

## Product datasheet for **MG202131**

### Polr3h (NM\_030229) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Polr3h (NM\_030229) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Polr3h  
**Synonyms:** 5031409G22Rik; RPC8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202131 representing NM\_030229  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTGCTGGTGGAGATGGTGGACACCGTCCGCATACCCCCGTGGCAGTTTGAGCGGAACTCAACG  
ATTCCATTGCTGAGGAGCTGAACAAGAAATTGGCCAACAAGGTCGTATACAACGTGGGACTCTGCATCTG  
TCTGTTTGATATACCAAGCTGGAGGACGCTATGTGTTCCAGGGGATGGAGCATCCACACCAAAGTC  
CATTTCCGCTACGTGGTGTTCACCCCTCCTGGATGAGATCCTATTGGGAAGATCAAAGGCTGCAGCC  
CAGAGGGTGTGCACGTCTCTTAGGGTCTTTGATGACATTCTCATCCCCCTGAGTCACATGCAGCAGCC  
TGCCAAGTTTGATGAAGCGGAGCAAGTGTGGGTGTGGGAGTACGAGACGGAGGAAGGAGCGCATGACCTG  
TACATGGACACTGGGAGGAGATCCGCTTCAGGGTGGTGGATGAGAGCTTTGTTGGACACATCCCCACAG  
GACCCAGTTCCGCCGAGGCTGCCTCTTCAAGCGAGGAGCTGCCAAGAAGGAAGCACCATATACACTTGT  
GGGATCTATCAGTGAGCCAGGACTAGGCCTTCTCTCTGGTGGACGAGCAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202131 representing NM\_030229  
Red=Cloning site Green=Tags(s)

MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYVGLCICLFDITKLEDAYVFPDGDASHTKV  
HFRYVVFHPFLDEILIGIKGCSPEGVHVS LGFFDDILIPPELQPAKFDEAEQVWWEYETEAGHDL  
YMDTGEEIRFRVDESFDVTSPTGPSSAEAAASSEELPKKEAPYTLVGSISEPGLGLLSWWTSN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

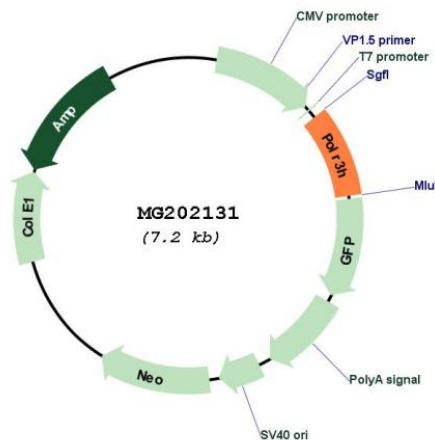


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_030229

ORF Size: 612 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\\_030229.4](#), [NP\\_084505.2](#)

**RefSeq Size:** 2515 bp

**RefSeq ORF:** 615 bp

**Locus ID:** 78929

**UniProt ID:** [Q9D2C6](#)

**Cytogenetics:** 15 E1

**Gene Summary:** DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNA. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity). [UniProtKB/Swiss-Prot Function]