

Product datasheet for **RG234493**

BRF1 (NM_001242786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRF1 (NM_001242786) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRF1
Synonyms:	BRF; BRF-1; CFDS; GTF3B; hBRF; HEL-S-76p; TAF3B2; TAF3C; TAFIII90; TF3B90; TFIIIB90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234493 representing NM_001242786
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGAGCAGGCACCTGACCCGCGCCGGAAGATGGCCACGTGATTGCTGCCTGCCTCTACCTGG
 TCTGCCGTACGGAGGGCACGCCGCATGCTCCTGGACCTCAGCGACCTGCTCCAGTGAATGTGTACGT
 GCTTGAAAGACGTTTCTTCTCTTGCAAGAGAGCTCTGCATCAATGCGCCGGCCATAGACCCGTGCCTG
 TATATCCACGCTTTGCGCACCTGCTGGAATTCGGGGAGAAGAACCACGAGGTGCCATGACTGCCTGA
 GGCTCCTACAGAGGATGAAGCGGGACTGGATGCACACAGGCCGGCGCCCTCGGGCTCTCGGGAGCAGC
 GCTCCTGGTTGCAGCCAGAATGCATGACTTCAGGAGGACTGTGAAGGAGGTATCAGTGTGGTCAAAGTG
 TGTGAGTCCACGCTGCGGAAGAGGCTCACGGAATTTGAAGACACCCACCAGTCAAGTGGATTGATG
 AGTTCATGAAGATCGACCTGGAGGAGGAGTGCACCCCTCGTACACAGCTGGCAGAGGAAGCTGCG
 GATGAAGCAGCTTGAACAAGTCTGTCAAAAACTGGAGGAGGTTGAAGGTGAAATATCCAGTTACCAG
 GATGCAATTGAGATTGAACTAGAAAACAGCCGGCCAAAGGCCAAGGGGGCTGGCCAGCCTGGCAAAG
 ATGGCTCCACCGAGGACACCGCTCCAGCTTGTGTGGCGAGGAGGACACAGAGGACGAGGAGCTGGAAAG
 CGCGGCCAGCCACCTGAACAAAGACTTATACCGGAGCTCCTTGGTGGTCCCCCGGAGCTCGGAAGCA
 GCAGGAAGCCCGAGTGGGGCGGAGACCTCCGGCCCTGGGGTCCCTGCTGGACCCCTCCCCACTGCAG
 CCAGCTGGGCATCTCAGACTCCATCCGCAATGCATCTCCTCTCAGAGCAGCGACCCAAAGATGCTTC
 AGGAGACGGTGAAGTGGACCTCAGTGGCATTGATGACCTGGAGATTGACAGGCGGACCTTAGCATGCC
 CGGTGTGCGAAGGCTAAAAGCCAGCCCCACTTCCCTGTGCTCGCCAGTACATCTGAATGAGTCGGAAG
 CCGCGTGAAGGCGAGCTGTGGATGAGGGAGAACGCGGAGTACCTGCGGGAACAGAGGGAAAAAGAAC
 AAGAATAGCGAAAAGAGAAGGAGCTCGGCATCTACAAGGAACACAAGCCCAAGAAGTCTTGCAAGCGACGG
 GAGCCAATTCAGGCCAGTACCGCCAGGAGGCCATCGAGAAGATGCTGGAGCAGAAGAAGATCTCCAGCA
 AGATCAATTATAGCGTGTCCGGGGCTCAGCAGCGCGGGGGCAGTCCGCACAGGAGGATGCACA
 GCCCGAGCATAGCGCCAGTGCCAGGAAGCTGTCACGAAGGAGGACCGCGCCAGCAGAAGTGGGGCTGAC
 CCTGTGACCAGTGTGGGAAAAGGTTGAGGCTCTGGTGTCTACGCAGCCAGCAAAGAAGTGGCCACGG
 GAGAGGCTTTGCTCCCAAGCTCTCCACCCTCGGAGCTGAGCCTGCCAGGCCAGGCGGTGCTGGTGA
 GAGCGGGCCGTGTCATACCACGCCGACGAGGAGGCTGACGAGGAGGAGCCTGACGAGGAGGACGGGGAG
 CCCTGCGTCAGTCCCTGCAGATGATGGCAGCAACGACTATGGTGTGATGGCGATGAGGACGACGGCT
 AC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234493 representing NM_001242786
 Red=Cloning site Green=Tags(s)

MAVSRHLTRGRKMAHVIAACLVLVCRTEGTPHMLLDLSDLLQVNVYVLGKTFLLLARELCINAPAI DPCL
 YIPRFAHLLLEFGEKNHEVSMTALRLLQRMKRDWMHTGRRPSGLCGAALLVAARMHDFRRTVKEVISVVKV
 CESTLRKRLTEFEDTPSQLTIDEFMKIDLEECPPSYTAGQRKLRMKQLEQVLSKKLEEEVEGEISSYQ
 DAIEIELENSRPKAKGLASLAKDGSTEDTASSLCGEEDTEDEELEAAASHLNKDLRELLGGAPGSSEA
 AGSPEWGGRRPALGSLDPLPTAASLGISDSIRECISSQSSDPKDasGDGELDL SGIDDLIDRRDLSMP
 RCAKAKSQPHFPVLAQYILNESEARVKAELWMRENAEYLREQREKEARIAKEKELGIYKEHKPKKCKRR
 EPIQASTAREAIEKMLEQKKISSKINYSVLRGLSSAGGGSPHREDAQPEHSASARKLSRRRTPASRSGAD
 PVT SVGKRLRPLVSTQPAKKVATGEALLPSSPTLGAEPARPQAVLVESGPVSYHADEEAEDEEPEDEEDGE
 PCVSALQMMGSNDYGCDGEDDGY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001242786

ORF Size: 1752 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_001242786.1](#), [NP_001229715.1](#)

RefSeq Size: 3452 bp

RefSeq ORF: 1755 bp

Locus ID: 2972

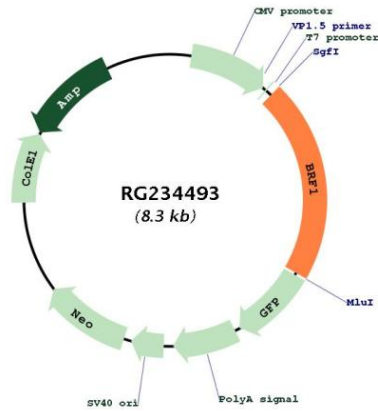
UniProt ID: [Q92994](#)

Cytogenetics: 14q32.33

Protein Families: Transcription Factors

Gene Summary: This gene encodes one of the three subunits of the RNA polymerase III transcription factor complex. This complex plays a central role in transcription initiation by RNA polymerase III on genes encoding tRNA, 5S rRNA, and other small structural RNAs. The gene product belongs to the TF2B family. Several alternatively spliced variants encoding different isoforms, that function at different promoters transcribed by RNA polymerase III, have been identified. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RG234493