

Product datasheet for **RG200184**

GNL2 (NM_013285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNL2 (NM_013285) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNL2
Synonyms:	HUMAUANTIG; Ngp-1; NGP1; Nog2; Nug2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG200184 representing NM_013285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTGAAGCCCAAGTACAAAGGACGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAG
 TGCAGGGAGCAGGAGGCCAAACATGAGGGACCGGCCACCATCCGGCGCCTGAATATGTATAGGCAAAA
 GGAGCGCAGGAACAGTCGTGGTAAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACA
 GTGGCAAGAGTAGAGCCAAATATTAATGGTTTGGAAACACACGTGTGATTAAGCAGTCATCATTACAAA
 AATTTCAAGAGGAAATGGATACAGTTATGAAGGATCCATACAAAGTTGTCATGAAGCAAAGCAAGTTACC
 AATGTCTCTTCTCCATGATCGAATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTT
 GAAACTACATTTGGCCCTAAGTCACAGAGGAAACGACCAAACTTATTTGCAAGTGATATGCAGTCTCTTA
 TCGAAAATGCTGAAATGTCCACTGAGAGCTATGACCAGGGCAAGGATCGTGATTTGGTAAGTGAAGACAC
 TGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAAAAAGGGACAGTCCAAAAGAATATGGGGTGAGCTC
 TACAAGGTGATAGATTTCATCAGATGTTGTAGTTCAAGTTCCTTGATGCTAGAGATCCAATGGGTACTCGTT
 CCCCTCACATTGAACTTACCTGAAGAAGGAAAAACCTTGGAAACACCTCATTTTTGTACTTAACAAATG
 TGACCTTGTTCCAACTGGGCAACAAACGGTGGGTGCTGTCTCTCCAGGATTATCCAACACTTGCT
 TTCCATGCAAGCCTTACTAACCCTTTGGCAAGGGAGCATTATTCAGCTTCTGCGGCAGTTTGGAAAGT
 TGCACACTGACAAGAAACAGATCAGTGTGGGTTCATTGGCTATCCAATGTTGGCAAGAGCTCTGTGAT
 AAATACATTGCGTTCTAAGAAAGTTTGAACGTGGCTCCCATTGCAGGTGAAACAAAGGTCTGGCAGTAT
 ATTACTTTGATGCGTCGGATATTCCTGATTGACTGTCCAGGTGTGGTTTACCCCTCTGAGGACTCCGAGA
 CAGACATTGTGCTAAAAGGAGTTGTTCAAGTAGAAAAAATTAAGAGTCTGAAGACCACATTGGTGCTGT
 ACTTGAACGAGCAAAGCCAGAATATATCAGCAAAACATACAAGATTGATTCTTGGGAGAATGCTGAGGAC
 TTTCTTGAGAAGCTCGCTTTCCGACTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGG
 GTAAGATGGTCTCAATGACTGGCAGAGGGGCCGATTCTTTCTTTGTCAAGCCACCCAATGCAGAGCC
 ACTTGTGGCCCCCAGCTTCTACCCTCCTCATCTTTGGAAGTTGTCCAGAAGCAGCCAGAACAATCCA
 GGGGAGGAAGTCACAGAACTGCAGGTGAAGGGTCAGAATCCATCATTAAAGGAAGAAACAGAAGAGAACA
 GTCAGTGTGATGCTAACACAGAGATGCAGCAGATTCTCACACGAGTTCGGCAGAACTTTGGTAAATCAA
 CGTGGTGCCTCAGTTTTCTGGGGATGACCTGGTTCCTGTGGAGGTGTGAGATCTTGAGGAAGAGCTTGAG
 AGCTTTTCTGATGAAGAGGAGGAGGAACAGGAGCAACAAAGAGATGATGCGGAAGAGTCTTCCTCGGAGC
 CTGAGGAGGAAAATGTGGGAAACGACACCAAGCCGTTATTAAGCACTGGATGAGAAGATTGCCAATA
 TCAGAAGTTTCTAGACAAAGCCAAAGCCAAAAAGTTTTCAGCAGTCAGAATATCCAAGGGACTGAGTGAA
 AAGATATTTGCAAAACCTGAAGAACAAAGAAAAACACTGGAAGAAGATGTAGATGACAGAGCACCTTCCA
 AAAAGGGAAAGAGCGGAAGGCACAAAGGGAAGAGGAACAGGAACATTCAAATAAAGCTCCAGGGCGCT
 TACATCAAAAGAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAAGTTGGTGTGCGCTACTATGAA
 ACACACAACGTGAAAAATAGGAACAGGAACAAAAAGAAGACCAATGACTCAGAGGGACAGAAACACAAAC
 GCAAAAAATTGACACAAAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

