

Product datasheet for **SC123158**

Prune homolog 2 (PRUNE2) (NM_138818) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prune homolog 2 (PRUNE2) (NM_138818) Human Untagged Clone
Tag: Tag Free
Symbol: Prune homolog 2
Synonyms: BMCC1, BNIPXL, C9orf65, KIAA0367, A214N16.3, bA214N16.3
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_138818 edited
GGAGGGAGCAGTCGGTCGCTGCGCCCCGGCGGGCCACTTCCCGGACCCCGCTCGTCTT
CCTTGGGCGGAGATTTTCCACTGCGCCCTCCGAGTACCGGGTTCCAAACCCCTAGCCA
CGACATGGAAGAATTTTTCACGCGCCAAATCTAAACTGAATCGAAGCAAACGCTTGA
GAAGGTCCATGTGGTTATTGGGCCTAAATCGTGTGACTTGGATTCTCTATTTCTACCTT
CACATATGCTTACTTTCTAGACAAGGTCAGTCCACCAGGGTTCTGTGTTACCAGTGCT
GAACATACCAAGAAGTGAATTCAACTACTTACCAGAGACGAGTTTATTTTAGAAGAGCT
AAATATTTCCGAATCATTCCACATATTCGGGATGAAATTAACCTGCATCAGCTAAATGA
TGAAGGGAAGTTATCGATAACACTTGTGGCAGCAGTGTGCTGGCGAGTGAAGACAAAAC
TTTAGAATCAGCAGTTGTCAAAGTCATTAATCCGGTTGAGCAGAGCGATGCCAACGTTGA
GTTCCGAGAGTCTTCTCTCTCGTGCTAAAGGAGATTCTCCAAGAGGCTCCTGAGCT
CATCACCGAGCAACTGGCTCATCGCCTCAGAGGTAGCATTCTTTTCAAGTGGATGACCAT
GGAATCAGAGAAGATCTCAGAGAAGCAGGAGGAAATTTCTTCTATCCTGGAGAAAAAATT
TCCTAACTTGCCCTCCAAGAGAGGACATCATCAACGTCCTACAGGAGACCCAGTTCAGTGC
TCAGGGTTTAAGTATTGAACAGACAATGTTGAAAGATCTAAAGGAGCTGTGAGTGGAGA
AATAAAAGTGGCCATTAGTACTGTGAGCATGAACCTTGAGGTAAGGGTGGGAATGCTTTT
TTAGCATTGATTGATTTCCACAATTGCAGTCTGAGCAACTGGAATGTAAGTCTCTCCAT
TGGATAAGTCCATGATAGTCTTTGCTTCTTTGTGATACATTTGACTTGGAAATATAGTGG
CAGGTTATTTGGGTGAAAACACTATGCTAAGTCAATGAAAAATGCCAAACCTGGATT
CTCAAGATGAATGCTTTTCATTCTCAGTAAAACAAAGCCTAAAACAAACACTCAGA
TGTGGGTGATATTTAACCTGTTAATAGCAATTATGATATGTGTGATTAGGTTCACTTC
CATATTTTCTGTGTACCACCCTGTATTGTTTCATAGAAGCTTTTCTTAAAAAAAAAAAAAA
AAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138818 unedited NNGGTACCGTTTCAGAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACNGGG GAGGGAGCAGTCGGTCGCTGCGCCCCGGCGGGCCACTTCCCGGGACCCCGCTCGTCTTC CTTGGGCCGAGATTTTCCACTGCGCCCCCTCCGAGTACCCGGGTTCCAAACCCCTAGCCAC GACATGGGAAGAATTTTGAACGCGCCAAATCTAAACTGAATCGAAGCAAACGTTGGA GAAGGTCCATGTGGTTATTGGGCCTAAATCGTGTGACTTGGATTCTCTATTTCTACCTT CACATATGCTTACTTTCTAGACAAGGTCAGTCCACCAGGGGTTCTGTGTTTACCAGTGCT GAACATACCAAGAAGTGAATTCAACTACTTCACCGAGACGAGGTTATTTTAGAAGAGCT AAATATTTCCGAATCATTCCACATATTCCGGGATGAAATTAACCTGCATCAGCTAAATGA TGAAGGGAAGTTATCGATAACACTTGTGGCAGCAGTGTGCTGGCGAGTGAAGACAAAAC TTTAGAATCAGCAGTTGTCAAAGTCATTAATCCGGTTGAGCAGAGCGATGCCAACGTTGA GTTCCGAGAGTCTTCTTCTCTCGTGCTAAAGGAGATTCTCCAAGAGGCTCCTGAGCT CATCACCAGCAACTGGCTCATCGCTCAGAGGTAGCATTCTTTCAAGTGGATGACCAT GGAATCAGAGAAGATCTCAGAGAAGCAGGAGGAAATTCTTCTATCTGGGAGANAATTT TCCTAACTTGCCCAAGAGAGGACATCATCAACCGTCTACAGGGAGACCCAGTTTCAGT GCTCAGGGTTTTAAGTATTGAACAGGACATGTTGAAAGATCTAAAAGAGCTGTCAGAT
Restriction Sites:	Please inquire
ACCN:	NM_138818
Insert Size:	1273 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_138818.2 , NP_620173.1
RefSeq Size:	1264 bp
RefSeq ORF:	780 bp
Locus ID:	158471
Cytogenetics:	9q21.2

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]

Transcript Variant: This variant (2) differs in the 3' UTR, and lacks several exons in the 3' coding region, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 1.