

## Product datasheet for **RC226493**

### Prune homolog 2 (PRUNE2) (NM\_015225) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prune homolog 2 (PRUNE2) (NM_015225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRUNE2
Synonyms:	BMCC1; BNIPXL; C9orf65; KIAA0367
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226493 representing NM_015225 Red=Cloning site Blue=ORF Green=Tags(s)

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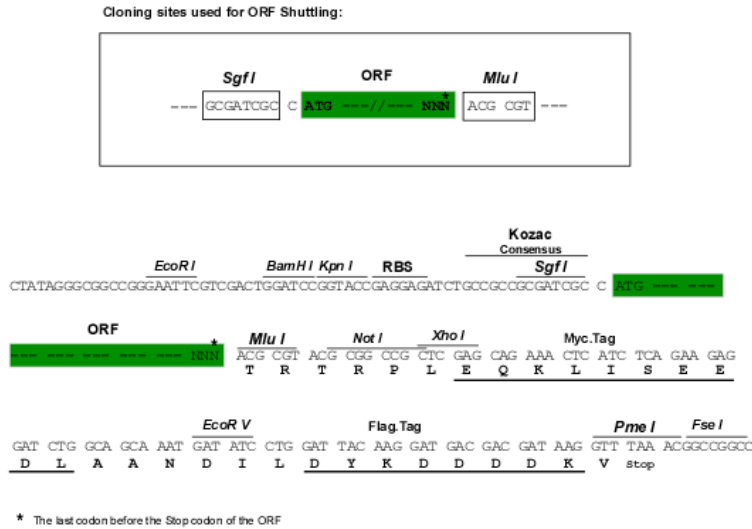
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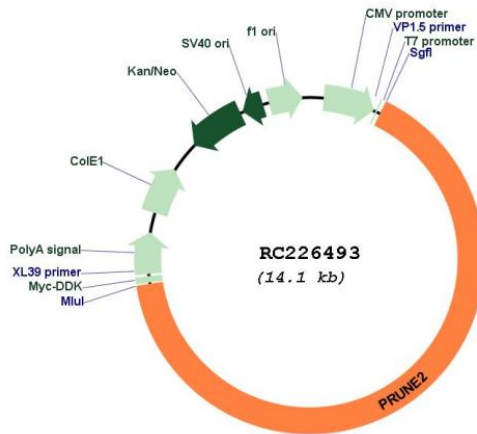
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Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_015225

ORF Size:

9264 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\\_015225.3](#)

**RefSeq ORF:** 9267 bp

**Locus ID:** 158471

**UniProt ID:** [Q8WUY3](#)

**Cytogenetics:** 9q21.2

**MW:** 340.5 kDa

**Gene Summary:** The protein encoded by this gene belongs to the B-cell CLL/lymphoma 2 and adenovirus E1B 19 kDa interacting family, whose members play roles in many cellular processes including apoptosis, cell transformation, and synaptic function. Several functions for this protein have been demonstrated including suppression of Ras homolog family member A activity, which results in reduced stress fiber formation and suppression of oncogenic cellular transformation. A high molecular weight isoform of this protein has also been shown to colocalize with Adaptor protein complex 2, beta-Adaptin and endodermal markers, suggesting an involvement in post-endocytic trafficking. In prostate cancer cells, this gene acts as a tumor suppressor and its expression is regulated by prostate cancer antigen 3, a non-protein coding gene on the opposite DNA strand in an intron of this gene. Prostate cancer antigen 3 regulates levels of this gene through formation of a double-stranded RNA that undergoes adenosine deaminase actin on RNA-dependent adenosine-to-inosine RNA editing. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]