

## Product datasheet for **MG208353**

### Prpf4 (NM\_027297) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prpf4 (NM_027297) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prpf4
Synonyms:	1600015H11Rik; AI874830; AW047464; bN189G18.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208353 representing NM\_027297  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCTCCTCAGAGCCTCCTCCACGACAACCAAACAAAGCGCCTGACGATTTAGTTGCTCCCGTTG  
 TGAAGAAACCACACATCTACTATGGAAGCTTGAAGAGAAAGAGCGGAAACGCCTGGCCAAAGGAGAGTC  
 TGGGATTTTGGGAAAAGAAGGACTCAAAGCCGGCATTGAAGCAGGAAATATTAATAATAACATCCGAGAA  
 GTGTTTGAATTGAGGAGCACATCAGTGAAGCGGAGGAGGAGTCTTGGCAGAGTTTGAAGAAGAAAGC  
 GAGCCCGGAGATCAATGTTTCCACAGATGACTCAGAGGTCAAGGCTTGCCTTCGAGCCTGGGAGAGCC  
 TATCACGCTTTTGGAGAGGGCCCTGCTGAACGAAGAGAAAGTTAAGAAATATTCTCAGTGGTCGGG  
 ACTGATGCCTTAAAAAGACGAAAAAGATGATGAAAAGTCTAAGAAAGTCAAAGGAGGAGTATCAGCAA  
 CCTGGTACCATGAAGGGCCAAATAGCCTGAAGGTGGCCAGATTGTGGATTGCTAATTATTACTCCCGAG  
 GGCAATGAAACGCTTAGAGGAGGCCGCTCCATAAGGAGATTCTGAGACAACCAGAACCTCCAGATG  
 CAGGAGCTGCACAAGTCTCTCCGGTCTTGAATAATTTCTGCAGTCAGATTGGAGATGACCGGCCGATCT  
 CCTACTGCCACTTCAGCCCAATTCTAAAATGCTAGCCACAGCTTGTGGAGTGGGCTTTCAGAGCTCTG  
 GTCTGTCCCTGACTGCAGCCTCCTTCACTCTTCGAGGCCATAACAAAATGTAGGAGCAATTGTATTC  
 CATCCCAATCCACTGTCTCGTTGGACCAGAAGGATGTCAACCTGGCCTCTTGTGCTGCTGATGGTTCTG  
 TGAAGCTTTGGAGCCTTGACAGCGATGAACCAAGTGGCAGATATTGAAGGCCATACAGTGCCTGTAGCTCG  
 GGTAATGTGGCATCCATCAGGGCGTTTCTGGGCACAACCTGTTATGACCGTTTATGGCGCTTATGGGAT  
 TTAGAGGCTCAAGAGGAGATCCTGCACCAGGAAGGCCACAGCATGGGTGTGTATGACATTGCCCTCCATC  
 AAGATGGCTCTTTGGCTGGCACTGGGGGACTGGATGCATTTGGCCGGGTTTGGGACCTACGACAGGACG  
 CTGCATTATGTTCTGGAAGGCCACCTGAAGGAAATCTATGGGATAAATTTAGCCCAATGGCTACCAC  
 ATTGCCACTGGCAGTGGTGACAACCTGCAAAGTGTGGGACCTTCGGCAGCGACGCTGTGTCTACACCA  
 TCCCGGCCATCAGAACTTAGTGACCGGTGCAAATTTGAGCCTATCCATGGGGACTTCTTGCTCACAGG  
 TGCCTATGACAATACAGCCAAGATCTGGACCCACCCAGGCTGGTCCCACTGAAGACCCTGGCTGGTCAT  
 GAGGGCAAAGTATGGGCTGGACATTTCTTCTGATGGGCAGCTCATAGCCACGTGCTCCTATGACAGAA  
 CCTTCAAGCTCTGGATGGCAGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208353 representing NM\_027297  
 Red=Cloning site Green=Tags(s)

MASSRASSTTTTKAPDDL VAPVVKPHIYYGSLEEKERERLAKGESGILGKEGLKAGIEAGNINITSGE  
 VFEIEEHSERQAEVLAEFERRKRARQINVSTDDSEVKACLALGEPITLFGGPAERRERLRNLSVVG  
 TDALKKTKDDEKSKKSKEEYQQTWYHEGPNLKVARLWIANYSLPRAMKRLLEEARLHKEIPETTRTSQM  
 QELHKSLRSLNFCQSIGDDRPISYCHFSPNSKMLATAWGLCKLWSVPDCSLHLRGHNTNVGAI V  
 HPKSTVSLDQKDVNLASCAADGSVKLWLSLDSDEPVADIEGHTVVRVARVMWHPSGRFLGTTTCYDRSWRLWD  
 LEAQEEILHQEGHSMGVYDIAFHQDGLAGTGGLDAGFRVWDLRTGRCIMFLEGLHKEIYGINFSPNGYH  
 IATGSGDNTCKVWDLRQRRVYTI PAHQNLVTGVKFEI HGFLLTGAYDNTAKI WTHPGWSPLKTLAGH  
 EGKVMGLDISSDGLIATCSYDRTFKLWMAE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

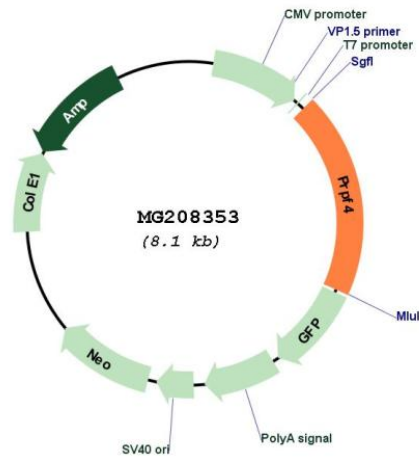
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_027297
<b>ORF Size:</b>	1563 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027297.3</a> , <a href="#">NP_081573.1</a>
<b>RefSeq Size:</b>	5237 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	70052
<b>UniProt ID:</b>	<a href="#">Q9DAW6</a>
<b>Cytogenetics:</b>	4 B3
<b>Gene Summary:</b>	Plays role in pre-mRNA splicing as component of the U4/U6-U5 tri-snRNP complex that is involved in spliceosome assembly, and as component of the precatalytic spliceosome (spliceosome B complex).[UniProtKB/Swiss-Prot Function]