

Product datasheet for **MG204539**

Polr3f (NM_029763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr3f (NM_029763) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Polr3f
Synonyms:	2810411G20Rik; 3010019O03Rik; 3110032A07Rik; RPC6; RPC39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204539 representing NM_029763 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGTGAAGGTGAAGGTGCAGCCCGGACGCGGATCCGGTGGAGATAGAAAACAGAATTATAG
AATTATGCCACCAGTTCCTCATGGAATCACAGATCAAGTAATTCAGAACGAAATGCCTCACATTGAAGC
CCAGCAGCGGGCAGTGGCCATCAATAGACTGTTATCCATGGGTCAGTTGGATCTTTAAGGAGTAATACA
GGCCTCTTATATAGAATAAAGGATTCTCAGAATGCTGGTAAAATGAAGGGTCCGATAACCAGGAAAAAC
TGGTCTATCAAAATCATAGAGGATGCAGGAATAAAGGAATATGGAGCAGAGATATTCGGTACAAAAGTAA
CTTGCCGTTAACAGAAATCAACAAAATTCTCAAGAATTTGGAAAAGTAAAAGCTAATTAAGCCGTGAAG
TCTGTAGCAGCTTCCAAAAGAAGGTTTATATGCTCTATAACCTGCAGCCAGACCGATCTGTGACTGGCG
GTGCCCTGGTACAGTGACCAGGATTTTGAATCTGAATTTGTTGAGGTGCTTAATCAACAGTGTTCAAATT
CCTACAAAGCAAGGCAGAGACAGCAAGAGAAAAGTAAACAGAAATCCAGTGATACAAAGAAATAGTTCATTT
GCATCGTCACATGAAGTCTGGAAGTACATCTGTGAGCTGGGCATCAGCAAGGTAGAGTTGCCATGGAGG
ACATTGAAACCATCTTGAACACACTCATTTATGATGGCAAAGTGGAGATGACTATCATTGCTGCGAAGGA
AGGCACGTGGCAGCGTAGATGGACACATGAACTGTACAGGGCAGTCAACCAATCCTCCACCTACA
GGCGTGGTCCGGGCACCCTGTGGACTCTGCCCGTTTTTGAGGACTGCCATGAAGGTGGTGAATTCGC
CGTCTAATTGTATTTACATGACCGAGTGGCTTGAATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204539 representing NM_029763
 Red=Cloning site Green=Tags(s)

MAEVKVKVQPPDADPVEIENRIELCHQFPHGITDQVIQNEMPHIEAQQRAVAINRLLSMGQLDLLRSNT
 GLLYRIKDSQNAGKMKGSDNQEKL VYQI IEDAGNKGIWSRDIRYKSNLPLTEINKILKNLESKLIKAVK
 SVAASKKKVYMLYNLQPD RSVTGGAWYSDQDFESEFVEVLNQCFKFLQSKAETARESKQNPVIQRNSSF
 ASSHEVWKYICELGISKVELSMEDIETILN TLIYDGKVENTIIAAKEGT VGSVDGHMKLYRAVNPILPPT
 GVV RAPCGLCPVFEDCHEGGEISPSNCIYMTWLEF

TRTRPLE - GFP Tag - V

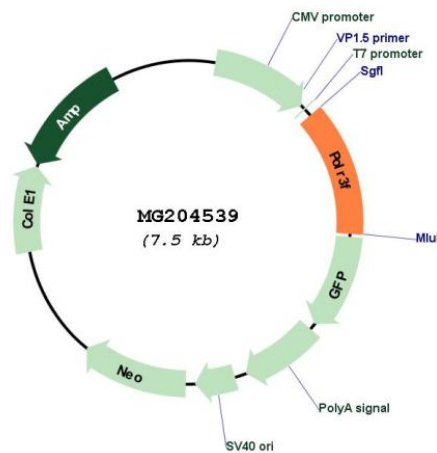
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029763

ORF Size: 948 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:	NM_029763.2
RefSeq Size:	4160 bp
RefSeq ORF:	951 bp
Locus ID:	70408
UniProt ID:	Q921X6
Cytogenetics:	2 G1
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 tRNAs. May direct RNA Pol III binding to the TFIIIB-DNA complex. 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). Preferentially binds double-stranded DNA (dsDNA) (By similarity).[UniProtKB/Swiss-Prot Function]