

Product datasheet for **RC203060**

Plunc (BPIFA1) (NM_130852) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Plunc (BPIFA1) (NM_130852) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Plunc |
| Synonyms: | bA49G10.5; LUNX; NASG; PLUNC; SPLUNC1; SPURT |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC203060 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGTTTCAAACGGGGCCTCATTGTCTTCTACGGGCTGTTAGCCAGACCATGGCCCAGTTTGGAGGCC
TGCCCGTGCCCTGGACCAGACCCTGCCCTTGAATGTGAATCCAGCCCTGCCCTTGAGTCCCACAGGTCT
TGCAGGAAGCTTGACAAATGCCCTCAGCAATGGCCTGCTGTCTGGGGCCTGTTGGGCATTCTGGAAAAC
CTTCCGCTCCTGGACATCTGAAGCCTGGAGGAGTACTTCTGGTGGCCTCCTTGGGGACTGCTGGAA
AAGTGACGTCAAGTATTCTGGCCTGAACAACATCATTGACATAAAGGTCAGTACCCCCAGCTGCTGGA
ACTTGGCCTTGTGAGAGCCCTGATGGCCACCGTCTATGTACCATCCCTCTCGGCATAAAGCTCCAA
GTGAATACGCCCCCTGGTCGGTGCAAGTCTGTTGAGGCTGGCTGTGAAGCTGGACATCACTGCAGAAATCT
TAGCTGTGAGAGATAAGCAGGAGAGGATCCACCTGGTCCTTGGTACTGCACCCATTCCCCTGGAAGCCT
GCAAAATTTCTCTGCTTGATGGACTTGGCCCCCTCCCCATTCAAGGTCTTCTGGACAGCCTCACAGGGATC
TTGAATAAAGTCTGCCTGAGTTGGTTCAGGGCAACGTGTGCCCTCTGGTCAATGAGGTTCTCAGAGGCT
TGGACATACCCTGGTGCATGACATTGTTAACATGCTGATCCACGGACTACAGTTTGTATCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203060 protein sequence
Red=Cloning site Green=Tags(s)

MFQTGGLIVFYGLLAQTMAQFGGLPVPLDQTLPLNVNPALPLSPTGLAGSLTNALSNGLLGGLLGILEN
 LPLLDILKPGGGTSGLLGGLLGKVTSVIPGLNNIIDIKVTDQPQLLEGLVQSPDGHRLVYTIPLGIKIQ
 VNTPLVGASLLRLAVKLDITAEILAVRDKQERIHVLVGDCTHSPGSLQISLLDGLGPLPIQGLDLSLTGI
 LNKVLPPELVQGNVCPVNEVLRGLDITLVHDIWNMLIHGLQFVIKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6435_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_130852

ORF Size: 768 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_130852.3](#)

RefSeq Size: 1090 bp

RefSeq ORF: 771 bp

Locus ID: 51297

UniProt ID: [Q9NP55](#)

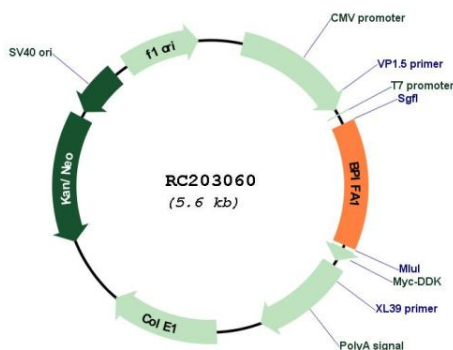
Cytogenetics: 20q11.21

Protein Families: Secreted Protein

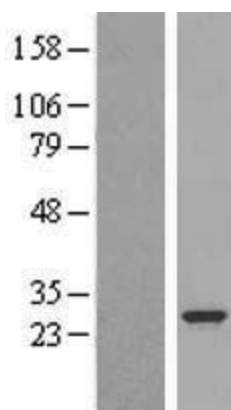
MW: 26.7 kDa

Gene Summary: This gene is the human homolog of murine plunc, and like the mouse gene, is specifically expressed in the upper airways and nasopharyngeal regions. The encoded antimicrobial protein displays antibacterial activity against Gram-negative bacteria. It is thought to be involved in inflammatory responses to irritants in the upper airways and may also serve as a potential molecular marker for detection of micrometastasis in non-small-cell lung cancer. Multiple transcript variants resulting from alternative splicing in the 3' UTR have been detected, but the full-length nature of only three are known. [provided by RefSeq, Aug 2014]

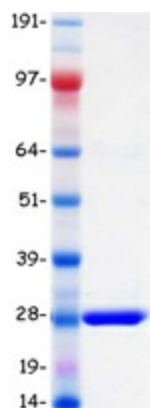
Product images:



Circular map for RC203060



Western blot validation of overexpression lysate (Cat# [LY408781]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203060 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BPIFA1 protein (Cat# [TP303060]). The protein was produced from HEK293T cells transfected with BPIFA1 cDNA clone (Cat# RC203060) using MegaTran 2.0 (Cat# [TT210002]).