

Product datasheet for MR200307

Psenen (NM_025498) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Psenen (NM_025498) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psenen
Synonyms:	1700023M09Rik; Pen-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR200307 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAACTTGGAGCGGGTATCCAATGAGGAGAAGTTGAACCTGTGCCGGAAGTACTATCTTGGTGGATTTG CGTTCCTGCCTTTTCTTGGTTAGTCAACATTTTCTGGTTCTTCAGAGAGGCGTTCCTCGCCCCAGCCTA CACAGAGCAGAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR200307 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MNLERVSNEEKLNLCRKYYLGGFAFLPFLWLVNIFWFFREAFLAPAYTEQSQIKGYVWRSAVGFLFWVII LATWITIFQIYRPRWGALGDYLSFTIPLGTP
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



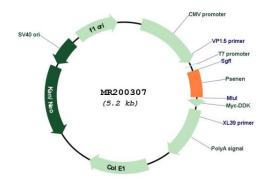
* The last codon before the Stop codon of the ORF

ACCN	
ACCN:	NM_025498
ORF Size:	306 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 025498.3</u>
RefSeq Size:	670 bp
RefSeq ORF:	306 bp

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	Psenen (NM_025498) Mouse Tagged ORF Clone – MR200307
Locus ID:	66340
UniProt ID:	<u>Q9CQR7</u>
Cytogenetics:	7 B1
MW:	12 kDa
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) (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]

Product images:



Circular map for MR200307

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