

Product datasheet for MC203369

Psen1 (NM_008943) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psen1 (NM_008943) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Psen1
Synonyms:	Ad3h; PS-1; PS1; S182
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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Fully Sequenced ORF:

>BC071233
CCACCGCTCCGGACCGTGGGTCGAGATTCTCGGAAACAAAACAGCGCAGCTGAGGCGAAA
CCTAGGCTGCAGCCGCCCGGGCGGAGAGAGAAGGAACCAACACAAGACAGCAGCCCTCGAGG
TCTTAGGCAGCTGGAGGAGAACACATGAGAGAAAGAACATCCAGGGAGCCAGAATGACAGCCAAGAACGGCAGCAGCATGAC
TGAGGACAGCCACTCCAGCAGGCCATCCGGAGCCAGAATGACAGCCAAGAACGGCAGCAGCATGAC
AGGCAGAGACTTGACAACCCCTGAGCCAATATCTAATGGCGGCCAGAGTAACTAAGACAGGTGG
AACAAAGATGAGGAGGAAGACGAAGAGCTGACATTGAAATATGGAGCCAAGCATGTCATCATGCTCTTGT
CCCCGTGACCCTCTGCATGGTCGTCGTCGACCATCAAATCAGTCAGCTTACAGCTGTTACCCGAGGAC
GGTCAGCTAATCATCACCCCATTCAAGAAGACACTGAGACTGTAGGCCAAGAGGCCCTGCACTCGATCC
TGAATCGGCCATCATGATCAGTGTATTGCTATTGACCATCCTCTGGTGGTCTGTATAAATACAG
GTGCTACAAGGTATCCACGCCCTGGCTTATTATTCATCTCTGTTGCTGTTCTTTTTCGTTCTT
TACTTAGGGAAAGTATTAAGACCTACAATGTCGCCGTGACTACGTTACAGTAGCACTCTAACTGGAA
ATTGGTGTGGTGGGATGATTGCCATCCACTGAAAGGCCCTGACTGCAGCAGCGTATCTCAT
TATGATCAGTGCCCTATGGCCCTGGTATTATCAAGTACCTCCCGAATGGACCGATGGCTCATCTG
GCTGATTTCACTATATGATTGGCTGTTTATGCTAAAGGCCACTTCGTTGCTGGTAA
CAGCTCAGGAAAGAAATGAGACTCTCTTCAGCTTATCTATTCTCAACAATGGTGTGGTGGAA
TATGGCTGAAGGGAGACCCAGAACGCCAAAGGAGGGTACCCAAGAACCCCAAGTAAACACACAAAGAGCG
GAGAGAGACAGGACAGTGGTCTGGGACGATGATGGTGGCTCAGTGAGGAGTGGGAGGCCAA
GAGACAGTCACCTGGGGCCTCATCGCTCACTCCGAGTCAGAGCTGCTGCCAGGAACCTCTGGGAG
CATTCTAACGAGTGAAGACCCGGAGGAAGAGGAGTAAACCTGGACTGGGAGATTCATTTCTACAGT
GTTCTGGTTGGTAAGGCCCTCAGCAACGCCAGTGGAGACTGGAACACAACCATAGCCTGTTTAGCCA
TACTGATGCCCTGTCCTACATTACTCTGCTGCCATTCAAGAAAGCGTGCAGCCCTCCCAT
CTCCATCACCTCGGGCTGTTCTACTCGCCACGATTACCTTGTCAGGCCCTCATGGACCAACTT
GCATTCCATCAGTTTATATCTAGCCTTCTGCAGTTAGAACATGGATGTTCTTCTTGTATTACAAA
ACACAAAAACAGAGAGCAAGCCGAGGAGGAGACTGGTGAACCTCTGCTCAGCTAACAAAGGCAG
GACTCCAGCTGGACTTCTGCACTTCCCTGGAGTCTCCCTAGCCACCCGCACTACTGGACTGTGGAAGG
AAGCGTCTACAGAGAACGGTTCAACATCCATCGCTGCAGCAGACGGTGTCCCTCAGTGACTTGAGAGA
CAAGGACAAGGAAATGTGCTGGGCAAGGAGCTGCCGTCTGCTAGTTGACCCGTGGCATGGAGA
TTTACCCGCACTGTGAACCTCTAAAGTTAACAAAGTGAGGTGAACCAAACAGAGCTGCCATCTTCA
CACCATGTTGAAATAAAACACGCTCTAGCTGAACCTTACTGTCAGGAGGTTCCGTGAGGTTGCA
CTGGGCCGGGCCCTCCCTCAGGCTCTTGCTGCCACTTGTAAGTTAAAGGACACCGCCCTACA
CAAACCTCACCCCTGTACATCAGTGACTCTGACCAACTTTGTTCTCAAACACTCTCACTATTATCTGTG
GTTGCCGTTCTCCCAAGGCCAGCCTGGAGAATTGGGTTGCTCTATCTGAGAGTTGTAACCTCAA
CTTCAAAGTTATATTTCTTGAAATGATGGATCTATTGCTCAACAGTCCCTGTCATCTTAAGTGACT
TCTGGGTTCCCAAATTCTCACTTTAGACACACTCTAACGCTTACTTCTGGCCTGGATGCTTCTCT
CCCTGTCTCTCCCTGCCCCACAGCGGTTCCCTGACAGCAGACAAGCAGCTGGGAGGTAGCTAGTAT
CCAATAACCCAGGGTTCTCATGTGATGCAAATACTACGTGTCACCAATCAGTGCTGTCACCGGC
TGCCATAGCTCTCGATGCCAATAGGATGTGCCCCAAGAATTAAAGCGATGAGTGGCTGGTGGAAAA
AA
AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Rsrl-NotI

ACCN:

NM_008943

Insert Size:

1404 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:	<ol style="list-style-type: none">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:	<u>BC071233</u> , <u>AAH71233</u>
RefSeq Size:	2750 bp
RefSeq ORF:	1404 bp
Locus ID:	19164
UniProt ID:	<u>P49769</u>
Cytogenetics:	12 38.84 cM
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-catenin), 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]