

## Product datasheet for **MG218534**

### Nucks1 (NM\_001145804) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nucks1 (NM\_001145804) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nucks1  
**Synonyms:** 2700010L10Rik; 8430423A01Rik; A1647518; C78391; Nucks  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218534 representing NM\_001145804  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTCTCGGCCTGTCAGAAATAGGAAGTTGTGGATTACTCTCAGTTTCAGGAATCAGATGATGCAGATG  
 AAGATTATGGAAGAGATTCAGGCCCTCTGCTAAGAAGATTCGGTCATCTCCCGAGAGGCTAAAAATAA  
 GAGGCGATCTGGAAAAATTCACAAGAAGACAGTGAAGACTCAGAAGAAAAAGATGTGAAGACCAAGAAG  
 GATGATTCTCACTCGGCAGAAGACAGCGAAGATGAAAAAGATGATCATAAAAATGTACGCCAGCAACGAC  
 AGGCAGCATCTAAGCAGCTTCTAAGCAGAGAGAGATGCTCTTGAAGATGTTGGCAGCGAGGAAGAGCC  
 GGAAGAAGATGATGAGGCGCCATTCCAGGAGAAAGATTCTGGCAGCGATGAAGATTTCTAATGGAAGAC  
 GACGATGATAGTGATTATGGCAGTTCAAAAAAGAAAAACAAAAAGATGGTTAAGAAGTCCAAACCTGAGA  
 GAAAAGAAAAGAAAATGCCCAAACCCAGACTAAAGGCAACAGTGACGCCAAGTCCAGTGAAGGCAAAGC  
 GAAAGTGGGTCGCCCCACAGCTTCGAAGAAATCAAAGGAAAAAACTCCTTCTCCCAAAGAAGAGGATGAG  
 GAAGCAGAAAGCCCTCCAGAAAAGTCCGGAGACGAAGGGTCCGAGGATGAAGCCTCATCTGGGGAAG  
 AT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218534 representing NM\_001145804  
 Red=Cloning site Green=Tags(s)

MSRPVNRKVVVDYSQFQESDDADEDYGRDSGPPAKKIRSSPREAKNKRSGKNSQDESEDSEEKDVKTKK  
 DDSHSAEDSEDEKDDHKNVRQQRQAASKAASKQREMLLEDVGSEEEPEEDDEAPFQEKDSGSDDFLMED  
 DDDSDYGSKKNKMKVKKSKPERKEKKMPKPRLKATVTPSPVKGKAKVGRPTASKKSKEKTPSPKEEDE  
 EAESPPEKKSDEGESEDEASSGED

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145804

**ORF Size:** 699 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\\_001145804.1](#), [NP\\_001139276.1](#)

**RefSeq Size:** 6093 bp

**RefSeq ORF:** 702 bp

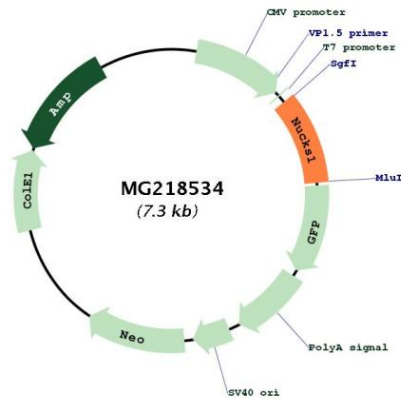
**Locus ID:** 98415

**UniProt ID:** [Q80XU3](#)

**Cytogenetics:** 1 E4

**Gene Summary:** Chromatin-associated protein involved in DNA repair by promoting homologous recombination (HR). Binds double-stranded DNA (dsDNA) and secondary DNA structures, such as D-loop structures, but with less affinity than RAD51AP1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG218534