

## Product datasheet for **RR212700**

### **Psen2 (NM\_031087) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psen2 (NM_031087) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psen2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212700 representing NM_031087 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCACATTATGGCCTCTGATAGCGAGGAAGAGGTGTGCGATGAGCGGACGTCCTTGATGTCAGCCG  
AGAGCCCTACATCACGTTCTGCCAGGACAGCAGGCCAGGCCAGAGGATGGAGAGAACACTGCCAGTG  
GAGGAGCCAGGAGAACGAGGACGACTGTGAGGAGACCCGACCCTATGCCTGCAGTGGGTTCTGGG  
CGACCATCGGGCCTGGAGGAGGAGCTGACCCTCAAGTATGGGGCGAAGCACGTGATCATGCTGTTGCTGC  
CTGTACGCTGTGCATGATTGTGGTGGTGGCCACCATCAAGTCCGTGCGTTTCTACACGGAGAAGAACGG  
GCAGCTCATCTACACGCCCTTACCAGGACACACCCTCTGTGGGCCAGCGGCTCCTCAACTCCGTGCTG  
AACACTCTGATCATGATCAGCGTCATTGTGGTCATGACTATCTTCTAGTGGTACTCTACAAATATCGCT  
GTTACAAGTTCATCCATGGCTGGCTGATCATGTCCTCCCTGATGCTCCTTCTTGTTCACCTACATCTA  
CCTCGGGGAAGTGTCAAGACCTACAATGTGGCCATGGACTACCCACACTGTTCTGGCTGTCTGGAAC  
TTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGTCCCCTGGTGCCTCCAGCAGGCTTACCTCATTG  
TGATCAGCGCACTCATGGCCCTGGTGTTCATCAAGTACCTGCCGAGTGGTCCGCTTGGGTATCTTGGG  
CGCCATCTCTGTGACGATCTCGTGGCTGTGCTGTGCCCAAAGGGCCACTGAGGATGCTGGTGGAAACT  
GCCAGGAAAGAAACGAGCCCATATTTCTGCCCTCATATACTCATCTGCCATGGTGTGGACGGTAGGCA  
TGGCGAAGCTGGACCCCTCCTCTCAGGGAGCACTGCAGCTCCCTTACGATCCAGAGATGGAAGAAGACTC  
CTATGACAGTTTTGGGAAACCCTCATACCCTGAAGCCTTCAAGCTCCCCAGCCTGGCTACCCAGGGGAA  
GAGCCGGAGGAGGAGGAGGAAAGGGGTGTAAGCTTGGTCTGGGAGACTTCACTTCTACAGCGTTCTGG  
TGGCAAGGCAGCAGCCACAGGCAACGGAGACTGGAGCACGACGCTGGCCTGCTTTATCGCCATCCTCAT  
TGGCTTGTGTCTACCCCTCCTGCTGCTCGCCGTGTTCAAGAAGGCCCTGCCGCCCTCCCATCTCCATC  
ACCTTCGGGCTCATTTTTACTTCTCCACAGACAACTGGTGCCTTTCATGGACACGTTGGCCTCCC  
ACCAGCTCTACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR212700 representing NM\_031087  
Red=Cloning site Green=Tags(s)

MLTFMADSEEEVCDERTSLMSAESPTSRSCQDSRPGPEDGENTAQWRSQENEDDCEEDPDHYACSGVPG  
RPSGLEEEELTKYGAHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTPFTEDTPSVGQRLNLSVL  
NTLIMISVIVVMTIFLVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVFKTYNVAMDYPTLFLAVWN  
FGAVGMVCIHWKGPLVLQQAYLIVISALMALVFIKYLPEWSAWVILGAI SVYDLVAVLCPKGPLRMLVET  
AQERNEPIFPALYSSAMVWTVGMAKLDPSSQGALQLPYDPEMEEDSYDSFGEPSYPEAFEAPQPGYPGE  
EPEEEEEERGVKLGLDGDFIFYSVLVGKAAATGNGDWSTTLACFIAILIGLCLLLLLAVFKKALPALPISI  
TFGLIFYFSTDNLVRPFMDTLASHQLYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

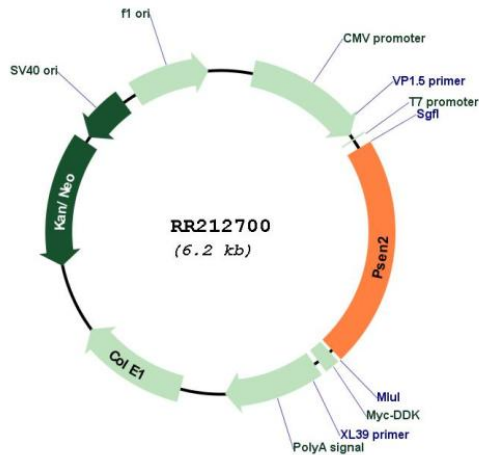
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_031087
<b>ORF Size:</b>	1344 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_031087.2</a> , <a href="#">NP_112349.2</a>
<b>RefSeq Size:</b>	1628 bp
<b>RefSeq ORF:</b>	1347 bp
<b>Locus ID:</b>	81751
<b>UniProt ID:</b>	<a href="#">O88777</a>
<b>Cytogenetics:</b>	13q26
<b>MW:</b>	50.1 kDa
<b>Gene Summary:</b>	mutations in human homolog responsible for chromosome 1-linked familial Alzheimer's disease; expression increased during brain development but decreased in the adult [RGD, Feb 2006]