

## Product datasheet for **MG200307**

### **Psenen (NM\_025498) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Psenen (NM\_025498) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Psenen  
**Synonyms:** 1700023M09Rik; Pen-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200307 representing NM\_025498  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCTGGAGCGGGTATCCAATGAGGAGAAGTTGAACCTGTGCCGGAAGTACTATCTTGGTGGATTTG  
 CGTTCCTGCCTTTTCTTTGGTTAGTCAACATTTCTGGTCTTCAGAGAGGCGTTCCTCGCCCCAGCCTA  
 CACAGAGCAGAGCCAAATCAAAGGCTATGTTTGGCGCTCAGCTGTGGCTTCTCTCTGGGTGATCATT  
 CTCGCCACCTGGATCACCATCTCCAGATCTACCGCCCCGCTGGGGCGCTCTTGGGACTACCTCTCT  
 TCACCATTCCCCTGGGCACTCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200307 representing NM\_025498  
 Red=Cloning site Green=Tags(s)  
 MNLERSVNEEKLNLCKRYLGGFAFLPFLWLVNIFWFFREAFAPAYTEQSQIKGYVWRSVAVGFLFWVII  
 LATWITIFQIYRPRWGALGDYLSFTIPLGTP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

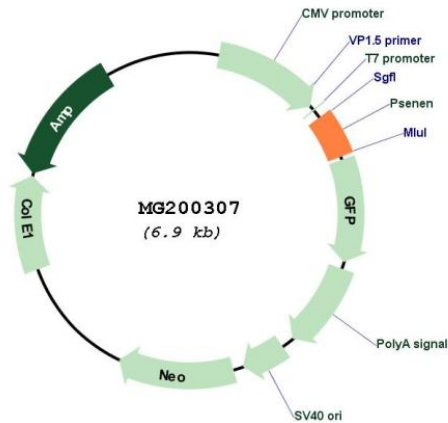


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_025498

ORF Size: 303 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](#)

<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_025498.3</a>
<b>RefSeq Size:</b>	670 bp
<b>RefSeq ORF:</b>	306 bp
<b>Locus ID:</b>	66340
<b>UniProt ID:</b>	<a href="#">Q9CQR7</a>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein) (PubMed:12522139, PubMed:24941111). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels (Probable). PSENEN modulates both endoproteolysis of presenilin and gamma-secretase activity (PubMed:12522139, PubMed:24941111).[UniProtKB/Swiss-Prot Function]