

Product datasheet for **MR217821**

Gnl3l (NM_198110) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnl3l (NM_198110) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnl3l
Synonyms:	BC020354
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217821 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGAAGATTAGACACAAAAACAAAAACCAGGTAAGGTTCCAAAGGCTGTAAGAAGCCTGCAAGGC
 AAAATGGGAAGAAAGTAACCTCCAGACCATCATCTGCTCCCAGATTGTTTCATGGCAATGACCATGCCAG
 TCGCGAGGCCGAATTAAGAAGAAAAAGGTCGAGGAGATGAGGGAGAAGCAGCAAGTTGCCCGGAGCAA
 GAGAGACAGACACAGGACCATGGAGAGCTATTGTCAGGATGTCCTGAAACGTCAGCAGGAATTTGAAC
 AAAAGGAGGAAGTTTTCAGGAATTAACATGTTTCTCAGTTGGATGATGAGGCCACAAGGAAGGCCTA
 TTACAAGGAATTCGGAAGGTGGTAGAGTACTCTGATGTGATTCTGGAAGTCTAGATGCCAGAGACCCA
 TTGGGCTGCCGCTGTTCCAGATGGAGGAGACTGCTTTCGTGCAGAAGGCAACAAGAAGCTGGTCTTGG
 TCTTAAATAAGATAGATCTCGTCCCAAGGAGATTGTGGAAAAGTGGCTGGAATACCTTCTCAATGAACT
 GCCAAGTGTGGCTTTCAAGGCCAGCACCCAGCATCATCAGGTCAAAAACCTTGACTCGTTGTAAGTTCCA
 GTGGACCAGGCCCTCTGAGTCGCTTTTAAAAGCAGAGCCTGCTTTGGAGCCGAAAATCTCATGAGGGTCC
 TGGGGAATATTGTCGCCTGGGGGAAGTGCCTGGCCACATTTCGTGTGGGTGTTGTAGGCCTTCCCAATGT
 GGGGAAGAGCAGTCTGATCAATAGCCTGAAGCGCAGCCGTGCTTGTAGTGTGGGAGCTGTTCTGGTGTG
 ACAAAATTCATGCAGGAGGTCTACCTAGACAAGTTTATCAGGCTTCTGGATGCACCAGGCATTGTCCAG
 GACCAATTCAGAGGTGGCACCATCCTGCGTAATTGCATCCATGTGCAGAAGCTGGCAGACCCTGTGAC
 CCCGGTGGAGACCATCCTCAGCGCTGCAACCTGGAGGAGATTTCCAGCTACTATGGTGTATCTGGATTC
 CAGACGACTGAGCACTTTCTGACTGCAGTGGCCATCGCTTGGAAAGAAGAAGAAGGAGGTGTATATA
 GTCAGGAACAGGCTGCCAAGCTGTGCTGGCTGACTGGGTGAGTGGGAAGATCAGTTCTATACACTACC
 ACCGCCACTCACACTCTGCCACCCATCTCAGTGTGAGATTGTTAAGGAGATGACTGAGGTCTTTGAT
 ATAGAAGATACTGAGCACGCAATGAAGACCCATGGAATGCTTAGCTGTGGGAGAAATCCGATGAGCTGT
 TGGGTGACATGGACCCACAAGAAATGGAGGTGAGTGGCTCCATTCTCCACTGGTAAAAATAGCAGATGC
 TATTGAAATAGAAGCACCGTGTATAAGATTGAAATCTCACTGGGTATTGTACCAAACCAACCCTAAT
 CAGATGGGTGGCTAAACGCAATGTGGACCACCATGCCCCAAAATAACCGTGTAGTAGAGGTGAGTT
 CTGTGGACCGCCCGATGTTGCAGAGGATCCTGGAGACAGACCACCTCAGCAAGGCCAGGCTCTGGC
 ATCTGCCTTGAAGAATAAGAAAAAATTGCAGAAGCGTTTCAGATAAAATCGCCACTAAGTTGTCTGACTCC
 ATGATGTCCATGCTTGACCTCTCTGGAACTCCGATGACTGTGCAGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217821 protein sequence
 Red=Cloning site Green=Tags(s)

MMKIRHKNKKPGKGSKGCKKPARQNGKVKTSRPSSAPQIVHGNDHASREELKKRVEEMREKQQVAREQ
 ERQRHRTMESYQDVLKRQQEFEQKEEVLQELNMFQLDDEATRKAYYKEFRKVVEYSVILEVLDARDP
 LGCRCFQMEETVLAEGNKKLVVLNKLIDLPKEIVEKWLEYLLNELPTVAFKASTQHHQVKNLTRCKVP
 VDQASESLLKSRACFGAENLMRVLGNYCRLGEVRGHIRVGVVGLPNVGKSSLINSLKRSRACSVGAVPGV
 TKFMQEVYLDKFIIRLLDAPGIVPGPNSEVGTILRNCIHVQKLADPVTPVETILQRCNLEEISSYYGVSGF
 QTTEHFLTAVAHRLGKKKGGVYSQEQAAKAVLADWVSGKISFYTLPPPHTLPLTHLSAEIVKEMTEVFD
 IEDTEHANEDTMECLAVGESDELLGDMDPQEMEVRLHSPLVKIADAIENRSTVYKIGNLTGYCTKPNRN
 QMGWPKRNVDDHCPQNNRVVEVSSVDRRPMQLRILETDPQQQALASALKNKKKLQKRSDKIATKLSDS
 MMSMLDLSGNSDDCAGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_198110

ORF Size: 1734 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_198110.2](#), [NP_932778.1](#)
RefSeq Size: 4877 bp

RefSeq ORF: 1734 bp

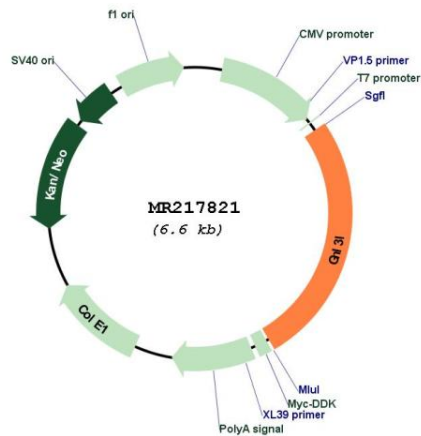
Locus ID: 237107

UniProt ID: [Q6PGG6](#)
Cytogenetics: X F3

MW: 65.2 kDa

Gene Summary: Stabilizes TERF1 telomeric association by preventing TERF1 recruitment by PML. Stabilizes TERF1 protein by preventing its ubiquitination and hence proteasomal degradation. Does so by interfering with TERF1-binding to FBXO4 E3 ubiquitin-protein ligase. Required for cell proliferation. By stabilizing TRF1 protein during mitosis, promotes metaphase-to-anaphase transition. Stabilizes MDM2 protein by preventing its ubiquitination, and hence proteasomal degradation. By acting on MDM2, may affect TP53 activity. Required for normal processing of ribosomal pre-rRNA. Binds GTP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217821