

Product datasheet for **RR212163**

Psmid1 (NM_031978) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmid1 (NM_031978) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmid1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR212163 representing NM_031978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCACTTCAGCCGCTGGAATTATTTCTCTTCTGGATGAAGAAGGCCACAGCTCAAGGAATTTGCAC
 TACACAAATTGAATGCAGTTGTGAATGACTTCTGGGCAGAAATTTCTGAGTCTGTAGACAAAATAGAAGT
 TTTATATGAAGATGAAGGTTTCCGCAGTCGGCAGTTTGCAGCCTTGGTGGCATCGAAAGTATTTTATCAC
 CTGGGGGCTTTTCGAGGAGTCTCTGAATTATGCTCTTGGAGCAGGTGACCTCTTCAATGTCAATGATAACT
 CTGAATATGTGGAGACTATTATAGCAAAATGCATTGATCATTATACCAAACAGTGTGGAAAAATGCAGA
 TTTGCCTGAAGGAGAAAAGAAGCCAATTGACCAGAGATTGGAAGGCATCGTGAATAAGATGTTCCAGCGA
 TGTCTCGATGATCACAAGTATAAGCAAGCGATTGGCATTGCTCTGGAGACCAGGAGACTAGATGTGTTT
 AGAAGACTATACTGGAATCTAATGATGTCCAGGAATGCTAGCTTACAGCCTCAAGCTCTGCATGTCTTT
 AATGCAGAATAAGCAGTTTCGGAATAAAGTATTGCGAGTCTGGTTAAAACTACATGAACCTGGAAAA
 CCTGATTTTCATCAATGTTTGTGAGTCTTAATCTTCTTAGATGACACCCAGGCCGTGAGTATATCTTAG
 AAAAGCTGGTAAAGGAAGACAACCTGCTGATGGCCTATCAGATTTGCTTTGATTTGTACGAAAGTCCAG
 CCAGCAGTTTTTGTATCTGTGATCCAGAATCTTCAACTGTTGGGACCCCTATTGCTTCTGTGCTGGA
 TCTACCAATACGGTACTGTGCCAGGACCAGAGAAAGACAGTACTATGGAGACCAGGAGAAGACAG
 CCGGTGCAGTGGCAGGAAAACACCAGACGCTAGTCCAGAGCCCAAGGACCAGACATTGAAAATGATTAA
 AATTTTAAAGTGGTGAATGGCTATCGAGTTACACCTGCAGTTCCTAATACGCAATAATAACACAGACCTC
 ATGATTTGAAAAACACAAGGATGCAGTACGAAATCTGTATGTCATACAGCAACTGTAATAGCAAAT
 CATTATGCAGTGTGGGACTACCAGTACCAGTTCCTTAGAGATAACTTGAATGGTGGCCAGAGCCAC
 TAACTGGGCCAAAATTTACTGCAACTGCCAGCTTGGGTGTAATCCATAAGGGCCATGAGAAGGAAGCACTA
 CAGTTAATGGCAACATACCTCCCTAAGGACACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCT
 ATGCATTTGGTCTCATTGATCCCAATCATGGTGGTGACATAATTGACTATCTCCTAATCAGCTCAAGAA
 TGCCAGCAATGATATCGTTAGACATGGAGGCAGCTTGGGCCTTGGTTGGCTGCAATGGGAACTGCACGT
 CAGGATGTATATGATTTGCTGAAAACAAACCTGTATCAGGATGATGCTGTGACAGGGGAGGCAGCTGGCC
 TGGCCTTAGGTTTGGTTATGTTAGGCTCTAAAAACACCCAGGCGATTGAGGATATGGTTGGCTATGCACA
 AGAAACTCAACACGAGAAGATTCTGCGTGGTCTAGCAGTTGGCATTGCGTTAGTGTATGTTGGGAGGATG
 GAGGAGGCCGATGCTCTCATTGAATCTCTCTGTCTGTGATAAGGACCCAATCTTAGAAGATCTGGAATGT
 ATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAATAAAGCTATTTCGAGCCTGCTGCATGTTGCTGT
 AAGTGATGTCAACGATGATGTCAGAAGAGCAGCAGTAGAGTCTCTTGGCTTCATTTTGTTCAGGACGCC
 GAACAGTGTCCAAGTGTGGTCTCTTTGTTGTCCGAGAGTTATAACCCTCATGTGCGCTACGGCGCTGCAA
 TGGCCCTGGGAGTCTGCTGTGCTGGTACAGGAAACAAGGAAGCAATTAATTTACTGGAGCCAATGACCAA
 TGACCTGTGAACTACGTGCGGCAAGGGGCTCTGATAGCCTCAGCTCTCATGATCCAACAGACCGAA
 ATCACGTGTCAAAGGTAACCAGTTCGGCAGCTGTATCCAAAGTCATCAATGACAAGCATGATGATG
 TCATGGCCAAATTTGGCGCTATTCTGGCCCAAGGCATACTGGATGCAGGTGGTCAATATGTCACAATCTC
 CTTACAGTCCAGGACTGGGCACACTCATATGCCCTTCTGTGGTTGGCGTCTTGTCTTTACCCAGTCTGG
 TTCTGGTTTCCCTTTCACACTTCTATCATTGGCTTACTCCTACCTGTATCATCGGCCCTTAACAAGG
 ATTTAAAGATGCCGAAAGTTCAATATAAATCAAATTTGAAACCATCCACATTCGCATACCCCTGCCCTCT
 GGAAGTTCAAAAGAAAAAGAAAAGAAAAGGTTTCCACCCTGTGTTGTCTATTACTGCCAAAGCTAAA
 AAAAAAGAAAAAGAAAAAGAAAAAGGAGGAGGAGAAGATGGAAGTGGACGAAGCAGAAAAAGGAAG
 AGAAAGAGAAGAAAAAGAACCGGAACCAACTCCAGCTGTTGGATAATCCAGCACGGGTGATGCCTGC
 CCAGCTGAAGGTCTTAAGTATGACAGAGACCTGCAGATACCAACCCTTCAAGCCACTCTCCATCGGGGGC
 ATCATAATTCTGAAAGACACCAGCGAAGACATTGAGGAACCTGTGGAACCCGTGGCAGCACATGGCCAA
 AGATTGAAGAGGAGGAGCAGGAGCCAGACCCCCAGAGCCATTTGAGTACATCGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212163 representing NM_031978
 Red=Cloning site Green=Tags(s)

