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Product datasheet for RC238188

BECN2 (NM_001290693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BECN2 (NM_001290693) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BECN2
Synonyms:	BECN1L1; BECN1P1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC238188 representing NM_001290693
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTCCATCCGCTTCCTGTGCCAGCGCTGCCACCAGGCCCTGAAGCTGAGCGGCTCCTCGGAGTCTA
GGAGCCTCCCTGCAGCCCCGGCGCCCACCTCTGGGCAGGCTGAGCCCGGAGACACCCGGGAGCCCGGCGT
CACCACCAGGGAGGTGACAGACGCTGAGGAGCAACAGGACGGTGCCTCTAGCAGATCCCCTCCAGGCGAT
GGCAGTGTGTCCAAGGGCCATGCCAACATCTTCACCCTGCTGGGGGAGCTTGGCGCCATGCACATGCTCA
GTAGCATCCAGAAGGCAGCTGGTGACATTTTTGACATAGTCTCTGGCCAAGCAGTTGTGGACCATCCCCT
GTGTGAAGAATGCACCGACAGTCTTTTAGAGCAGCTGGACATCCAGCTCGCTCTCACAGAAGCTGACAGT
CAGAACTACCAACGCTGCCTGGAGACCGGGGAGCTGGCGACCAGCGAGGACGAGGCGGCGGCGCTGCGGG
CGGAGCTGCGGGACCTGGAGCTGGAGGAGGCCAGGCTGGTGCAGGAGCTGGAGGATGTGGACAGGAACAA
TGCAAGAGCAGCGGCGGATCTCCAGGCAGCCCAGGCAGAGGCTGCGGAGCTGGACCAGCAGGAGAGGCAG
CACTACAGGGACTACAGTGCCTTGAAGCGGCAGCAGCTGGAACTGCTTGATCAGCTGGGGAACGTGGAGA
ACCAGCTGCAGTATGCCAGGGTCCAGAGGGACCGGCTGAAGGAAATCAACTGTTTCACCGCCACGTTTGA
GATCTGGGTGGAGGGCCCCTTGGGCGTCATCAATAACTTCAGGTTGGGCCGCCTCCCCACTGTCCGTGTG
GGCTGGAATGAGATTAACACTGCCTGGGGACAGGCGGCCTTGCTGCTCCTTACCCTGGCCAATACAATTG
GACTGCAGTTTCAGAGGTATCGACTCATCCCCTGCGGAAACCATTCGTATCTGAAGTCTTTAACAGATGA
CCGCACTGAGCTGCCGTTGTTCTGTTATGGGGGGCAGGATGTTTTCCTCAATAACAAGTATGACCGCGCG
ATGGTGGCCTTCCTGGACTGCATGCAGCAGTTCAAGGAAGAGGCTGAGAAGGGTGAGCTGGGCCTCTCTC
TGCCCTACGGGATCCAGGTGGAGACAGGCCTGATGGAGGACGTTGGCGGCCGAGGGGAATGCTATTCCAT
CAGAACCCATCTGAACACGCAGGAGCTGTGGACAAAGGCACTCAAGTTCATGCTTATAAATTTCAAGTGG
AGTCTCATCTGGGTTGCCTCAAGGTATCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

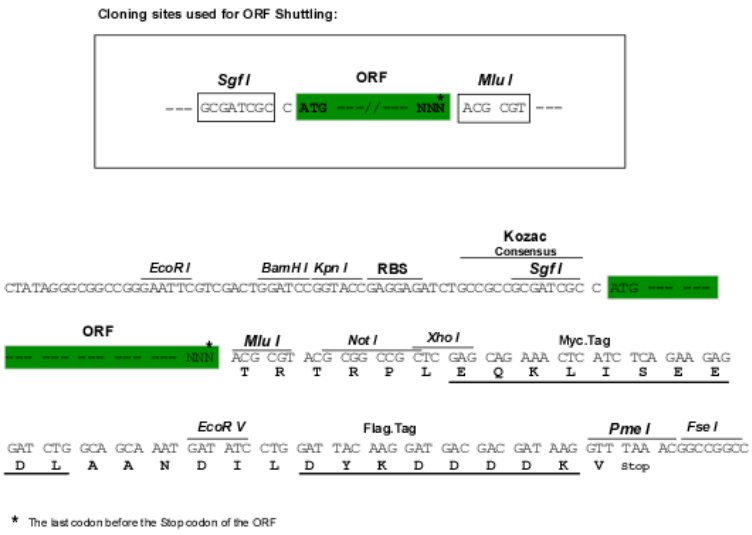
>RC238188 representing NM_001290693
Red=Cloning site Green=Tags(s)

MSSIRFLCQRCHQALKLSGSSESRSLPAAPAPTSGQAEPGDTREPGVTTREVTDAEEQQDGASSRSPPGD
GSVSKGHANIFTLLGELGAMHMLSSIQKAAGDIFDIVSGQAVVDHPLCEECTDSLLEQLDIQLALTEADS
QNYQRCLETGELATSEDEAAALRAELRDLELEEARLVQELEDVDRNNARAAADLQAAQAEAAELDQQERQ
HYRDYSALKRQQLELLDQLGNVENQLQYARVQRDRLKEINCFTATFEIWVEGPLGVINNFRLGRLPTVRV
GWNEINTAWGQAALLLLTLANTIGLQFQRYRLIPCGNHSYLKSLTDDRTELPLFCYGGQDVFLNNKYDRA
MVAFLDCMQQFKEEAEKGELGLSLPYGIQVETGLMEDVGGRGECYSIRTHLNTQELWTKALKFMLINFKW
SLIWVASRYQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290693

ORF Size: 1293 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_001290693.1, NP_001277622.1

RefSeq Size: 1296 bp

RefSeq ORF: 1296 bp

Locus ID: 441925

UniProt ID: A8MW95

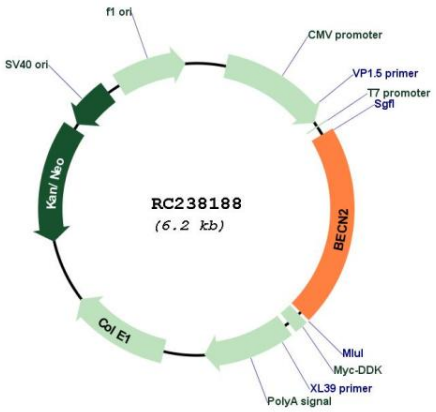
Cytogenetics: 1q43

Protein Pathways: Regulation of autophagy

MW: 48.2 kDa

Gene Summary: Involved in 2 distinct lysosomal degradation pathways: acts as a regulator of autophagy and as a regulator of G-protein coupled receptors turnover. Regulates degradation in lysosomes of a variety of G-protein coupled receptors via its interaction with GPRASP1/GASP1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238188