

Product datasheet for RC216284

BRN3A (POU4F1) (NM_006237) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BRN3A (POU4F1) (NM_006237) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BRN3A
Synonyms: ATITHS; brn-3A; BRN3A; Oct-T1; RDC-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC216284 representing NM_006237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTCCATGAACAGCAAGCAGCCTCACTTTGCCATGCATCCCACCCTCCCTGAGCACAAAGTACCCGT
 CGCTGCACTCCAGCTCCGAGGCCATCCGGCGGGCTGCCTGCCACGCCCGCGCTGCAGAGCAACCTCTT
 CGCCAGCTGGACGAGACGCTGTGGCGGGGCCGAGGCGCTGGCGGCCGTGGACATCGCCGTGTCCCAG
 GGCAAGAGCCATCTTTCAAGCCGGACGCCACGTACCACAGATGAACAGCGTCCCGTGCACGTCCACTT
 CCACGGTGCCTCTGGCGACCACCACCACCACCACCACCAGGCGCTCGAACCCGGCGATCTGCT
 GGACCACATCTCTCGCGTCTGCTCGCGCTCATGGCCGGCGGGCGGCGGCGGGCGGGCGGGCGGGC
 GCGGGCGCCACGACGGCCCGGGGGCGGTGGCGGCCGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGC
 GGGGAGCGGGCGGTGGCGGCCGGGGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGG
 GCACCCTACCCGCATATGCACAGCCTGGGCCACCTGTGCGACCCCGGGCGGGCGGGCGGCATGAACATG
 CCGTCCGGGTGCCGACCCCGGGTGGTGGCGGGCGGGCGCACACGGCGGGCAGGGCAGCGGGCGG
 CGGCGGGCGGGCAGGTGGCAGCGGCATCGGCGGGCGGGCGGCGGTGGTGGGCGCAGCGGGCCTGGCGT
 CATCTGCGACTCGACACGGACCCGCGGAGCTCGAGGCGTTCGCGGAGCGCTTCAAGCAGCGGGCGCAT
 AAGCTGGGCGTGACGAGCGGACGTGGGCTCGGCGCTGGCCAACTCAAGATCCCGGGCGTGGGCTCAC
 TCAGCCAGACACCATCTGCAGGTTTCAGTTCGCTCACGCTCTCGCACAACAACATGATCGCGCTCAAGCC
 CATCTGCAGGCGTGGCTCGAGGAGGCCAGGGCGCCAGCGCGAGAAAATGAACAAGCCTGAGCTCTTC
 AACGGCGGCGAGAAGAAGCGCAAGCGGACTTCCATCGCCGCGCCGAGAAGCGCTCCCTCGAGGCTACT
 TCGCCGTGCAGCCCGGCCCTCGTCCGAGAAGATCGCCGCCATCGCCGAGAACTGGACCTCAAAAAGAA
 CGTGGTGGGTTGGTTTTGCAACCAGAGACAGAAGCAGAAGCGGATGAAATCTCTGCCACTTAC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216284 representing NM_006237
Red=Cloning site Green=Tags(s)

MMSMNSKQPHFAMHPTLPEHKYPSLHSSSEAIRACLPTPPLQSNLFASLDETLARAEALAAVDIAVSQ
 GKSHPFKPDATYHTMNSVPCTSTSTVPLAHHHHHHHHQALEPGDLLDHISPSLALMAGAGGAGAAAGG
 GGAHDGPGGGGGPGGGGGPGGGGGGGGGGGGGGGGGGGGGGLGSSAHPHPMHSLGHL SHPAAAAAMNM
 PSGLPHPLGVA AAAAHGAAAAAAAAAAGQVAAAASAAAAVVGAAGLASICDSDDTPRELEAF AERFKQRRRI
 KLGVTQADVGSALANLKIPGVGSLSQSTICRFESLTL SHNMIALKPILQAWLEEAE GAQREKMNKPELF
 NGGEKKRRTSIAAPEKRSLEAYFAVQPRPSSEKIAAIAEKLDLKKNVVRVWFCNQRQKQKRMKFSATY

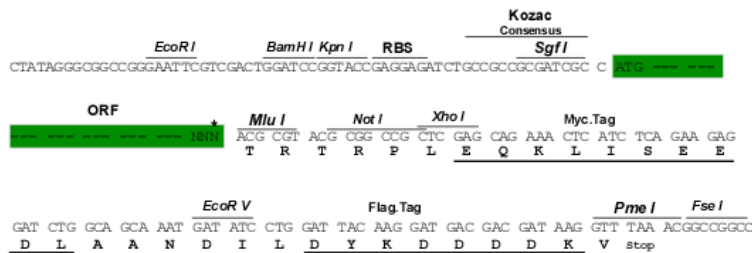
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006237

ORF Size: 1257 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_006237.4](#)

RefSeq Size: 3824 bp

RefSeq ORF: 1260 bp

Locus ID: 5457

UniProt ID: [Q01851](#)

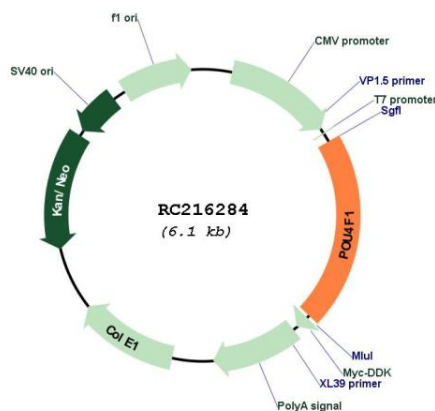
Cytogenetics: 13q31.1

Protein Families: Transcription Factors

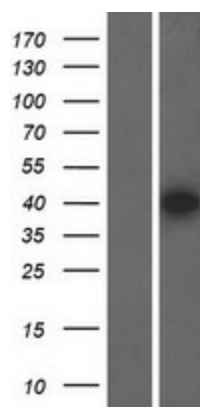
MW: 42.5 kDa

Gene Summary: This gene encodes a member of the POU-IV class of neural transcription factors. This protein is expressed in a subset of retinal ganglion cells and may be involved in the developing sensory nervous system. This protein may also promote the growth of cervical tumors. A translocation of this gene is associated with some adult acute myeloid leukemias. [provided by RefSeq, Mar 2012]

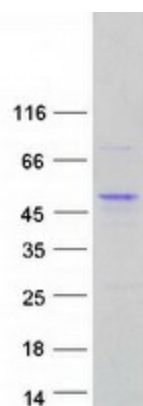
Product images:



Circular map for RC216284



Western blot validation of overexpression lysate (Cat# [LY416781]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216284 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POU4F1 protein (Cat# [TP316284]). The protein was produced from HEK293T cells transfected with POU4F1 cDNA clone (Cat# RC216284) using MegaTran 2.0 (Cat# [TT210002]).