

## Product datasheet for **RC234514**

### **PARN (NM\_001242992) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PARN (NM_001242992) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARN
Synonyms:	DAN; DKCB6; PFBMFT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234514 representing NM\_001242992  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGATAATCAGGAGCAATTTTAAGAGTAATCTTCACAAAGTGTACCAGGCCATAGAGGAGGCCGACT  
 TCTTCGCCATCGATGGGAGTTTCAGGAATCAGTGATGGACCTTCAGTCTCTGCATTAACAAATGGTTT  
 TGACACTCCAGAAGAGAGATCCTCACCAGATGTCAAATTTGTTTGTGAGACTCCAGCATTGACTTTCTA  
 GCAAGCCAGGATTTGATTTTAATAAAGTTTTTCGAAATGGAATTCATATTTAAATCAGGAAGAAGAAA  
 GACAGTTAAGAGAGCAGTATGATGAAAAACGTTACAGGCGAATGGTGCAGGAGCTCTGCCTATGTATC  
 TCCTAACACTTCAAAATGTCCTGTCACGATTCTGAGGATCAAAAGAAGTTTATTGACCAAGTGGTAGAG  
 AAAATAGAGGATTTATTACAAAGTGAAGAAAACAAGAAGTTGATTTAGAGCCATGTACCGGTTCCAAA  
 GAAAATAATTTATCAGACTTTGAGCTGGAAGTATCCGAAAGGCATTGTTGAGACTTTAGAACTGA  
 AAAGAAGGAGCGATATAGTTATCAGCAAAGTAGATGAAGAAGAACGAAAAGAAGAGAGCAGCAGAAA  
 CATGCCAAAGAACAGGAGGAGCTGAATGATGCTGTGGGATTTTCTAGAGTCATTCAGCCATTGCTAATT  
 CGGGAAAACCTGTTATTGGACACAATATGCTCTTGGACGTCATGCACACAGTTTATCAGTTCTACTGCC  
 TCTGCCTGCGGACTTAAGTGAGTTAAAGAGATGACAACATGTGTTTTCCCAGACTCTTGGATACTAAA  
 TTGATGGCCAGCACACAACCTTTAAGGATATCATTAAACAACACATCCCTTGCAGGAAATGGAAAAGCGGT  
 TAAAAGAGACACCTTTCAACCCTCTAAAGTTGAAAGTGCCGAAGGTTTTCCAAGTTATGACACAGCCTC  
 TGAACAACTCCACGAGGAGGCTACGATGCCTACATCACAGGGCTGTGCTTATCCTCCATGGCAATTAC  
 CTAGGTTCTTTTCTCAGCCCTCCAAAAATTCATGTGTCTGCCAGATCAAACTCATTGAACCTTTTTTTA  
 ACAAGTATTTTCTTATGAGGGTTCATGGATATCCCCTATCTAAACTTGAAGGACCAGACTGCAGCTTAA  
 ACGTGATCATGTTCTCCATGTGACATTCGCCAAAGAATGGAAAACCAGCGACCTTTACCAGCTTTTCAGT  
 GCCTTTGGTAACATTCAGATATCCTGGATTGATGACACATCAGCATTGTTTCCCTTAGCCAGCCCGAGC  
 AAGTAAAGATTGCTGCAATACCAGCAAATATGCAGAAAGCTATCGGATCCAAACCTATGCTGAATATAT  
 GGGGAGAAAACAGGAAGAGAAGCAGATCAAAAGAAAGTGGACTGAAGATAGCTGGAAGGAGGCTGACAGC  
 AAACGGTTAAACCCCAAGTGCATACCCTACACCCTGCAGAATCACTATTACCGCAACAATAGTTTTACAG  
 CTCCCAGCACAGTAGGAAAGAGAAATTTGAGTCTAGTCAAGAGGAAGCTGGCCTGGAGGACGGAGTGC  
 AGGGGAGATTTCCGACACTGAGCTTGTGACAGCCGATTCTGTGACAGAGCCCTCTCAGAGGGAAGGAAA  
 AAGGCCAAGAAATTAAGAAGTGAAGAAGGAGCTTTCTCCAGCAGGAAGCATCTCGAAGAACAGCCCTG  
 CCACACTTTTGAAGTCTGACACATGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234514 representing NM\_001242992  
 Red=Cloning site Green=Tags(s)

MEIIRSNFKSNLHKVYQAIIEEADFFAIDGEFSGISDGPVSVALTNGFDTPEERSSPDVKFVCQSSSIDFL  
 ASQGFDFNKVFRNGIPYLNQEEERQLREQYDEKRSQANGAGALSYVSPNTSKCPVTIPEDQKKFIDQVVE  
 KIEDLLQSEENKNDLEPCTGFQRKLIYQTL SWKYPKGIHVETLETEKKERYIVISKVDEEERKRREQQK  
 HAKEQEELNDVGF SRVIHAIANSGLVIGHNMLLDVMHTVHQFYCLPADLSEFKEMTTCVPRLLDTK  
 LMASTQPFKDIINNTSLAELEKRLKETPFNPPKVESAE GFPSYDTASEQLHEAGYDAYITGLCFISMANY  
 LGSFLSPPKIHVSARSKLIEPFFNKLFLMRVMDIPYLNLEGPDLQPKRDHVLHVTFPKWKTS DLYQLFS  
 AFGNIQISWIDDTSAFVLSQPEQVKIAVNTSKYAESYRIQTYAEYMRKQEEKQIKRKWTEDSWKEADS  
 KRLNPQCIPYTLQNHYYRNNSFTAPSTVGKRNLSPSQEEAGLEDGVSGEISDTELEQTDSCAEPLSEGRK  
 KAKKLRMKKELSPAGSISKNSPATLFEVPDTW

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001242992

ORF Size: 1779 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\\_001242992.2](#)

RefSeq Size: 2945 bp

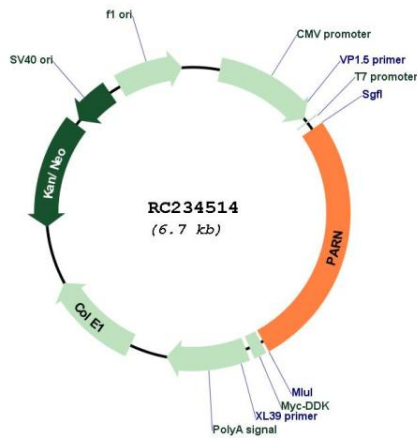
RefSeq ORF: 1782 bp

Locus ID: 5073

UniProt ID: [O95453](#)

<b>Cytogenetics:</b>	16p13.12
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	RNA degradation
<b>MW:</b>	68.2 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC234514