

Product datasheet for **RC223613**

Presenilin 2 (PSEN2) (NM_000447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Presenilin 2 (PSEN2) (NM_000447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Presenilin 2
Synonyms:	AD3L; AD4; CMD1V; PS2; STM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223613 representing NM_000447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCACATTTCATGGCCTCTGACACGAGGAAGAAGTGTGTGATGAGCGGACGTCCTAATGTCGGCCC
 AGAGCCCCACGCCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAATACTGCCAGTG
 GAGAAGCCAGGAGAACGAGGAGGACGGTGGAGGAGACCCTGACCGCTATGTCTGTAGTGGGGTCCCGGG
 CGGCCGCCAGGCCTGGAGGAAGAGCTGACCCTCAATACGGAGCGAAGCATGTGATCATGCTGTTTGTGC
 CTGTCACTCTGTGCATGATCGTGGTGGTAGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGG
 ACAGCTCATCTACAGCCATTCACTGAGGACACACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTG
 AACACCCTCATCATGATCAGCGTCATCGTGGTTATGACCATCTTCTTGGTGGTGTCTACAAGTACCGCT
 GCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGATGCTGCTTCTCTTCCATATATCTA
 CCTTGGGAAGTCTCAAGACCTACAATGTGGCCATGGACTACCCACCCTCTTGTGACTGTCTGGAAC
 TTGGGGCAGTGGGCATGGTGTGATCCACTGGAAGGGCCCTCTGGTGTGCAGCAGGCCTACCTCATCA
 TGATCAGTGCCTCATGGCCCTAGTGTTCATCAAGTACCTCCCAGAGTGGTCCGCGTGGGTATCCTGGG
 CGCCATCTCTGTGATGATCTCGTGGTGTGCTGTGTCCAAAGGGCCTCTGAGAATGCTGGTAGAACT
 GCCCAGGAGAGAAATGAGCCCATATCCCTGCCCTGATACTCATCTGCCATGGTGTGGACGGTTGGCA
 TGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCTCCAGCTCCCTACGACCCGGAGATGGAAGAAGACTC
 CTATGACAGTTTTGGGGAGCCTTCATACCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAG
 GAGCTGGAGGAAGAGGAGAAAGGGGCGTGAAGCTTGGCTCGGGACTTCATCTTCTACAGTGTGCTGG
 TGGCAAGGCGGCTGCCACGGGACGCGGGACTGGAATACCAGCTGGCCTGCTTCGTGGCCATCCTCAT
 TGCTTGTGTCTGACCCCTCTGCTGCTTGTGTTCAAGAAGGCGCTGCCCGCCCTCCCATCTCCATC
 ACGTTCGGGCTCATCTTTTACTTCTCCACGGACAACTGGTGCAGCCGTTTATGGACACCCTGGCCTCC
 ATCAGCTCTACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223613 representing NM_000447
 Red=Cloning site Green=Tags(s)

MLTFMADSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEDPDRYVCSGVPG
 RPPGLEEELTLKYGAKHVIMLFVPVTLMIIVVATIKSVRFYTEKNGQLIYTPFTEPTPSVQRLLNSVL
 NTLIMISVIVVMTIFLVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTVWN
 FGAVGMVCIHWKGPLVLQAYLIMISALMALVFIKYLPEWSAWILGAI SVYDLVAVLCPKPLRMLVET
 AQERNEPIFPALYSSAMVWTVMKLDPSQALQLPYDPEMEEDSYDSFGEPSYVEVFEPPLTGYPGE
 ELEEEERGVKLGDFIFYSVLVGKAAATGSGDWNTTLACFVAILIGLCLLLLLLAVFKKALPALPISI
 TFGLIFYFSTDNLVRPFMDTLASHQLYI

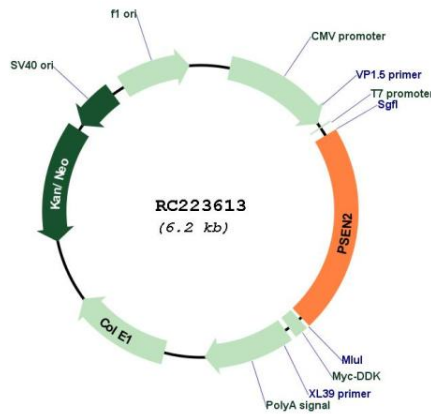
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cytogenetics: 1q42.13
Domains: Presenilin, PSN
Protein Families: Druggable Genome, Protease, Transmembrane
Protein Pathways: Alzheimer's disease, Notch signaling pathway
MW: 50 kDa
Gene Summary: Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1 or PSEN2) or the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor such that, they either directly regulate gamma-secretase activity, or themselves act as protease enzymes. Two alternatively spliced transcript variants encoding different isoforms of PSEN2 have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223613