

Product datasheet for **MC217890**

Pan3 (BC082547) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pan3 (BC082547) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pan3
Synonyms:	2700050F09Rik; A430027N15Rik; AU014670
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC082547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGGGGAATGTCACTGTCTGCTGGATCTTCCCCTCTCCATTCCCCAAAATTACTCCACACACCTCTC
 CTGCTCCTAGAGAAGAAGCCCACTCCAAACCCAGCAAGTTTCATGGTGCCGCCTAGTGCCTCCACTCC
 TGCCAATAACCCCTGCTCCTCAGCCTCCGTCCTCTGGTCAGGTGATCCAGAAGGAGACTGTCGGGGGACG
 ACTTACTTCTATACAGATACAACCCAGCACCTTTGACTGGAATGGTATTTCAAACATCATATTTATC
 CTCCAACCGCACCTCATGTTGCTTATATGCAACCAAAAGCAATGCACCTTCTTCTTATGGCCGACGA
 GCTCCGACAGGAGCTGATCAACAGACATTTAATAACGATGGCTCAAATTGACCAAGCAGATATGCCAGCA
 GTCCCCACAGAAGTTGACAGCTACCATAGCCTGTTCCCTCTAGAACCCTGCCACCTCCCAACCGGATAC
 AGAAATCAAGTAATTTTGATATATCACGTCTTGCTACAAAGCTGTAATAGCAAAGATGATCTGCCATA
 TTGCCTTCGGAGGATACATGGTTTTCTGCTTGTAAACACAAAGTGCATGGTGTGGTTGATATGTGAAA
 AAAATTACGACTCAAATATTGTAACCTGCGTGAAGTGTACCACTAAAGCATTGCGCAGCCTTCTC
 TGGTGTTCGCCTATGATTTCCATGCTGGAGGAGAACTATGATGAGCAGACACTTAAACGACCCGAATTC
 TGATGCCTACTTCACAAAGAGGAAGTGGGGCCAGCACGATGGACCACTGCCAGGAGCAGATGCTGGATTG
 TTACCAGAGTCTCTCATCTGGGCATACATTGTACAGCTGAGTTCTGCTCTGCGGACCATTCATACAGCAG
 GTTTGGCTGTAGAGTAATGGACCAACGAAGATTCTGATAACCAGCAAAACAAGTTACGAGTAAATTG
 TGTAGGAGTCTTTGATGTTTTAACATTTGATAACAGTCAAATAATAATCCTTTGGCATTAAATGGCTCAG
 TACCAGCAAGCAGATCTGATATCATTAGGAAAAGTTGTGTGGCTTTGGCTTGCAACTCTTTGGCAGGAA
 TTCAGCGAGAAAATTTACAGAAAGCCATGGAATTGGTGACAATCAACTACTCTCTGACCTGAAGAACCT
 CATCTTGTACTTGTGACTGACCAAAACAGGATGCGGAGTGTGAATGACATCATGCCCATGATTGGTGCT
 CGGTTTTACTCAATTGGATGCTGCTCAAATGAGAAATGATGTTATCGAGGAAGACCTTGCTAAGGAGG
 TTCAAATGGAAGACTGTTTAGGCTTCTAGCAAAATTGGGAACAATCAACGAGAGGCCGGAGTTTCAGAA
 GGATCCAACCTGGTCAGAGACTGGAGACAGATACCTGTTGAACTCTTTAGAGATCATCTTTTCATCAG
 GTGACAGAAGCAGGTGCTCCCTGGATCGACCTCAGTCACATCATTTCTTGTCTTAACAAGCTAGATGCTG
 GTGTGCCAGAAAAATCAGCCTGATTTCCAGAGACGAGAAGAGCGTGCTGGTGGTGACATACAGTGACCT
 AAAACGCTGCTTTGAAAATACCTTTCAAGAACTGATTGCGGCTGCAAATGGTAACGATCGGAACAGTAAC
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: BC082547

Insert Size: 1683 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC082547</u> , <u>AAH82547</u>
RefSeq Size:	4194 bp
RefSeq ORF:	1682 bp
Locus ID:	72587
Cytogenetics:	5 G3
Gene Summary:	Regulatory subunit of the poly(A)-nuclease (PAN) deadenylation complex, one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA and the activity is stimulated by poly(A)-binding protein (PABP). PAN deadenylation is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadenylated mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenylation-dependent mRNA decapping and subsequent 5'-3' exonucleolytic degradation by XRN1. PAN3 acts as a positive regulator for PAN activity, recruiting the catalytic subunit PAN2 to mRNA via its interaction with RNA and PABP, and to miRNA targets via its interaction with GW182 family proteins.[UniProtKB/Swiss-Prot Function]