

Product datasheet for **RC237063**

PRUNE (PRUNE1) (NM_001303229) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRUNE (PRUNE1) (NM_001303229) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PRUNE1
Synonyms: DRES-17; DRES17; H-PRUNE; HTCD37; NMIHBA; PRUNE
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237063 representing NM_001303229
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCTTAAAATTGGAAAGGCAACCCCAAAGGACAGCAAATATGTGGAGAACTAGAGGCCCTTTCC
CAGACCTACCCAAGAGAAATGATATATTTGATTCCCTACAAAAGGCAAAGTTTGATGTATCAGGACTGAC
CACTGAGCAGATGCTGAGAAAAGACCAGAAGACTATCTATAGACAAGGCGTCAAGGTGGCCATTAGTGCA
ATATATATGGATTTGGAGCCTTTCTGCAGAGGTCTAACCTCCTTGCAGATCTCCATGCTTCTGCCAGG
CTCACAGCTATGATGTCCTGGTTGCCATGACTATCTTTTTCAACACTCACAATGAGCCAGTGCGGCAGTT
GGCTATTTTCTGTCCCATGTGGCACTCCAACAACGATCTGTGAAGTCCTGGAACGCTCCCACTCTCCA
CCCCTGAAGCTGACCCCTGCCTCAAGTACCCACCTAACCTCCATGCCTATCTTCAAGGCAACCCAGG
TCTCTCGAAAGAACTTCTGCCCTGCTCCAGGAAGCCCTGTGAGCATATTTGACTCCATGAAGATCCC
TTCAGGACAGCCTGAGACAGCAGATGTGTCCAGGAGCAAGTGGACAAGGAATTGGACAGGGCAAGTAAC
TCCCTGATTTCTGGCCTGAGTCAAGATGAGGAGACCCCTCCGCTGCCCCGACGCCATGAACAGCTTGG
TGGATGAGTGCCCTCTAGATCAGGGGCTGCCTAACTCTGCTGAGGCCGTCTTCGAGAAGTGCAGTCA
GATCTCACTGTACAGTCTACCACAGCCTCCCTGTCCAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237063 representing NM_001303229
Red=Cloning site Green=Tags(s)

MDLKIGKATPKDSKYVEKLEALFPDLPKRNDIFDSLQKAKFDVSGLTTEQMLRKDQKTIYRQGVKVAISA
 IYMDLEAFLQRSNLLADLHAFCAHSYDVLVAMTIFFNTHNEPVRQLAIFCPHVALQTTICEVLESHSP
 PLKLT PASSTHPNLHAYLQGNTQVSRKLLPLLQEAL SAYFDSMKIPSGQPETADVSREQVDKELDRASN
 SLISGLSQDEEDPPLPPTPMNSLVDECPDQGLPKLSAEAVFEKCSQISLSQSTTASLSKK

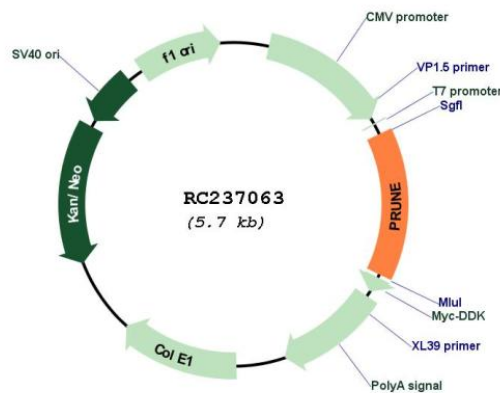
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303229
 ORF Size: 813 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:	<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_001303229.2
RefSeq Size:	2898 bp
RefSeq ORF:	816 bp
Locus ID:	58497
UniProt ID:	Q86TP1
Cytogenetics:	1q21.3
Protein Pathways:	Purine metabolism
MW:	30.6 kDa
Gene Summary:	This gene encodes a member of the DHH protein superfamily of phosphoesterases. This protein has been found to function as both a nucleotide phosphodiesterase and an exopolyphosphatase. This protein is believed to stimulate cancer progression and metastases through the induction of cell motility. A pseudogene has been identified on chromosome 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]