

Product datasheet for **RG207220**

PARN (NM_002582) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARN (NM_002582) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARN
Synonyms:	DAN; DKCB6; PFBMFT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207220 representing NM_002582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATAATCAGGAGCAATTTTAAGAGTAATCTTCACAAAGTGTACCAGGCCATAGAGGAGGCCGACT
 TCTTCGCCATCGATGGGAGTTTTTCAGGAATCAGTGATGGACCTTCAGTCTCTGCATTAACAAATGGTTT
 TGACACTCCAGAAGAGAGGTATCAGAAGCTTAAAAAGCATTCCATGGACTTTTTGCTATTTTCAGTTTGGC
 CTTTGCACCTTTAAGTATGACTACACAGATTCAAAGTATAAACGAAGTCATTTAACTTCTATGTTTTCC
 CGAAACCTTCAATAGATCCTCACCAGATGTCAAATTTGTTTGCAGAGCTCCAGCATTGACTTTCTAGC
 AAGCCAGGATTTGATTTAATAAAGTTTTTCGAAATGGAATCCATATTTAAATCAGGAAGAAGAAAGA
 CAGTTAAGAGAGCAGTATGATGAAAAACGTTACAGGCGAATGGTGCAGGAGCTCTGTCTATGTATCTC
 CTAACACTTCAAATGTCCTGTCAGGATTCCTGAGGATCAAAGAAGTTTATTGACCAAGTGGTAGAGAA
 AATAGAGGATTTATTACAAAGTGAAGAAAACAAGAACTTGGATTTAGAGCCATGTACCGGTTTCAAAGA
 AAATAATTTTATCAGACTTTGAGCTGGAAGTATCCGAAAGGCATTTCATGTTGAGACTTTAGAAAAGTAAA
 AGAAGGAGCGATATATAGTTATCAGCAAAGTAGATGAAGAAGAACGAAAAGAAGAGAGCAGCAGAAACA
 TGCCAAAGAACAGGAGGAGCTGAATGATGCTGTGGGATTTTCTAGAGTCACTTACGCCATTGCTAATTCG
 GGAAAACCTTGTTATTGGACACAATATGCTCTTGGACGTCATGCACACAGTTTCATCAGTTCTACTGCCCTC
 TGCTGCGGACTTAAGTGAGTTTAAAGAGATGACAACATGTGTTTTCCCAAGCTTTGGATACTAAATT
 GATGGCCAGCACACAACCTTTTAAAGGATATCATTAAACAACATCCCTTGCGGAATTGGAAAAGCGGTTA
 AAAGAGACACCTTTCAACCTCCTAAAGTTGAAAGTGCCGAAGTTTTCCAAGTTATGACACAGCCTCTG
 AACCACTCCACGAGGACAGGCTACGATGCCTACATCACAGGCTGTGCTTCATCTCCATGGCCAATTA
 AGTTCTTTTTCTCAGCCCTCCAAAAATTCATGTGTCTGCCAGATCAAACCTATTGAACCTTTTTTTAAC
 AAGTTATTTCTTATGAGGTCATGGATATCCCCTATCTAAACTTGAAGGACCAGACTTGCAGCCTAAAC
 GTGATCATGTTCTCCATGTGACATTTCCCAAGAATGGAAAACCAGCGACCTTTACCAGCTTTTTCAGTGC
 CTTTGGTAACATTCAGATATCCTGGATTGATGACACATCAGCATTTGTTTCCCTTAGCCAGCCCGAGCAA
 GTAAAGATTGCTGTCAATACCAGCAAATATGCAGAAAGCTATCGGATCCAAACCTATGCTGAATATATGG
 GGAAAAACAGGAAGAGAAGCAGATCAAAGAAGTGGACTGAAGATAGCTGGAAGGAGGCTGACAGCAA
 ACGGTTAAACCCAGTGCATACCCTACACCCTGCAGAATCACTATTACCGAACAATAGTTTTACAGCT
 CCCAGCACAGTAGAAAGAGAAATTTGAGTCTAGTCAAGAGGAAGCTGGCCTGGAGGACGGAGTGTGAG
 GGAGATTTCCGACACTGAGCTTGGAGCAGACCGATTCTGTGCAGAGCCCTCTCAGAGGGAAGGAAAAA
 GGCCAAGAAATTAAGAAGTGAAGAAGGAGCTTTCTCCAGCAGGAAGCATCTCGAAGAACAGCCCTGCC
 ACACTCTTTGAAGTTCTGACACATGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207220 representing NM_002582
 Red=Cloning site Green=Tags(s)

MEIIRSNFKSNLHKVYQAIEEADFFAIDGFEFSGISDGPVSVALTNGFDTPPEERYQKLLKHSMDLFLFQFG
 LCTFKYDYDTSKYITKSFNFYVFPKPFNRSSPDVKFVCQSSSIDFLASQGFDFNKVFRNGIPYLNQEEER
 QLREQYDEKRSQANGAGALSYVSPNTSKCPVTIPEDQKKFIDQVVEKIEDLLQSEENKNDLEPCTGFQR
 KLIYQTLQSWKYPKGIHVETLETEKKERYIVISKVDEEERKRREQQKHAKEQEELNDVAVGFSRVIHAIANS
 GKLVIHGNMLLDVMHTVHQFYCPLPADLSEFKEMTTCVFPRLLDTKLMASQTQPKDIINNTSLAELEKRL
 KETPFNPPKVESAEFGPSYDTASEQLHEAGYDAYITGLCFISMANYLGSFLSPPKIHVSARSKLIEPFFN
 KLFLMRVMDIPYLNLEGPDLQPKRDHVLHVTFPKWKTSPLYQLFSAFGNIQISWIDDTSAFVLSQPEQ
 VKIAVNTSKYAESYRIQTYAEYMRKQEEKQIKRKWTEDSWKEADSKRLNPQCIPYTLQNHYYRNNSTFA
 PSTVGRKRLSPSQEEAGLEDGVSGEISDTELEQTDSCAEPLSEGRKKAKKLRMKKELSPAGSISKNSPA
 TLFEVPDWTW

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_002582

ORF Size: 1917 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_002582.4](#)

RefSeq Size: 2984 bp

RefSeq ORF: 1920 bp

Locus ID: 5073

UniProt ID: [O95453](#)

Cytogenetics: 16p13.12

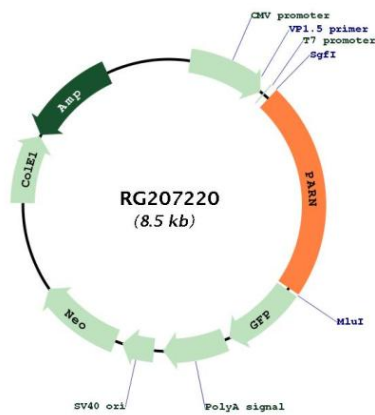
Domains: R3H, CAF1

Protein Families: Transcription Factors

Protein Pathways: RNA degradation

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]

Product images:



Circular map for RG207220