGACACTGGTGTGAGAAATG
 AAGCTCAAGAAGAGATCTATAAAAGGGACAGTCCANAAGATATGGGGTGAGCTCTACAAG
 GTGATAGATTATCAGATGTTGTAGTTCAAGTTCTTGATGCTAGAGATTCCATGGGTACT
 CGNTCCCCTCACATTGAACTTACTCGAGAAGGAAAACCTGGGAACAACCTTTTTTGATC
 TAAACAATGTGACCTGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013285 unedited
 GGACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGTTTTGTATAATT
 TAATAAAAACCTTTTAAACATTACTGCTTTTGTCTGAATTTTTTGCCTTTGTGTTTCTGT
 CCCTCTGAGTCATTGGTCTTCTTTTGTCTCTGTTCTATTTTTACGTTGTGTGTTTCA
 TAGTAGCGCACACCAACTTTTTTCGGCCGTTGCTGTCGTAAGTCTGCTCGCTCCGTTCTTTT
 GATGTAAGCGCCCTGGGAGCTTTATTTGAATGTTCTCTCTCTTCCCTTTGTGCCTTC
 CGCTTCTTTCCCTTTTTGGAAGGTGCTCTGTCTACATCTTCTTCCAGTGTGTTTTCTT
 TGTTCTTCAGGTTTTGCAAAATCTTTTCACTCAGTCCCTTGGATATTCTGACTGCTGAA
 AACTTTTTGGCTTTGGCTTTGTCTAGAACTTCTGATATTTGGCAATCTTCTCATCCAGT
 GCTTTAATAACGGCTTTGGTGTCTGTTTCCACATTTTCTCCTCAGGCTCCGAGGAAGAC
 TCTTCCGCATCATCTCTTTGTTGCTCCTGTTCTCCTCTCTTATCAGAAAAGCTCTCA
 AGCTCTTCTCAAGATCTGACACCTCCACAGGAACAGGTCATCCCAGAAAAGTGAGGC
 ACCACGTTGATTTTACCAAAGTTCTGCCGAACCTGCTGTGAGAATCTGCTGCATCTCTGTG
 TTAGCATCACAGTGACTGGTCTCTTCTGTTTCTCCTTATGATGGATTCTGACCTTACC
 TGCAGTTTCTGTGACTTCTCCCTGGATGTTCTTGGCTGCTTCTGGGACAACTTNCCAA
 GATGAGAGGGTANAANCTGGGGGGCCACANTGGCTCTGCATTTGGTGGCTTGACAANAAA
 GGAATCCGCCCTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_013285

Insert Size:

2260 bp

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:	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_013285.1, NP_037417.1</u>
RefSeq Size:	2331 bp
RefSeq ORF:	2196 bp
Locus ID:	29889
UniProt ID:	<u>Q13823</u>
Cytogenetics:	1p34.3
Domains:	MMR_HSR1
Gene Summary:	GTPase that associates with pre-60S ribosomal subunits in the nucleolus and is required for their nuclear export and maturation (By similarity). May promote cell proliferation possibly by increasing p53/TP53 protein levels, and consequently those of its downstream product CDKN1A/p21, and decreasing RPL23A protein levels (PubMed:26203195).[UniProtKB/Swiss-Prot Function]