

Product datasheet for RG205712

Prune homolog 2 (PRUNE2) (NM_138818) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Prune homolog 2

Synonyms: BMCC1, BNIPXL, C9orf65, KIAA0367, A214N16.3, bA214N16.3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205712 representing NM_138818

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAAGAATTTTTGCAACGCGCCAAATCTAAACTGAATCGAAGCAAACGCTTGGAGAAAGGTCCATGTGG
TTATTGGGCCTAAATCGTGTGACTTGGATTCTCTCATTTCTACCTTCACATATGCTTACTTTCTAGACAA
GGTCAGTCCACCAGGGGTTCTGTGTTTACCAGTGCTGAACATACCAAGAACTGAATTCAACTACTTCACC
GAGACGAGGTTTATTTTAGAAGAGCTAAATATTTCCGAATCATTCCACATATTCCAGGATGAAATTAACC
TGCATCAGCTAAATGATGAAGGGAAGTTATCGATAACACTTGTTGGCAGCAGTGTGCTGGCGAGTGAAGA
CAAAACTTTAGAATCAGCAGTTGTCAAAGTCATTAATCCGGTTGAGCAGAGCGATGCCAACGTTGAGTTC
CGAGAGTCTTCCTCTTCTCTCTGTGCTAAAGGAGATTCTCCAAGAGGCTCCTGAGCTCATCACCGAGCAAC
TGGCTCATCGCCTCAGAGGTAGCATTCTTTTCAAGTGGATGACCATGGAATCAGAGAAGATCTCAGAGAA
GCAGGAGGAAATTCTTTCTATCCTGGAAGAAAAATTTCCTAACTTGCCTCCAAGAGAGACATCATCAAC
GTCCTACAGGAGACCCAGTTCAGTGCTCAGGGTTTAAGTATTGAACAGACAATGTTGAAAGATCTAAAGG
AGCTGTCAGATGGAGAAAATAAAAAGTGGCCATTAGTACTGTGAGCATGAACCTTGAGGTAAGGGTAGGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205712 representing NM_138818

Red=Cloning site Green=Tags(s)

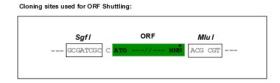
MEEFLQRAKSKLNRSKRLEKVHVVIGPKSCDLDSLISTFTYAYFLDKVSPPGVLCLPVLNIPRTEFNYFT ETRFILEELNISESFHIFRDEINLHQLNDEGKLSITLVGSSVLASEDKTLESAVVKVINPVEQSDANVEF RESSSSLVLKEILQEAPELITEQLAHRLRGSILFKWMTMESEKISEKQEEILSILEEKFPNLPPREDIIN VLQETQFSAQGLSIEQTMLKDLKELSDGEIKVAISTVSMNLEVRVGMLF

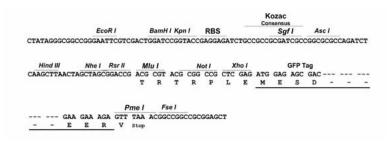
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_138818

ORF Size: 777 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).



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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: <u>NM_138818.2</u>, <u>NP_620173.1</u>

RefSeq Size: 1264 bp

RefSeq ORF: 779 bp

Locus ID: 158471

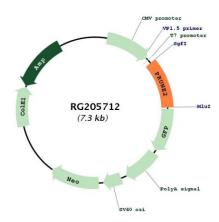
Cytogenetics: 9q21.2

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 apotosis, 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]



Product images:



Circular map for RG205712