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Product datasheet for MR209527

Parn (NM_028761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parn (NM_028761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Parn
Synonyms:	1200003I18Rik; DAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR209527 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGATAATCCGGAGCAATTTTAAGATTAATCTTCACAAAGTGTACCAGGCCATAGAGGAGGCTGACT
TCTTCGCCATCGATGGGGAGTTTTCAGGAATCAGCGATGGACCCTCAGTAACAGCATTAACAAGTGGTTT
TGACACCCCAGAAGAGAGATATCAGAAGCTTAAAAAGCATTCCATGGACTTTTTGCTGTTTCAGTTTGGC
CTTTGTGCTTTTAAGTATGACCACACAGATTCCAAGCATGTAACGAAGTCATTTAACTTCTATGTTTTCC
CCAAGCCTTTCAGTAGGTCCTCACCAGATGTCAAGTTTGTTTGCCAGAGCTCCAGCATTGACTTCCTGGC
GAGCCAAGGATTTGACTTTAATAAAGTGTTTTGCAGTGGGATTCCATATCTGAATCAGGAAGAAGAAAGG
CAGCTGAGAGAGCAATTCGATGAAAAACGGTCTCAAGCCAATGGGGCAGGAGCTCTGGCAAAATGTCCTG
TGACCATCCCTGAGGATCAGAAGAAGTTTATTGACCAAGTAATAGAGAAGATAGAGGATTTCCTACAAAG
TGAAGAGAAGAGGAGCCTGGAACTTGACCCATGCACTGGGTTCCAAAGAAAACTTATTTATCAGACTTTG
AGTTGGAAGTATCCTAAAGGCATTCATGTTGAGACATTAGAGACTGACAAGAAGGAAAGACATATAGTTA
TCAGCAAGGTGGATGAAGAAGAACGCAAAAGGAGAGAGCAGGAGAAGTATACAAAGGAACAGGAGGAGCT
GAATGATGCTGTGGGGTTTTCAAGAGTCATCCATGCCATTGCTAATTCGGGGAAGCTGGTTGTGGGACAC
AACATGCTCTTGGATGTCATGCATACGATTCATCAGTTCTACTGCCCCCTGCCTGCGGACCTGAATGAGT
TTAAGGAGATGGCAATATGTGTCTTCCCCAGACTCTTGGATACTAAGTTGATGGCCAGCACACAGCCTTT
TAAGGATATCATTAACAACACATCCCTTGCAGAGTTGGAAAAGCGGTTGAAAGAGACACCTTTTGACCCT
CCCAAAGTTGAAAGTGCAGAAGGCTTTCCAAGCTACGACACAGCTTCTGAGCAGCTTCATGAGGCGGGGT
ACGATGCCTACATCACAGGGCTCTGCTTCATCTCCATGGCAAATTACTTAGGTTCTTTACTCAGTCCTCC
AAAAATGTGTGTGTCTGCCAGATCAAAGCTCATTGAACCCTTTTTTAACAAGTTATTTCTTATGAGGGTC
ATGGATATTCCCTATTTAAACTTGGAAGGGCCAGACTTGCAGCCTAAGCGGGACCATGTTCTCCACGTGA
CCTTCCCCAAAGAGTGGAAAACCAGCGACCTGTACCAGCTCTTCAGCGCCTTCGGTAACATTCAGATATC
CTGGATTGATGATACATCAGCCTTCGTTTCTCTCAGCCAGCCAGAACAAGTACAAATTGCCGTTAATACC
AGCAAGTACGCTGAAAGTTATCGGATCCAGACCTATGCTGAGTATGTGGGAAAGAAGCAGGAAGGCAAGC
AGGTCAAGAGGAAGTGGACAGAAGACAGTTGGAAGGAGGTGGACAGAAAGCGGCCCCACATGCAGGGCCC
CTGTTACCACAGCAACAGCTTCACAGCAGCTGGCGTGCTTGGAAAGAGAACGCTGAGTCCTGACCCAAGG
GAAGCTGCCTTGGAGGACAGAGAATCAGAGGAGGTATCTGACTCGGAGCTTGAACAGACAGATTCCTGTA
CAGACCCCCTCCCAGAGGGAAGGAAAAAGTCCAAGAAGTTAAAACGAATGAAGAAGGAGCTTTCCTTGGC
AGGAAGTGTCTCGGATAGCCCTGCCGTGCTCTTTGAAGTCCCTGACACATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

