

## Product datasheet for **RR216694**

### **Becn1 (NM\_001034117) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Becn1 (NM_001034117) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Becn1
Synonyms:	Beclin1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR216694 representing NM\_001034117  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGGGTCTAAGGCGTCCAGCAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGTAGCCAGCCTC  
 TGAAACTGGACACGAGCTTCAAGATCCTGGACCGAGTGACCATTAGGAACTCACAGCTCCATTACTTAC  
 CACAGCCCAGGCGAAACCAGGAGAGAGCCAGGAGGAAGAGGCTAACTCAGGAGAGAGCCATTTATTGAA  
 ACTCGCCAGGATGGTGTCTCTCGAAGATTCATCCCCCAGCCAGGATGATGTCTACAGAAAAGTGCTAATA  
 GCTTCACTCTGATCGGGGAGGCATCTGATGGTGGCACCATGGAGAACCTCAGCCGGAGACTCAAGGTCAC  
 TGGAGACCTTTTTGACATCATGTCTGGCCAGACAGATGTGGATCACCCACTGTGTGAGGAATGCACAGAT  
 ACTCTTTTAGACCAGCTGGACACTCAGCTCAATGTTACTGAAAACGAGTGTGAGAACTACAAACGCTGTT  
 TGGAGATGTTGGAGCAAATGAATGAGGGCGACAGTGAACAGCTACAGAGGGAGCTGAAGGAGTTGGCCTT  
 GGAGGAGGAGAGGCTGATCCAGGAGCTGGAAGATGTGGAACCAACGAAAGGTGGTGGCAGAAAACCTG  
 GAGAAGGTCCAGGCTGAGGCGGAGAGACTGGACCAGGAGGAAGCTCAGTACCAGCGAGAATATAGTGAAT  
 TTTAAAAGGCAGCAGCTGGAGCTGGATGATGAGCTCAAGAGTGTAGAGAACCAGATGCGCTATGCCAGAT  
 GCAGCTGGACAAGCTCAAGAAAACCAATGTCTTCAATGCGACCTTCCATATCTGGCACAGCGGACAATTT  
 GGCACGATCAATAATTTAGACTGGGTCGCTTGGCCAGTCTCCTGTGGAATGGAATGAAATCAATGCTG  
 CCTGGGGCCAGACAGTGTGTTGCTCCATGCTTTGGCCAATAAGATGGGTCTGAAATTTAGAGGTACCG  
 ACTTGTCCCTATGGAATCACTCGTATCTGGAGTCCCTGACAGACAAATCTAAGGAGTTGCCGTTGTAC  
 TGTTCTGGGGTTTGCGTTTTTCTGGGACAACAAGTTGACCATGCAATGGTAGCTTTTCTGGACTGTG  
 TGCAGCAGTTCAAAGAAGAGGTGGAAGGAGAGACTCGATTTTGTCTCCGTACAGGATGGACGTGGA  
 GAAAGGCAAGATTGAAGACACTGGAGCAGTGGCGGCTCCTATTCCATCAAAACCCAGTTTAACTCTGAG  
 GAGCAGTGGACAAAGGCGCTCAAGTTCATGCTGACGAATCTCAAGTGGGGTCTTGGTGTCTCTCAC  
 AGTTCTATAACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216694 representing NM\_001034117  
 Red=Cloning site Green=Tags(s)

MEGSKASSSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGESQEEEEANSGEFPFIE  
 TRQDGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLDFDMSGQTDVDHPLCEECD  
 TLLDQLDQLNVTENECQNYKRCLMELQMEGDSEQLQRELKELALEEERLIQELEDVEKNRKYVAENL  
 EKVQAEERLDQEEAQYQREYSEFKRQLELDDELKSVENQMRYAQMQLDKLKKTNVFNATFHIWHSQF  
 GTINNFRLLGRLPSAPVEWNEINAAWGQTVLLLHALANKMGLKFQRYRVPYGNHSYLESLTDKSKELPLY  
 CSGGLRFFWDNKFDHAMVAFLDCVQQFKEEVEKGETRFCLPYRMDVEKGIEDTGGSGGSYSIKTQFNSE  
 EQWTKALKFMLTNLKWGLAWVSSQFYNK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

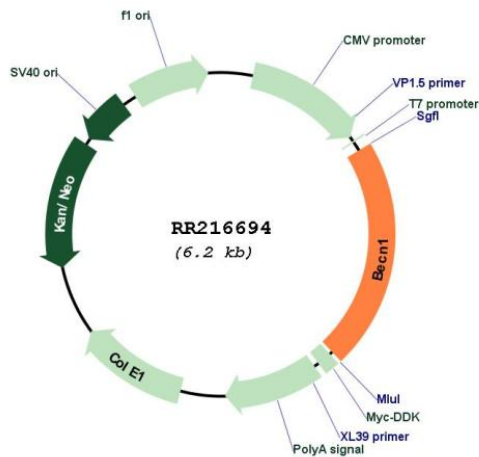
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001034117

**ORF Size:** 1344 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\\_001034117.1](#), [NP\\_001029289.1](#)

**RefSeq Size:** 2118 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 114558

**UniProt ID:** [Q91XJ1](#)

**Cytogenetics:** 10q31

**MW:** 51.6 kDa

**Gene Summary:** mouse homolog is a haploinsufficient tumor suppressor gene; plays a role in early embryonic development [RGD, Feb 2006]