

Product datasheet for **RG221732**

Cyclin G (CCNG1) (NM_004060) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin G (CCNG1) (NM_004060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyclin G
Synonyms:	CCNG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221732 representing NM_004060 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAGAGGTAAGTACAACTGACTCTCAGAACTGCTACACCAGCTGAATGCCCTGTTGGAACAGG
AGTCTAGATGTCAGCCAAAGGTCTGTGGTTTGAGACTAATTGAGTCTGCACACGATAATGGCCTCAGAAT
GACTGCAAGACTAAGGGACTTTGAAGTAAAGATCTTCTTAGTCTAACTCAGTTCTTTGGCTTTGACACA
GAGACATTTTCTAGCTGTGAATTTACTGGACAGATTCCTGTCTAAAATGAAGGTACAGCCCAAGCACC
TTGGGTGTGTTGGACTGAGCTGCTTTTATTTGGCTGTAAAATCAATAGAAGAGGAAAGGAATGTCCCAT
GGCAACTGACTTGATCCGAATAAGTCAATATAGGTTTACGGTTTCAGACTTGATGAGAATGGAAAAGATT
GTATTGGAGAAGGTGTGTTGAAAGTCAAAGCTACTACTGCCTTTCAATTTCTGCAACTGTATTATTCAC
TCCTTCAAGAGAAGTGGCACTTCAAAGGAGAAAATAGCATTAAATTTGAAAGACTAGAAGCTCAACTGAA
GGCATGTCATTGCAGGATCATATTTCTAAAGCAAAGCCTTCTGTGTTGGCATTGTCTATCATTGCATTA
GAGATCCAAGCACAGAAGTGTGTAGAGTTAACAGAAGGAATAGAATGTCTTCAGAAACATTCCAAGATA
ATGGCAGAGATCTGACCTTCTGGCAAGAGCTTGTATCAAATGTTAACTGAATATTCATCAAATAAGTG
TTCAAACCAAATGTTTCAAAGTTGAAATGGATTGTTTCTGGCGTACTGCACGGCAATTGAAGCATAGC
TACTACAGAATAACTCACCTTCCAACAATTCCTGAAATGGTCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221732 representing NM_004060
 Red=Cloning site Green=Tags(s)

MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLLSLTQFFGFDT
 ETFSLAVNLLDRFLSKMKVQPKHLGCVGLSCFYLAVKSIIEERNVPLATDLIRISQYRFTVSDLRMEKI
 VLEKVCWKVKATTAFQLQLYSSLQENLPLERRNSINFERLEAQLKACHCRIIFSKAKPSVLALSIAL
 EIQAQKCVELTEGIECLQKHSKINGRDLTFWQELVSKCLTEYSSNKCSKPNVQKLKWIVSGRTARQLKHS
 YRITHLPTIPEMVP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004060

ORF Size: 885 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_004060.4](#)

RefSeq Size: 2484 bp

RefSeq ORF: 888 bp

Locus ID: 900

UniProt ID: [P51959](#)

Cytogenetics: 5q34

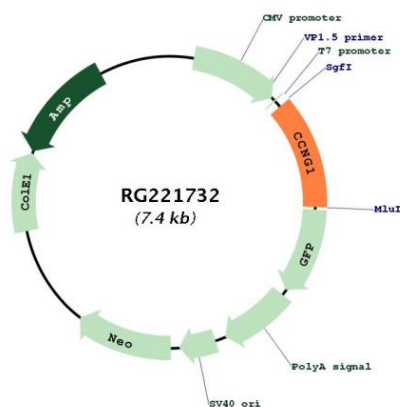
Domains: CYCLIN, cyclin

Protein Families: Druggable Genome

Protein Pathways: p53 signaling pathway

Gene Summary: The eukaryotic cell cycle is governed by cyclin-dependent protein kinases (CDKs) whose activities are regulated by cyclins and CDK inhibitors. The protein encoded by this gene is a member of the cyclin family and contains the cyclin box. The encoded protein lacks the protein destabilizing (PEST) sequence that is present in other family members. Transcriptional activation of this gene can be induced by tumor protein p53. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221732