

Product datasheet for **RC206865**

PRUNE (PRUNE1) (NM_021222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRUNE (PRUNE1) (NM_021222) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRUNE
Synonyms:	DRES-17; DRES17; H-PRUNE; HTCD37; NMIHBA; PRUNE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206865 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGACTACCTGCAGGGTTGTCGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAA
 ATGAAGCCTGTGATTTGGACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTACCTAGCAAAGACAAGTGA
 GGCTGAGGAAGTCTTTGTGCCAGTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGGTGACATTGTC
 TTCTTTCTTCAGAAGTTCATATCCAGAGAGTATCTTGATTTTTCGGGATGAGATTGACCTCCATGCAT
 TATACCAGGCTGGCCAACTCACCTCATCTTGTGACCATCATATCTTATCCAAAAGTGACACAGCCCT
 AGAGGAGGCAGTAGCAGAGGTGCTAGACCATCGACCCATCGAGCCGAAACTGCCCTCCCTGCCATGTT
 TCAGTTGAGCTGGTGGGGTCTGTGCTACCCTGGTGACCGAGAGAATCCTGCAGGGGGCACCAGAGATCT
 TGGACAGGCAAAGTGCAGCCCTTCTGCATGGAACCATCATCTGGACTGTGTCAACATGGACCTTAAAT
 TGGAAAGCAACCCAAAGGACAGCAAATATGTGGAGAACTAGAGGCCCTTTCCAGACCTACCCAAG
 AGAAATGATATATTTGATTCCTACAAAAGCAAAGTTTATGATGATCAGGACTGACCACTGAGCAGATGC
 TGAGAAAAGACCAGAAGACTATCTATAGACAAGGCGTCAAGGTGGCCATTAGTGCAATATATATGGATT
 GGAGGCCCTTCTGAGAGGTCTAACCTCCTTGCAGATCTCCATGCTTTCTGCCAGGCTCACAGCTATGAT
 GTCCTGGTTGCCATGACTATCTTTTCAACACTCACAATGAGCCAGTGCGGCAGTTGGCTATTTTCTGTC
 CCCATGTGGCACTCCAACAACGATCTGTGAAGTCTGGAACGCTCCCACTCTCCACCCCTGAAGCTGAC
 CCCTGCCTCAAGTACCCACCCTAACCTCCATGCCTATCTCAAGGCAACCCAGGTCTCTCGAAAGAAA
 CTTCTGCCCTGCTCCAGGAAGCCCTGTCAGCATATTTGACTCCATGAAGATCCCTTCCAGGACAGCCTG
 AGACAGCAGATGTGTCAGGGAGCAAGTGGACAAGGAATTGGACAGGGCAAGTAACTCCCTGATTCTG
 ACTGAGTCAAGATGAGGAGGACCTCCGCTGCCCCGACGCCATGAACAGCTTGGTGGATGAGTGCCT
 CTAGATCAGGGGCTGCCTAAACTCTCTGCTGAGGCCGCTTTCGAGAAGTGCAGTCAGATCTCACTGTCAC
 AGTCTACCACAGCCTCCCTGTCCAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206865 protein sequence
 Red=Cloning site Green=Tags(s)

MEDYLQGCRAALQESRPLHVVLGNEACDLSTVSALALAFYLAKTTEAEEVFPVNLNIKRSELPLRGDIV
 FFLQKVHIPPESILIFRDEIDLHALYQAGQLTLILVDHILSKSDTAL EEVAEVL DHRPIEPKHCPPCHV
 SVELVGSCATLVTERILQGAPEILDRQTAALLHGTIILDCVNMDLKIGKATPKDSKYVEKLEALFPDLPK
 RNDIFDSLQKAKFDVSGLTTEQMLRKDQKTIYRQGVKVAISAIYMDLEAFLQRSNLLADLHAFCAHSYD
 VLVAMTIFFNTHNEPVRQLAIFCPHVALQTTICEVLESHSPPLKLT PASSTHPNLHAYLQGNQVSRKK
 LLPLLQEALSAYFDSMKIPSGQPETADVSREQVDKELDRASNSLISGLSQDEEDPPLPPTPMNSLVDECP
 LDQGLPKLSAEAVFEKCSQISLSQSTTASLSKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6067_f05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021222

ORF Size: 1359 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021222.1](#), [NP_067045.1](#)

RefSeq Size: 2995 bp

RefSeq ORF: 1362 bp

Locus ID: 58497

UniProt ID: [Q86TP1](#)

Cytogenetics: 1q21.3

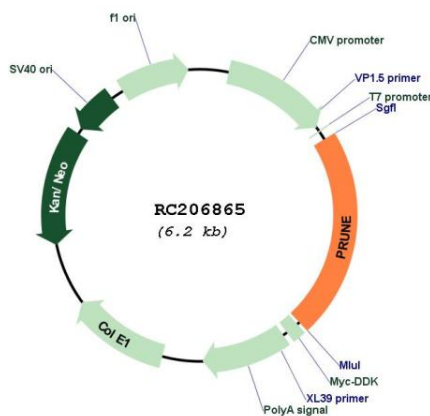
Domains: DHH, DHHA2

Protein Pathways: Purine metabolism

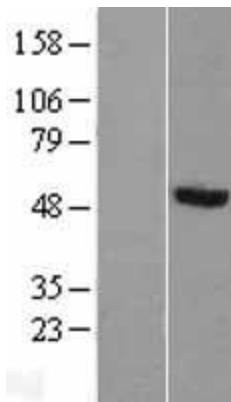
MW: 50.2 kDa

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]

Product images:



Circular map for RC206865



Western blot validation of overexpression lysate (Cat# [LY402855]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206865 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).