

Product datasheet for MR203433

Psen1 (BC014744) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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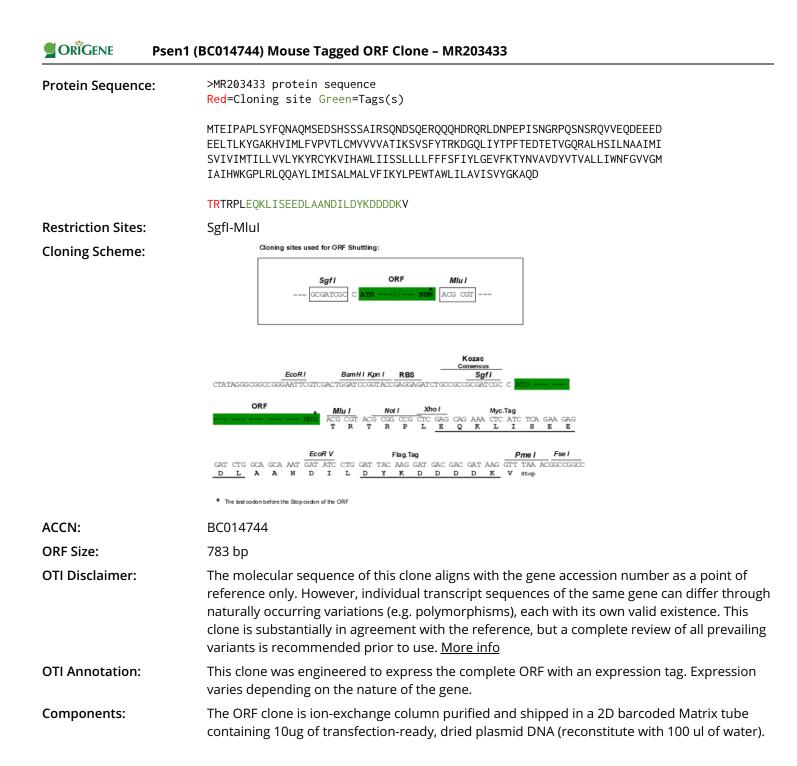
Product Type:	Expression Plasmids
Product Name:	Psen1 (BC014744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psen1
Synonyms:	PS1, S182, PS-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203433 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGACAGAGATACCTGCACCTTTGTCCTACTTCCAGAATGCCCAGATGTCTGAGGACAGCCACTCCAGCA GCGCCATCCGGAGCCAGAATGACAGCCAAGAACGGCAGCAGCAGCATGACAGGCAGAGACTTGACAACCC TGAGCCAATATCTAATGGGCGGCCCCAGAGTAACTCAAGACAGGTGGTGGAACAAGATGAGGAGGAAGAAC GAAGAGCTGACATTGAAATATGGAGCCAAGCATGTCATCATGCTCTTTGTCCCCGTGACCCTCTGCATGG TCGTCGTCGTGGCCACCATCAAATCAGTCAGCTTCTATACCCGGAAGGACGGTCAGCTAATCTACACCCC ATTCACAGAAGACACTGAGACTGTAAGCCCAAGAGCCCTGCACTCGATCCTGAATGCGGCCATCATGATC AGTGTCATTGTCATTATGACCATCCTCGGTGGTCCTGTATAAATACAGGTGCTACAAAGGTCATCCACG CCTGGCTTATTATTTCATCTCTGTTGTTGCTGTTCTTTTTTCGTTCATTTACTTAGGGGAAGTATTTAA GACCTACAATGTCGCCGTGGACTACGTTACAGTAGCACTCCTAATCTGGAATTTTGGTGGTGGTCGGGATG ATTGCCATCCACTGGAAAGGCCCCCTTCGACTGCAGCAGCGCTATCTCATTATGGTGGTCGGGATG ATTGCCATCCACTGGAAAGGCCCCCTTCGACTGCAGCAGGCGTATCTCATTATGATCAGTGCCCTCATGG CCCTGGTATTTATCAAGTACCTCCCCGAATGGACCGCATGGCTCATCTTGGTGTGGTCGGCATG ATTGCCATCCACTGGAAAGGCCCCCTTCGACTGCAGCAGGCGTATCTCATTATGATCAGTAGCCATCCACTGG CCCTGGTATTTATCAAGTACCTCCCCGAATGGACCGCATGGCTCATCTTGGCTGTGATTTCAGTATATGG TAAAGCTCAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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CRIGENE Psen1 (BC014744) Mouse Tagged ORF Clone – MR203433

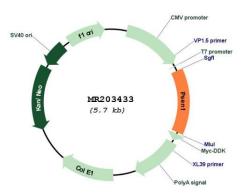
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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>BC014744</u> , <u>AAH14744</u>
RefSeq Size:	1982 bp
RefSeq ORF:	785 bp
Locus ID:	19164
Cytogenetics:	12 38.84 cM
MW:	29.8 kDa
Gene Summary:	Catalytic 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). Requires the presence of the other members of the gamma-secretase complex for protease activity (By similarity). 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 (PubMed:10421573, PubMed:11517342). Stimulates cell-cell adhesion via its interaction with CDH1; this stabilizes the complexes between CDH1 (E-cadherin) and its interaction partners CTNNB1 (beta-

PubMed:11517342). Stimulates cell-cell adhesion via its interaction with CDH1; this stabilizes the complexes between CDH1 (E-cadherin) and its interaction partners CTNNB1 (betacatenin), CTNND1 and JUP (gamma-catenin) (PubMed:11226248). Under conditions of apoptosis or calcium influx, cleaves CDH1 (PubMed:11953314). This promotes the disassembly of the complexes between CDH1 and CTNND1, JUP and CTNNB1, increases the pool of cytoplasmic CTNNB1, and thereby negatively regulates Wnt signaling (PubMed:11226248). Required for normal embryonic brain and skeleton development, and for normal angiogenesis (PubMed:9160754, PubMed:10421573, PubMed:12834865). Mediates the proteolytic cleavage of EphB2/CTF1 into EphB2/CTF2 (PubMed:17428795). The holoprotein functions as a calcium-leak channel that allows the passive movement of calcium from endoplasmic reticulum to cytosol and is involved in calcium homeostasis (PubMed:16959576). Involved in the regulation of neurite outgrowth (By similarity). Is a regulator of presynaptic facilitation, spike transmission and synaptic vesicles replenishment in a process that depends on gamma-secretase activity. It acts through the control of SYT7 presynaptic expression (PubMed:30429473).[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR203433

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