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Product datasheet for MC207240

Bnip3l (NM_009761) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bnip3l (NM_009761) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bnip3l
Synonyms:	C86132; D14Ertd719e; Nip3L; Nix
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207240 representing NM_009761 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTCACTTAGTCGAGCCGCCGCCGCCCTTGCACAACAACAACAACAACTGCGAGGAAGGGGAGCAGC CCCTGCCGCCGCCCGCTGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA GAATGGAAATGGGAAGAATGGGGGGCTGGAGCACGTTCCTTCCTCGTCTTCCATCCACAATGGAGACATG GAGAAGATCCTCCTGGATGCACAGCATGAGTCGGGACAGAGCAGCTCAAGAGGCAGTTCGCACTGTGACA GCCCTTCACCACAAGAAGATGGGCAGATCATGTTTGATGTTGAGATGCATACCAGCAGGGACCACAGCTC TCAGTCAGAAGAAGAAGTTGTAGAAGGAGAAAAGGAAGTTGAGGCTTTGAAGAAAAGTGCAGACTGGGTA TCAGACTGGTCCAGTAGACCCGAAAACATCCCACCCAAAGAGTTCCATTTCAGACACCCTAAACGTGCTG CGTCTCTAAGCATGAGGAAGAGTGGAGCCATGAAGAAAGGGGGCATTTTCTCTGCAGAGTTCCTAAAAGT TTTCATCCCATCTCTCTTCCTTTCTCATGTGCTGGCCTTGGGGCTCGGCATCTATATTGGAAAACGACTG AGCACACCTTCTGCCAGCACCTACTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_009761
Insert Size:	657 bp

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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: NM_009761.3, NP_033891.1

RefSeq Size: 3237 bp

RefSeq ORF: 657 bp

Locus ID: 12177

UniProt ID: Q9Z2F7

Cytogenetics: 14 34.6 cM

Gene Summary: Induces apoptosis. Interacts with viral and cellular anti-apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. Inhibits apoptosis induced by BNIP3. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates in mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix (By similarity). May function as a tumor suppressor (By similarity).[UniProtKB/Swiss-Prot Function]