

Product datasheet for **RC228629**

PROB1 (NM_001161546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PROB1 (NM_001161546) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PROB1
Synonyms:	C5orf65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228629 representing NM_001161546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGACCGCGCTCGCCCCGCCAGCCCTGCCTGGGATCCCGAGGCAGCTGCCACGGCCCCGCGCGGC
GCCAGGACTCTCCGGTTCGTACGGCTCCTACTACACGGCTCCAGGTTCTCCGAGCCCCCGACGTTGG
GCCGGACGCGAAAGGCCAGCGAATTGGCCCTGGGTGGCTCCTGGGCGGGGGCGGGCGCGCAGCCTCGC
CTGTCCGTACGCGCCAGAATAGCCGCCAGCGGCACGGGCCCGGCTCGGGTTTCCCGCAGGCCCCAGGTT
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CGGACCCCTGTTCCGCTGCTCCGGCGCAGACGATCGCGAGGCGCAACAACAGTTACGGAGCCGGCCTTC
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GAGCCACGTAGCAGCCCGTCCCCGCCGGCCTTCTCCCGTGGGAGGCTCCAGATCGTCCTATTGGAAGCT
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 CCACCCAGCCCGCAAGGTTTATTGTTCCCGTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228629 representing NM_001161546
 Red=Cloning site Green=Tags(s)

MLTALAPPALPGIPQLPTAPARRQDSSGSSSYTAPGSPEPPDVGPDAKGPANWPWVAPGRGAGAQP
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 ISPLPPGPASPAVPRQSQVPDGGSRWATYLELRPRGPSAAPAQFECVEVALEEGAAPARPRTPVKRQI
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 QEARKTRFPREAPDRTVQRARSPPFECRIPSEVPSRAVRPRSPSPRQTPNGAVRGPRCPSPQNLSPWDR
 TTRRVSSPLFPEASSEWENQNPAVEETVSRSPSPPILSQWNQCVAGERSPSLEAPSLWEIPHSVADAV
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 ALAGRTAPAPRAASAPPTDRSPQSPSGARRQPGAAPLGKVLDPESGRYFVEAPRQPRRLVLFDPES
 GQYVEVLLPPSSPGPPHRVYTPLALGLGLYPAYGPIPSLSLPPSPGPQALGSPQLPWVSEAGPLDGTYY
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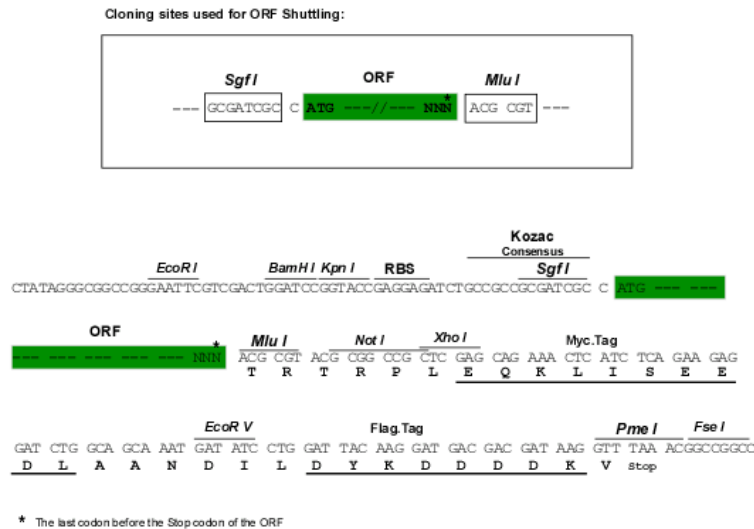
Chromatograms:

https://cdn.origene.com/chromatograms/mk8035_h06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001161546

ORF Size: 3045 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.

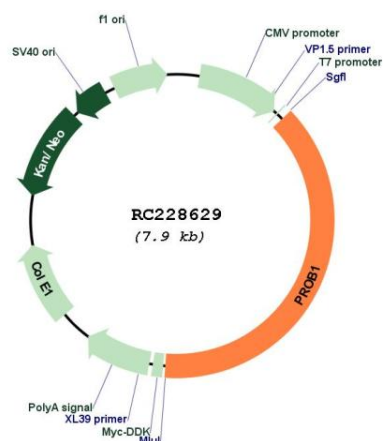
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001161546.2](#)

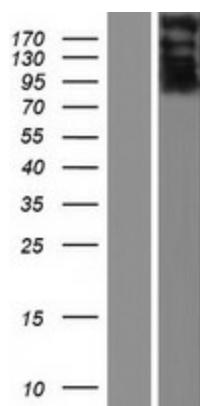
RefSeq ORF: 3048 bp

Locus ID: 389333
 UniProt ID: [E7EW31](#)
 Cytogenetics: 5q31.2
 MW: 106.7 kDa

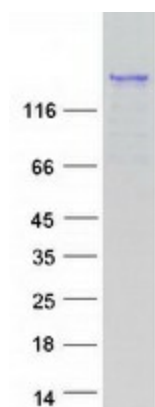
Product images:



Circular map for RC228629



Western blot validation of overexpression lysate (Cat# [LY431657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228629 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PROB1 protein (Cat# [TP328629]). The protein was produced from HEK293T cells transfected with PROB1 cDNA clone (Cat# RC228629) using MegaTran 2.0 (Cat# [TT210002]).