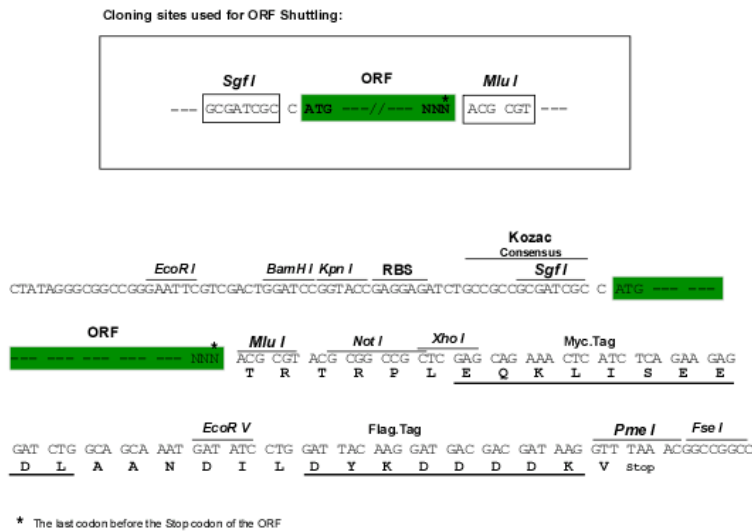
MITSAAGIISLLDEEPPQLKEFALHKLNAVVNDFAEISESVDKIEVL YEDEGFRSRQFAALVASKVIFYH
 LGAFEEESLNYALGAGDLFNVNDNSEYVETIIAKCIDHYTKQCVENADLPEGEKPIDQRLEGIVNKMFOR
 CLDDHKYKQAIGIALETRRLDVFETILESNVDPGMLAYSLLKCLMSLMQNKQFRNKVLRVLVKIYMNLEK
 PDFINVCQCLIFLDDTQAVSDILEKLVKEDNLLMAYQICFDLYESASQQFLSSVIQNLRTVGTPIASVPG
 STNTGTVPGEKSDSMETEEKTAGAVAGKTPDASPEPKDQTLKMIKILSGEMAIELHLQFLIRNNNDL
 MILKNTKDAVRNSVCHTATVIANSFMHCGTTSQFLRDNLEWLRATNWAQKFTATASLGVIHKGHEKEAL
 QLMATYLPKDTSPGSAYQEGGLYALGLIHANHGDDIIDYLLNQLKNASNDIVRHGGSLGLGLAAMGTAR
 QDVYDLLKTNLYQDDAVTGEAAGLALGLVMLGSKNTQAIEDMVGYAQETQHEKILRGLAVGIALVMYGRM
 EEADALIESLCRDKDPILRRSGMYTVAMAYCGSGNKAIRRLHVAVSDVNDVRRAAVESLGFILFRTP
 EQCPSVSVLLSESYNPHVRYGAAMALGVCCAGTGNKEAINLLEPMTNDPVNYVRQGALIASALIMIQQTE
 ITCPKVNQFRQLYSKVINDKHDDVMKFGAILAQGILDAGGHVNTISLQSRGTGHTHMPVSVGVLVFTQFW
 FWFPLSHFLSLAYTPTCIIGLNKDLKMPKVQYKSNCKPSTFAYPAPLEVPKEKEKEKVSTAVLSITAKAK
 KKEKEKEKEKEEKEVDEAEKKEKEKKEPEPNFQLLDNPARVMPAQLKVL SMTETCRYQPFKPLSIGG
 I I I L K D T S E D I E E L V E P V A A H G P K I E E E E Q E P E P P E F E Y I D D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

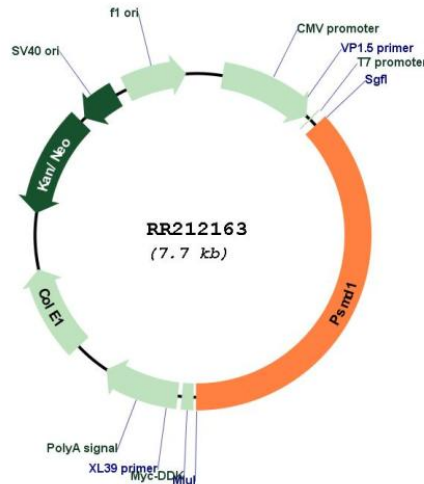
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031978

ORF Size: 2859 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. [More info](#)

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:

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: [NM_031978.1](#), [NP_114184.1](#)

RefSeq Size: 3089 bp

RefSeq ORF: 2862 bp

Locus ID: 83806

UniProt ID: [O88761](#)

Cytogenetics: 9q35

MW: 105.7 kDa

Gene Summary: is upregulated by glutamate excitotoxicity and may be involved in neurodegenerative processes [RGD, Feb 2006]