

Product datasheet for **MG201080**

Nudt16l1 (BC025569) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nudt16l1 (BC025569) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nudt16l1
Synonyms: 1110001K21Rik; 5330437I08Rik; Sdos
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201080 representing BC025569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGACCACGACGGTTCGGAGCTGAAACAGATCAGTCGGGAGGAAGCAATGCGCTTGGGGCCCGCT
 GGAGTCATTCATGCCACGCCATGCTATACGCCCAACCCGGGAGCTTTTCGGACGTATCCCATGCG
 TTTCTCAGTGCTGATGCAGATGCGCTTCGACGGGCTGCTAGGCTTCCCGGGGTTTCGTGGACCGGCGC
 TTCTGGTCGCTGGAGGATGGCTGAATCGGGTGTGGCCTGGGCTGGGCGGCTACGCCTACCGAAG
 CTGATTACCTGAGTTCACACCTGACTGAGGGTCCACACCGTGTGGTGGCACATCTGTACGCACGGCAGCT
 GACATTGGAACAACGATGCTGTGGAGATCAGCGCTGTGCACTACGGGACCACGGTCTGGAGGTGGG
 CTA**CTGCCTGGGGCCCGCCCCATTCCCACTCC**

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201080 representing BC025569
 Red=Cloning site Green=Tags(s)

MSTTTVPELKQISREEAMRLGPGWWSCHAMLYAANPGQLFGRIPMRFVLMQMRFDGLLGFPGGFVDRR
 FWSLEDGLNRVLGLGLGLRLTEADYLSHLETEGPHRVVAHLYARQLTLEQLHAVEISAVHSRDHGLEVG
 LLPGARPHSHS

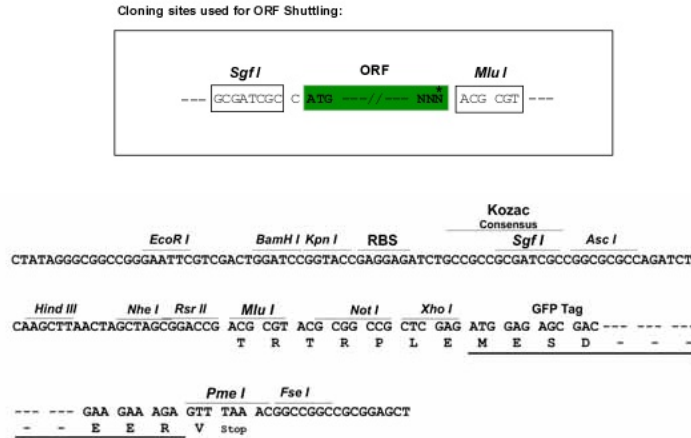
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

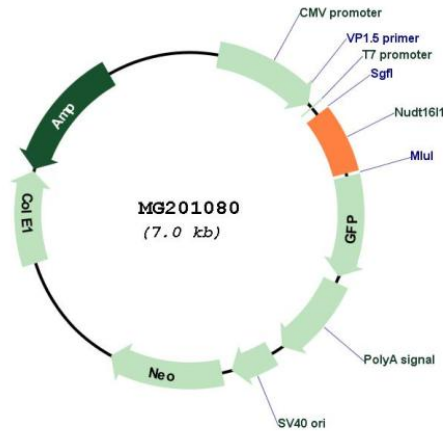


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Cloning Scheme:



Plasmid Map:



ACCN: BC025569

ORF Size: 455 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:	<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:	<u>BC025569</u> , <u>AAH25569</u>
RefSeq Size:	1354 bp
RefSeq ORF:	455 bp
Locus ID:	66911
Cytogenetics:	16 2.48 cM
Gene Summary:	Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to chromatin. In absence of DNA damage, interacts with the tandem Tudor-like domain of TP53BP1, masking the region that binds histone H4 dimethylated at 'Lys-20' (H4K20me2), thereby preventing TP53BP1 recruitment to chromatin and maintaining TP53BP1 localization to the nucleus. Following DNA damage, ATM-induced phosphorylation of TP53BP1 and subsequent recruitment of RIF1 leads to dissociate NUDT16L1/TIRR from TP53BP1, unmasking the tandem Tudor-like domain and allowing recruitment of TP53BP1 to DNA double strand breaks (DSBs). Binds U8 snoRNA.[UniProtKB/Swiss-Prot Function]