

Product datasheet for **MC200283**

Becn1 (NM_019584) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Becn1 (NM_019584) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Becn1
Synonyms:	4921513J16Rik; 5430417M23Rik; Atg6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005770 sequence for NM_019584
 GGG AAGTAGCTGAAGACCGGGCGATGGAACTCTGGAGGTCTCGCTCCGGGGCGGACCCGAGGCCACCGT
 GCGCCCGCGGTAGAACGAGCCTGGGTGGCGGGCTCCGGGCTCCTGAGGCATGGAGGGTCTAAGCGTCC
 AGCAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGTAGCCAGCCTCTGAACTGGACACGAGCTTCA
 AGATCCTGGACCGGGTACCATCCAGGAACCTCACAGCTCCATTACTTACCACAGCCCAGGCGAAACCAGG
 AGAGACCCAGGAGGAAGAGGCTAACTCAGGAGAGGAGCCATTTATTGAACTCGCCAGGATGGTGTCTCT
 CGAAGATTCATCCCCCAGCCAGGATGATGTCTACAGAAAAGTCTAATAGCTTCACTCTGATCGGGGAGG
 CATCTGATGGTGGCACCATGGAGAACCTCAGCCGGAGACTCAAGGTCACCTGGAGACCTGTTTGACATCAT
 GTCGGGCCAGACCGATGTGGATCACCCGCTGTGTGAGGAATGCACAGACTCTTTTAGACCAGCTGGAC
 ACTCAGCTCAATGTCACCTGAGAATGAATGTCAGAACTACAAAACGCTGTTTGGAGATCCTAGAGCAGATGA
 ATGAGGATGACAGTGAGCAGCTGCAGAGGGAGCTGAAGGAGCTGGCCTTGGAGGAGGAGGCTGATCCA
 GGAGCTGGAAGATGTGAAAAGAACCAGGAGGTTGGCAGAGAACCTGGAGAAGTCCAGGCTGAGGCG
 GAGAGATTGGACCAGGAGGAAGCTCAGTACCAGCGGGAGTATAGTGAATTTAAAAGGCAGCAGCTGGAGT
 TGGATGACGAACTCAAGAGTGTGGAGAACCAGGTGCGCTACGCCAGATCCAGCTGGACAAGCTCAAGAA
 AACCAATGTCTTCAATGCCACCTTCCACATCTGGCACAGCGGACAGTTTGGACAATCAATAATTTTCAAG
 CTGGGTCGCTTGGCCAGTTCCTGTGGAGTGGAAATGAAATCAATGCTGCCTGGGCCAGACAGTGTCTGC
 TGCTCCATGCTTTGGCCAATAAGATGGGTCTGAAGTTTACAGAGTACCGACTTGTTCCTATGGAATCA
 TTCTATCTGGAGTCTCTGACAGACAAATCTAAGGAGTTGCCGTTATACTGTTCTGGGGTGTTCGGGTTT
 TTCTGGGACAACAAGTTTGACCATGCAATGGTAGCTTTTCTGGACTGTGTGCAGCAGTTCAAAGAAGAGG
 TGGAAAAGGAGAGACTCGATTTTGTCTTCCGTACAGGATGGACGTGGAGAAAGGCAAGATTGAAGACAC
 TGGAGGCAGTGGCGGCTCCTATCCATCAAACCCAGTTTAACTCGGAGGAGCAGTGGACAAAAGCGCTC
 AAGTTCATGCTGACCAATCTCAAGTGGGTCTTGCCTGGGTGTCTCACAGTTCTATAACAAGTGACTTG
 CTCCTTAGGGGATGTTTGCCTTTAAGTTTTATACTTTTGTGGTTTGGAAAGATGCTTTAAATTAATT
 TGGGTAATATTAACCACATGTTTACAATACAAAATCCACAAAAGCTACTTTATTTTCAAATATGACAG
 ATAGTTTCCAGAGTACGCCATGTATAGCAAAGAACCCTGCCATAGTTTGTACTCAGCCCCATGCATCCTT
 TCCCTCTTCTGAAAACAATAATTTAAATTTGCTTTGTTTTCTTTTTAAGTTGAATTGACGTTAATG
 TGTTTTCACTGGATTTTATCTCTCTCAACTTCTGCACCTAAAATTTGAAACAGCAAAGTTTGGAGATGA
 GATGCTTGTGGCACACAGTTGGGTGATGTGGGAAAGGACACCGGGTCAAGGATTGCAAGTTTAACTCCG
 TCCTCACTTGTAGCATTGAATGCCTCCTGTGTCTAGTGGGACTACAGAAATGCTGTTTGATACTGTGT
 GCGACGTGGAGAGATTTAATTATTTGTAATAAAGGATTTGCTATGGTCTATTAAAAAAAAAAAAAAAAAAAAAA AAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019584

Insert Size: 1347 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:**
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: [BC005770](#), [AAH05770](#)

RefSeq Size: 2034 bp

RefSeq ORF: 1347 bp

Locus ID: 56208

UniProt ID: [O88597](#)

Cytogenetics: 11 D

Gene Summary: Plays a central role in autophagy (PubMed:10604474, PubMed:12372286, PubMed:19270693, PubMed:28445460). Acts as core subunit of different PI3K complex forms that mediate formation of phosphatidylinositol 3-phosphate and are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis (PubMed:19270693, PubMed:25275521). Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (By similarity). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms (PubMed:25275521). Involved in endocytosis including endosome formation in neuronal cells (PubMed:25275521). May play a role in antiviral host defense (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1).