

Product datasheet for **MG209527**

Parn (NM_028761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parn (NM_028761) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Parn
Synonyms:	1200003I18Rik; DAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209527 representing NM_028761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATAATCCGGAGCAATTTTAAGATTAATCTTCACAAAGTGTACCAGGCCATAGAGGAGGCTGACT
 TCTTCGCCATCGATGGGGAGTTTTTCAGGAATCAGCGATGGACCCTCAGTAACAGCATTAAACAAGTGTTT
 TGACACCCCAAGAAGAGATATCAGAAGCTTAAAAAGCATTCCATGGACTTTTTGCTGTTTCAGTTTGGC
 CTTTGTGCTTTTAAGTATGACCACACAGATTCCAAGCATGTAACGAAGTCATTTAACTTCTATGTTTTCC
 CCAAGCCTTTCAGTAGGTCCTACCAGATGTCAAGTTTGTGGCCAGAGCTCCAGCATTGACTTCTGCGC
 GAGCCAAGGATTTGACTTTAATAAAGTGTGGCAGTGGGATTCCATATCTGAATCAGGAAGAAGAAAGG
 CAGCTGAGAGAGCAATTCGATGAAAAACGGTCTCAAGCCAATGGGGCAGGAGCTCTGGCAAATGTCCTG
 TGACCATCCCTGAGGATCAGAAGAAGTTTATTGACCAAGTAATAGAGAAGATAGAGGATTTCTACAAG
 TGAAGAGAAGAGGAGCCTGGAACCTGACCCATGCACTGGGTTCCAAAGAAAACCTATTTATCAGACTTTG
 AGTTGGAAGTATCCTAAAGGCATTCATGTTGAGACATTAGAGACTGACAAGAAGGAAAGACATATAGTTA
 TCAGCAAGGTGGATGAAGAAGAACGCAAAAGGAGAGAGCAGGAGAAGTATACAAAGGAACAGGAGGAGCT
 GAATGATGCTGTGGGTTTTCAAGAGTCATCCATGCCATTGCTAATTCGGGGAAGCTGGTTGTGGGACAC
 AACATGCTCTTGATGTCATGCATACGATTTCATCAGTTCTACTGCCCCCTGCCTGCGGACCTGAATGAGT
 TTAAGGAGATGGCAATATGTGCTTCCCGAGACTTTGGATACTAAGTTGATGGCCAGCACACAGCCTTT
 TAAGGATATCATTAAACACATCCCTTGAGAGTTGGAAAAGCGGTTGAAAGAGACACCTTTTGACCT
 CCCAAAGTTGAAAGTGCAGAAGGCTTCCAAGCTACGACACAGCTTCTGAGCAGCTTCATGAGCGGGGT
 ACGTAGCTACATCAGGGCTCTGCTTCATCTCCATGGCAAATTACTTAGGTTCTTTACTCAGTCTCTCC
 AAAAATGTGTGTCTGCCAGATCAAAGCTCATTGAACCCTTTTTAAACAAGTTATTTCTTATGAGGGTC
 ATGGATATTCCTATTTAACTTGAAGGGCCAGACTTGACGCTAAGCGGGACCATGTTCTCCACGTGA
 CCTTCCCAAAGAGTGGAAAACCAGCGACTGTACCAGCTCTCAGCGCCTTCGGTAACATTAGATATC
 CTGGATTGATGATACATCAGCCTCGTTTCTCTCAGCCAGCCAGAACAAGTACAAATTGCCGTTAATACC
 AGCAAGTACGCTGAAAGTTATCGGATCCAGACCTATGCTGAGTATGTGGGAAAGAAGCAGGAAGGCAAGC
 AGGTCAAGAGGAAGTGGACAGAAGACAGTTGGAAGGAGGTGGACAGAAAGCGGCCCCACATGCAGGGCCC
 CTGTTACCACAGCAACAGCTTACAGCAGCTGGCGTGTGGAAAGAGAAGCAGTCTGAGTCTGACCCAAAG
 GAAGCTGCCTTGAGGACAGAGAATCAGAGGAGGTATCTGACTCGGAGCTTGAACAGACAGATTCCTGTA
 CAGACCCCTCCAGAGGGAAGGAAAAAGTCCAAGAAGTAAAACGAATGAAGAAGGAGCTTTCCTTGGC
 AGGAAGTGTCTCGGATAGCCCTGCCGTGCTCTTTGAAGTCCCTGACACATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209527 representing NM_028761
 Red=Cloning site Green=Tags(s)

MEIIRSNFKINLHKVYQAIEEADFFAIDGFEFSGISDGPSTALTSGFDTPEERYQKLKHSMDFLLFQFG
 LCAFKYDHTDSKHVTKSFNFYVFPKPF SRSSPDVKFVCQSSSIDFLASQGFDFNKVFCGIPYLNQEEER
 QLREQFDEKRSQANGAGALAKCPVTIPEDQKKFIDQVIEKIEDFLQSEEKRSLELDPCTGFQRKLIYQTL
 SWKYPKGIHVETLETDKKERHIVISKVDEEERKRREQEYKKEEELNDAVGFSRVIHAIANSGLVVGH
 NMLLDVMHTIHQFYCPLPADLNEFKEMAICVFPRLDTKLMASQPFKDIINNTSLAELEKRLKETPFDP
 PKVESAEGFPSYDTASEQLHEAGYDAYITGLCFISMANYLGSLLSPPKMCVSARSKLIIEFFNKLFLMRV
 MDIPYLNLEGPDLQPKRDHVLHVTFPKEWKTSDLYQLFSAFGNIQISWIDDTSAFVLSQPEQVQIAVNT
 SKYAESYRIQTYAEYVGKKQEGKQVVKRWTEDSWKEVDRKRPHMQGPCYHSNSFTAAGVLGKRTLSPDPR
 EAALDRESEEVSDSELEQTDSDTDLPEGRKSKLKRKMKELSLAGSVSDSPAVLFEVPDWT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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 , NP_083037.1
RefSeq Size:	2903 bp
RefSeq ORF:	1875 bp
Locus ID:	74108
UniProt ID:	Q8VDG3
Cytogenetics:	16 A1
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]