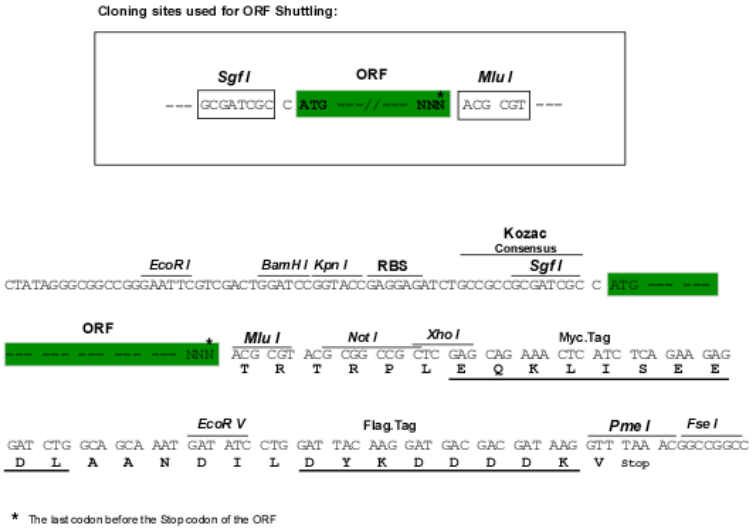
>MR209527 protein sequence
Red=Cloning site Green=Tags(s)

MEIIRSNFKINLHKVYQAIEEADFFAIDGEFSGISDGPSVTALTSGFDTPEERYQKLKKHSMDFLLFQFG
LCAFKYDHTDSKHVTKSFNFYVFPKPFSRSSPDVKFVCQSSSIDFLASQGFDFNKVFCSGIPYLNQEEER
QLREQFDEKRSQANGAGALAKCPVTIPEDQKKFIDQVIEKIEDFLQSEEKRSLELDPCTGFQRKLIYQTL
SWKYPKGIHVETLETDKKERHIVISKVDEEERKRREQEKYTKEQEELNDAVGFSRVIHAIANSGKLVVGH
NMLLDVMHTIHQFYCPLPADLNEFKEMAICVFPRLLDTKLMASTQPFKDIINNTSLAELEKRLKETPFDP
PKVESAEGFPSYDTASEQLHEAGYDAYITGLCFISMANYLGSLLSPPKMCVSARSKLIEPFFNKLFLMRV
MDIPYLNLEGPDLQPKRDHVLHVTFPKEWKTSDLYQLFSAFGNIQISWIDDTSAFVSLSQPEQVQIAVNT
SKYAESYRIQTYAEYVGKKQEGKQVKRKWTEDSWKEVDRKRPHMQGPCYHSNSFTAAGVLGKRTLSPDPR
EAALEDRESEEVSDSELEQTDSCTDPLPEGRKKSKKLKRMKKELSLAGSVSDSPAVLFEVPDTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_028761

ORF Size: 1875 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_028761.1, NM_028761.2, NM_028761.3, NP_083037.1

RefSeq Size: 2902 bp

RefSeq ORF: 1875 bp

Locus ID: 74108

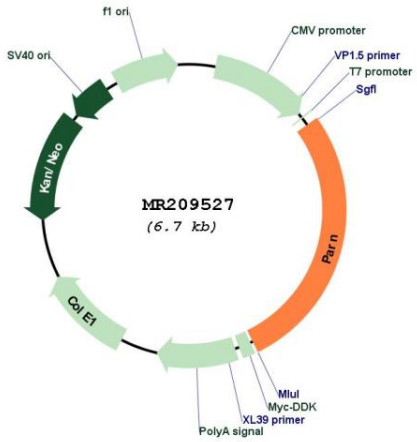
UniProt ID: Q8VDG3

Cytogenetics: 16 A1

MW: 71.6 kDa

Gene Summary: 3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development. Interacts with both the 3'-end poly(A) tail and the 5'-end cap structure during degradation, the interaction with the cap structure being required for an efficient degradation of poly(A) tails. Involved in nonsense-mediated mRNA decay, a critical process of selective degradation of mRNAs that contain premature stop codons. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3' UTR, possibly via its interaction with KHSRP. Probably mediates the removal of poly(A) tails of AREs mRNAs, which constitutes the first step of destabilization (By similarity). Also able to recognize poly(A) tails of microRNAs such as MIR21 and H/ACA box snoRNAs (small nucleolar RNAs) leading to leading to microRNAs degradation or snoRNA increased stability (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209527