

## Product datasheet for **RN210155**

### **Psenen (NM\_001008764) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psenen (NM_001008764) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Psenen
Synonyms:	RGD1312037
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210155 representing NM_001008764 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACTTAGAGCGGGTGTCCAATGAGGAGAAGTTGAACCTGTGCCGGAAGTACTATCTTGGTGGATTTG  
CATTCTGCCTTTCTTTGGTTGGTCAACATTTCTGGTTCTTCAAAGAGGCCTTCTCGCTCCAGCCTA  
CACAGAGCAGAGCCAAATCAAAGGCTATGTTTGGCGCTCAGCTGTGGCTTCCTCTCTGGGTGATTGTT  
CTCACCACCTGGATCACCATCTCCAGATCTACCGGCCCGCTGGGGTGCTCTTGGGACTACCTCTCT  
TCACCATTCCCCTGGGCACTCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001008764
Insert Size:	306 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001008764.2](#), [NP\\_001008764.1](#)

**RefSeq Size:** 572 bp

**RefSeq ORF:** 306 bp

**Locus ID:** 292788

**UniProt ID:** [Q6QI68](#)

**Cytogenetics:** 1q21

**Gene Summary:** 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). 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. PSENEN modulates both endoproteolysis of presenilin and gamma-secretase activity.[UniProtKB/Swiss-Prot Function]