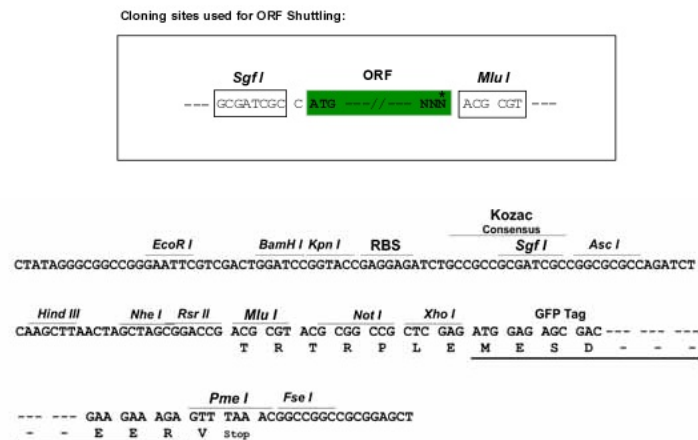
Protein Sequence: >RG200184 representing NM_013285
 Red=Cloning site Green=Tags(s)

MVKPKYKGRSTINPSKASTNPDRVQGAGGQNMRRATIRRLNMYRQKERNNSRGKIIKPLQYQSTVASGT
 VARVEPNIKWFGNTRVIKQSSLQKFQEEMDTVMKDPYKVMKQSKLPMSLLHDIRPHNLKVHILDTESF
 ETTFGPKSQKRPNLFASDMQSLIENAEMSTESYDQGDRLVTDGTGRNEAQEEIYKKGQSKRIWGEL
 YKVIDSSDVVVQVLDARDPMGTRSPHIETYLKKEKPWKHLIFVLNKC DLVPTWATKRWVAVLSQDYPTLA
 FHASLTNPFKGAFIQLLRQFGKLHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVWQY
 ITLMRRIFLIDCPGVVYPSSETDIVLKGVVQVEKIKSPEDHIGAVLERAKPEYISKTYKIDSWENAED
 FLEKLAFTGKLLKGGEPDLQTVGKMLNDWQGRIPFFVKPPNAEPLVAPQLLPSSSLEVPEAAQNNP
 GEEVTETAGEGSEIIKEETEENSHCDANTEMQQILTRVRQNFVKINVPQFSGDDLVPVEVSDLEEELE
 SFSDEEEEEQEQQRDDAEESSEPEEENVGNDTKAVIKALDEKIAKYQKFLDKAKAKKFSAVRISKGLSE
 KIFAKPEEQRTLEEDVDDRAPSCKGKKRKAQREEEQEHSNKAPRALTSKERRRAVRQRPKKVGVRYYE
 THNVKNRNRNKKKTNDSEGQKHKKFRQKQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013285

ORF Size: 2193 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_013285.3](#)

RefSeq Size: 2419 bp

RefSeq ORF: 2196 bp

Locus ID: 29889

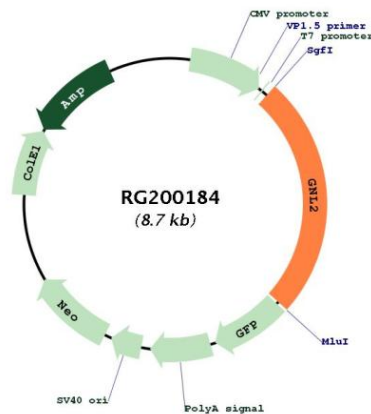
UniProt ID: [Q13823](#)

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]

Product images:



Circular map for RG200184