

## Product datasheet for **MG208348**

### **Ppil2 (NM\_144954) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppil2 (NM_144954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppil2
Synonyms:	0610009L05Rik; 1700016N17Rik; 4921520K19Rik; 4930511F14Rik; AA589416; C130078A06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208348 representing NM\_144954  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAAGCGACAGCACCAGAAGGACAAGATGTATATCACTTGTGCTGAGTATACTCATTCTATGGTG  
 GCAGGAAGCCAGATATCTCACAGACAAGTTTTCGCCGATTACTTTTGACCACTGCACTCTCTCTCCA  
 GCCTTTTGTCTACCCAGTCTGCACCCGAGAAGGTGTCGCTTTGACTTGTGAACATTGTTCCCTGGCTT  
 AAGAAGTATGGGACGAATCCCAGCACTGGAGAGAACTTGATGGGAAGTCCTTGATCAAGCTGAAGTTCG  
 CAAAGAACAGCGAAGGGCAGTACCCTGTCAGTGTATTCCGTGTTCACTGACAACACCCATATTGT  
 GGCCATCAGGACAACGGCAATGTCTACACCTATGAGGCAGTGGAGCAGCTAAACATCAAGGCCAAGAAC  
 TTGCGGGATCTGTTGACCGATGAGCCCTTTCCAGGCAAGACATCATACCCTGCAGGACCCCACTT  
 TGGACAAATTCATGTTAGCACTTCTCCATGTGAAGAATAACATGAGAATAATAGACCCAGATGAGGA  
 AAAGGCCAAACAAGACCCATCTTATTATTTGAAAAACACAAATTCGGAGACGAGAGACGCTACAGGAG  
 CTCTACAAAGAGTTCAAAGGAGATGAGATTTTAGCAGCTACCATGAGGCCACCTGAGAAGAAGAAGTGG  
 ACCAACTGAATGCGGCCCACTACTCCACAGGGAAGGTCAGTGCATCCTTACCTCTACTGCCATGGTGCC  
 CGAGACCACGCATGAAGCAGCTGTCACTGATGAAGATGTACTGCGCTACCAGTTTGTGAAGAAAAAGGGC  
 TATGTAAGGCTTACACCAACAAGGGCGACCTTAAGTACTGAGCTGCACTGTGACCTGACACCAAAAACCT  
 GTGAAAACCTCATCAAGCTCTGCAAGAAACAGTATTATGATGGTACCATCTTTCACAGGTCCATCAGGAA  
 CTTTGTGATCCAGGGCGGTGACCCACAGGTACAGGCACAGGTGGAGAGTCATTCTGGGGCAAGCCTTTC  
 AAAGATGAGTCCGTCCCAACCTTTCACACACGGGCCGTGGGGTGTCTCAGCATGGCCAATTCGGGGCCCA  
 ACACCAACAAGTCTCAGTCTTTCATCACATTCCGATCCTGCGCTTACCTGGATAAGAAGACATACTCTT  
 TGACCGGTTGTTGGGGGCTTTGACACGCTGACAGCCATGGAGAATGTGGAGAGTGACCCTAAAACTGAC  
 CGTCTAAGGAGGAAGTGTCTATGTACAACCACAGTGTGTTGTGGACCCCTATGAGGAGGCTGATGCC  
 AGATTGCCAGGAACGGAAGAAGACACAGCATCAGGTGGATCCAGAGGCCAAAGTCAAGATGAGTCAGCC  
 CCAGCCTGGAACCCAGGGACCCAGACATACCGCCAGGGGGTGGGCAAGTACATCCACCCTGCGGCCACG  
 AAACGATCAGCAGAGGAAGAACCATCGACCAGCACTGCCACCCACAGCCAAGAAAAGGCCAGTCGGG  
 GCTTTGGGGACTTCAGCTCCTGG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG208348 representing NM\_144954  
 Red=Cloning site Green=Tags(s)

MGKRQHQQDKMYITCAEYTHFYGGRKPDISQTSFRRLPFDHCSLSLQPFVYVPCVTEGTVFDLLNIVPWL  
 KKYGTNPSTGEKLDGKSLIKLNFANKSEGQYHCPVLYSVFTDNTHIVAIRTTGNVYTYEAVEQLNIKAKN  
 LRDLLTDEPFSRQDIITLQDPTNLDKFNVSNNFHVKNMIRIIPDEEKAKQDPSYYLKNTNSETRETLQE  
 LYKEFKGDEILAAATMRPPEKKKVDQLNAAHYSTGKVSASFSTAMVPETTHEAAVIDEDVLRVYQFVKKKG  
 YVRLHTNKGDLNLELHCDLTPKTCENFIKLCCKQYYDGTIFHRSIRNFVIQGGDPTGTGTGGESFWGKPF  
 KDEFRPNLSHTGRGVLSMANSGPNTNKSQFFITFRSCAYLDKKHTIFGRVVGFDL TAMENVESDPKTD  
 RPKEEVLICTTTVFVDPYEEADAQIAQERKKTQHQVDPEAKVKMSQPQGNQGPQTYRQGVGKYIHPAAT  
 KRSAEEEPSTSTATPTAKKRPSRGFGDFSSW

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_144954
<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_144954.1</a>
<b>RefSeq Size:</b>	2191 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	66053
<b>UniProt ID:</b>	<a href="#">Q9D787</a>
<b>Cytogenetics:</b>	16 A3
<b>Gene Summary:</b>	Has a ubiquitin-protein ligase activity acting as an E3 ubiquitin protein ligase or as an ubiquitin-ubiquitin ligase promoting elongation of ubiquitin chains on substrates. By mediating 'Lys-48'-linked polyubiquitination of proteins could target them for proteasomal degradation. May also function as a chaperone, playing a role in transport to the cell membrane of BSG/Basigin for instance. Probable inactive PPIase with no peptidyl-prolyl cis-trans isomerase activity.[UniProtKB/Swiss-Prot Function]