

Product datasheet for **MG218846**

Gnl3l (NM_001168600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnl3l (NM_001168600) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnl3l
Synonyms:	BC020354
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218846 representing NM_001168600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGAAGATTAGACACAAAAACAAAAACCAGGTAAGGTTCCAAAGGCTGTAAGAAGCCTGCAAGGC
 AAAATGGGAAGAAAGTAACCTCCAGACCATCATCTGCTCCCAGATTGTTTCATGGCAATGACCATGCCAG
 TCGCGAGGCCGAATTAAGAAGAAAAAGGTCGAGGAGATGAGGGAGAAGCAGCAAGTTGCCCGGAGCAA
 GAGAGACAGACACAGGACCATGGAGAGCTATTGTCAGGATGTCCTGAAACGTCAGCAGGAATTTGAAC
 AAAAGGAGGAAGTTTGCAGGAATTAACATGTTTCTCAGTTGGATGATGAGGCCACAAGGAAGGCCTA
 TTACAAGGAATTCGGAAGGTGGTAGAGTACTCTGATGTGATTCTGGAAGTCTAGATGCCAGAGACCCA
 TTGGGCTGCCGCTGTTTCCAGATGGAGGAGACTGCTTTCGTGCAGAAGGCAACAAGAAGCTGGTCTTGG
 TCTTAAATAAGATAGATCTCGTCCCAAGGAGATTGTGAAAAGTGGCTGGAATACCTTCTCAATGAACT
 GCCAACTGTGGCTTCAAGGCCAGCACCCAGCATCATCAGGTCAAAAACCTTGACTCGTTGTAAGTTCCA
 GTGGACCAGGCCCTCTGAGTCGCTTTTAAAAGCAGAGCCTGCTTTGGAGCCGAAAATCTCATGAGGGTCC
 TGGGGAATATTGTCGCCTGGGGGAAGTGCCTGGCCACATTTCGTGTGGGTGTTGTAGGCCTTCCCAATGT
 GGGGAAGAGCAGTCTGATCAATAGCCTGAAGCGCAGCCGTGCTTGTAGTGTGGGAGCTGTTCTGGTGTG
 ACAAAATTCATGCAGGAGGTCTACCTAGACAAGTTTATCAGGCTTCTGGATGCACCAGGCATTGTCCAG
 GACCAATTCAGAGGTGGCACCATCCTGCGTAATTGCATCCATGTGCAGAAGCTGGCAGACCCTGTGAC
 CCCGGTGGAGACCATCCTCAGCGCTGCAACCTGGAGGAGATTTCCAGCTACTATGGTGTATCTGGATTC
 CAGACGACTGAGCACTTCTGACTGCAGTGGCCCATCGCTTGGAAAGAAGAAGAAGGAGGTGTATATA
 GTCAGGAACAGGCTGCCAAAGCTGTGCTGGTACTGGGTGAGTGGGAAGATCAGTTCTATACACTACC
 ACCGCCCACTCACACTCTGCCACCCATCTCAGTGTGAGATTGTTAAGGAGATGACTGAGGTCTTTGAT
 ATAGAAGATACTGAGCACGCCAATGAAGACACCATGGAATGCTTAGCTGTGGGAGAAATCCGATGAGCTGT
 TGGGTGACATGGACCCACAAGAAATGGAGGTGAGTGGCTCCATTCTCCACTGGTAAAAATAGCAGATGC
 TATTGAAATAGAAGCACCGTGTATAAGATTGAAATCTCACTGGGTATTGTACCAAACCAACCCTAAT
 CAGATGGGGTGGCCTAACGCAATGTGGACCACCATGCCCCAAAATAACCGTGTAGTAGAGGTGAGTT
 CTGTGGACCGCCCGGATGTTGCAGAGGATCCTGGAGACAGACCCTCAGCAAGGCCAGGCTCTGGC
 ATCTGCCTTGAAGAATAAGAAAAAATTGCAGAAGCGTTTCAGATAAAATCGCCACTAAGTTGTCTGACTCC
 ATGATGTCCATGCTTGACCTCTCTGGCAACTCCGATGACTGTGCAGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218846 representing NM_001168600
 Red=Cloning site Green=Tags(s)

MMKIRHKNKPKGKSGKCKKPARQNGKVKTSRPSAPQIVHGNHASREAEKPKRVEEMREKQQVAREQ
 ERQRHRTMESYQDVLKRQQEFEQKEEVLQELNMFQLDDEATRKAYYKEFRKVVVEYSVILEVL DARDP
 LGCRFQMEETVLR AEGNKKLV LNKIDLPKEIVEKWLEYLLNELPTVAFKASTQHHQVKNL TRCKVP
 VDQASELLKSRACFGAENLMRVLGNYCRLGEVRGHIRVGVVGLPNVGKSSLINSLKRSRACSVGAVPGV
 TKFMQEVYLDKFI RLLDAPGIVPGPNSEVGTILRNCIHVQKLADPVTPVETILQRCNLEEISSYYGVSGF
 QTTEHFLTAVAHRLGKKKGGVYSQEQAAKAVLADWVSGKISFYTLPPPTHLPHTLSAEIVKEMTEVFD
 IEDTEHANEDTMECLAVGESDELLGDMDPQEMEVRWLSPLVKIADAIENRSTVYKIGNLTGYCTKPNRN
 QMGWPKRNVDDHCPQNNRVVEVSSVDRRPLQRILETDPLQGGQALASALKNKKKLQKRSDKIATKLSDS
 MMSMLDLSGNSDDCAGD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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:	<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:	NM_001168600.1 , NP_001162071.1
RefSeq Size:	4844 bp
RefSeq ORF:	1734 bp
Locus ID:	237107
UniProt ID:	Q6PGG6
Cytogenetics:	X F3
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]