

Product datasheet for **RC239063**

BRRN1 (NCAPH) (NM_001281712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRRN1 (NCAPH) (NM_001281712) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BRRN1
Synonyms:	BRRN1; CAP-H; CAPH; MCPH23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239063 representing NM_001281712
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTCAGAGATTCTTAACAGAAAGACACCGAACCAACCACTTTAAAGTGGCTGCGGGTACTCTGGATG
 CCAGCACCAAGATCTATGCTGTGCGCGTGGATGCCGTCCATGCCGATGTATACAGAGTCCTTGGGGGGCT
 GGGCAAAGATGCACCGTCTTTGGAAGAAGTAGAAGGCCATGTTGCTGATGGAAGTCTACTGAAATGGGA
 ACAACCAAAAAGGCTGTAAAGCCAAAGAAGCACTTACACAGAACTATTGAGCAGAACATAAACAAACC
 TCAATGTCTCCGAAGCAGATCGGAAGTGTGAGATTGATCCCATGTTTCAGAAGACAGCAGCCTCATTTGA
 TGAGTGCAGCACAGCAGGGGTGTTTCTGTCCACTCTCCACTGCCAGGACTACAGAAGTGAAGTCTGTTT
 CCCTCTGATGTCCAGACTCTCTCCACGGGAGAACCTCTCGAGTTGCCAGAGTTAGGTTGTGTAGAAATGA
 CAGATTTAAAAGCGCCCTTGACGAGTGTGCAGAAGATCGCCAGATCTGCCCTTCCCTGGCCGGGTCCA
 GTTTACACAGTGGGACAGTGAACACATAATGAGTCTGTGTCGGCCCTGGTAGACAAGTTTAAAGAAGAT
 GACCAGGTATTTGACATCAATGCTGAAGTTGACGAGAGTGAAGTGTGGAGACTTCCCGATGGGTCCCTGG
 GGGATGACTTTGATGCCAACGATGAACCTGACCACACCGCAGTTGGGGATCATGAAGAGTTCAGGAGCTG
 GAAGGAGCCCTGCCAGGTTGAGAGCTGCCAGGAAGAAATGATTTCCCTTGGGGATGGAGACATCAGGACC
 ATGTGCCCCCTTCTGTCTATGAAACCTGGAGAATATTCTTATTTAGTCTCGGACCATGTCGATGTGGG
 CTGGCCCGGATCACTGGCGCTTTAGGCCCTGACGCAAAACAAGATGCTCCTTCCCAATCAGAAAACAAAA
 GAAGAGTACAAAAAAGATTTTGAATTGACTTTGAAGATGATATTGACTTTGATGTATATTTTAGAAAA
 ACAAAGGCTGCTACTATTCTGACCAAGTCCACTTTGGAGAACCAGAATTGGAGAGCTACCACCCTTCCTA
 CAGATTTCAACTACAATGTTGACACTCTGGTCCAGCTTCACTCAAACCAGGCACAGGTTACTTAAGAT
 GGCCAGGGCCATAGGGTAGAGACTGAGCATTATGAAGAAATTGAAGACTATGATTACAACAACCCTAAC
 GACACCTCCAACCTTTGCCCTGGATTACAGGCTGCTGACAGTGTGATGAAGATTGGATGACTTATTTG
 TGGGACCTGTTGGGAACCTGACCTCTCACCTTATCCTTGCCATCCACCTAAGACAGCACAAACAGAATGG
 TGACACTCCAGAAGCCCAAGGATTAGACATCACACATATGGGGAGTCAAACCTGGTAGCTGAGCCTCAG
 AAGGTAATAAAAATTGAAATTCATATGCCAAGACTGCCAAAAGATGGACATGAAGAACTGAAGCAGA
 GCATGTGGAGTCTGCTGACAGCGCTCTCCGAAAGGAGGCAGATGCAGAGGCAAACACAGGGAAGCTGG
 AAAAGAAGCGGCCCTGGCAGAAGTGGCTGACGAGAAGATGCTTAGCGGGCTCACGAAGGACCTGCAGAGG
 AGCCTGCCCCCTGTCATGGCTCAGAACCTCTCCATACCTCTGGCTTTTGCCTGTCTCTACATTTAGCCA
 ATGAAAAGAATCTAAACTGGAAGGAACAGAGGACCTCTCTGATGTTCTGTGAGGCAAGGAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239063 representing NM_001281712
 Red=Cloning site Green=Tags(s)

MSEILKQKDEPTNFKVAAGTLDASTKIYAVRVDVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMG
 TTKKAVKPKKKHLHRTIEQNINNLNVSEADRKCEIDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLF
 PSDVQTLSTGEPLLELPELGCVEMTDLKAPLQQAEDRQICPSLAGFQFTQWDETHNESVSALVDKFKKN
 DQVFDINAEVDESDCGDFPDGSLGDDFDANDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRT
 MCPLL SMKPGEYSYFSPRTMSMWAGPDHWRFRPRRKQDAPSQSENKKKSTKKDFEIDFEDDIDFDVYFRK
 TKAATILTKSTLENQNRATTLPTDFNYNVDTLVQLHLKPGTRLLKMAQGHVTEHYEEIEDYDYNPN
 DTSNFCPLGLQAADSDDEDLDLDFVGPVGNLDLSPYPCHPKTAQQNGDTPAQGLDITTYGESNLVAEPQ
 KVNKIEIHYAKTAKKMDMKLKQSMWSLLTALSGKEADAEANHREAGKEAALAEVADEKMLSGLTKDLQR
 SLPPVMAQNL SIPLAFACLLHLANEKNLKEGTEDLSDVLVRQGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001281712

ORF Size: 1815 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_001281712.2](#)

RefSeq Size: 5806 bp

RefSeq ORF: 1818 bp

Locus ID: 23397

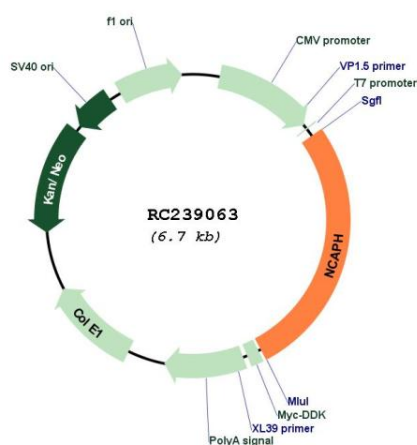
UniProt ID: [Q15003](#)

Cytogenetics: 2q11.2

MW: 67.9 kDa

Gene Summary: This gene encodes a member of the barr gene family and a regulatory subunit of the condensin complex. This complex is required for the conversion of interphase chromatin into condensed chromosomes. The protein encoded by this gene is associated with mitotic chromosomes, except during the early phase of chromosome condensation. During interphase, the protein has a distinct punctate nucleolar localization. Alternatively spliced transcript variants encoding different proteins have been described. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC239063