

Product datasheet for **RC225978**

PARN (NM_001134477) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARN (NM_001134477) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARN
Synonyms:	DAN; DKCB6; PFBMFT4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC225978 representing NM_001134477
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGAGATAATCAGGAGCAATTTTAAGAGTAATCTTCACAAAGTGTACCAGGCCATAGAGGAGGCCGACT
TCTTCGCCATCGATGGGGAGTTTTTCAGGAATCAGTGATGGACCTTCAGTCTCTGCATTAACAAATGGTTT
TGACACTCCAGAAGAGAGGTATCAGAAGCTTAAAAAGCATTCCATGGACTTTTTGCTATTTTCAGTTTGGC
CTTTGCACTTTTAAGTATGACTACACAGATTCAAAGTATATAACGAAGTCATTTAACTTCTATGTTTTCC
CGAAACCTTCAATAGATCCTCACCAGATGTCAAATTTGTTTGTGACAGCTCCAGCATTGACTTTCTAGC
AAGCCAGGGATTTGATTTAATAAAAGTTTTTCGAAATGGAATCCATATTTAAATCAGGAAGAAGAAAGA
CAGTTAAGAGAGCAGTATGATGAAAAACGTTACAGGCGAATGGTGCAGGAGCTCTGTCTATGTATCTC
CTAACACTTCAAATGTCCTGTACGATTCCTGAGGATCAAAGAAGTTTATTGACCAAGTGGTAGAGAA
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TGCTGCGGACTTAAGTGAGTTTAAAGAGATGACAACATGTGTTTTCCCAAGACTTTGGATACTAAATT
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ACGGTTAAACCCAGTGCATACCCTACACCCTGCAGAATCACTATTACCGAACAATAGTTTTACAGCT
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GGCCAAGAAATTAAGAAATGAAGAAGGAGCTTTCTCCAGCAGGAAGCATCTCGAAGAACAGCCCTGCC
ACACTCTTTGAAGTTCTGACACATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225978 representing NM_001134477
 Red=Cloning site Green=Tags(s)

MEIIRSNFKSNLHKVYQAIIEADFFAIDGFEFSGISDGPVSVALTNGFDTPPEERYQKLKKHSMDFLLFQFG
 LCTFKYDYTDSKYITKSFNFYVFPKPFNRSSPDVKFVCQSSSIDFLASQGFDFNKVFRNGIPYLNQEEER
 QLREQYDEKRSQANGAGALSYVSPNTSKCPVTIPEDQKKFIDQVVEKIEDLLQSEENKNDLEPCTGFQR
 KLIYQTL~~SWKYPKGIHVETLETEKKERYIVISKVDEEERKRREQQKHAKQEELND~~AVGFSRVIHAIANS
 GKLVIGHNMLLDVMHTVHQFYCPLPADLSEFKEMTTCVFPRLD~~T~~KLMASTQPFKDIINNTSLAELEKRL
 KETPFNPPKVESAE~~GFPSYDTASEQLHEAGYDAYITGLCFIS~~MANYLGSFLSPPKIHVSARSKLIEPFFN
 KLFLMRVMDIPYLNLE~~GPLDQPKRDHVLHVT~~FPKEWKTSDLYQLFSAFGNIQISWIDDTSAFVLSQPEQ
 VKIAVNTSKYAESYRIQTYAEYMG~~RKQEEKQIKR~~KWTE~~DSWKEADSKRLNPQCIPYTLQNHYYR~~NNSFTA
 PSTV~~GKRNLSPSQEEAGLEDGVS~~GEISDTELEQTDS~~CAEPLSEGRK~~KAKKLKRMK~~ELSPAGS~~ISKNSPA
 TLFEVPDTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

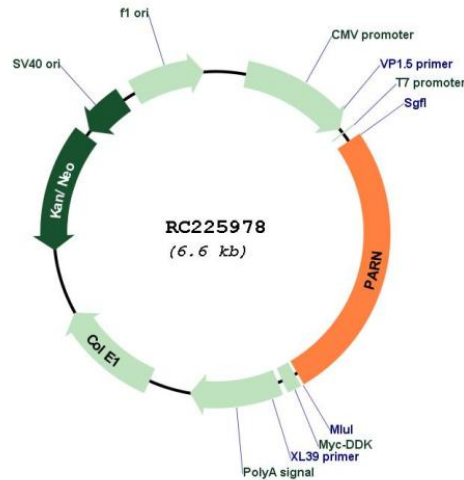
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001134477

ORF Size: 1920 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_001134477.1](#), [NM_001134477.2](#), [NP_001127949.1](#)

RefSeq Size: 3000 bp

RefSeq ORF: 1737 bp

Locus ID: 5073

UniProt ID: [O95453](#)

Cytogenetics: 16p13.12

Protein Families: Transcription Factors

Protein Pathways: RNA degradation

MW: 73.5 kDa

Gene Summary: The protein encoded by this gene is a 3'-exoribonuclease, with similarity to the RNase D family of 3'-exonucleases. It prefers poly(A) as the substrate, hence, efficiently degrades poly(A) tails of mRNAs. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs. This protein is also involved in silencing of certain maternal mRNAs during oocyte maturation and early embryonic development, as well as in nonsense-mediated decay (NMD) of mRNAs that contain premature stop codons. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]