

Product datasheet for **RG213148**

BRF1 (NM_001519) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRF1 (NM_001519) 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:

>RG213148 representing NM_001519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGGCCCGTGTGCCCGGTTGCGCGGCACGGACATCGAGCTGGACGCGCGCGCGGGACGCGG
 TGTGCACCGCCTGCGGCTCAGTGTGGAGGACAACATCATCGTGTCCGAGGTGCAGTTCTGTGGAGAGCAG
 CGGCGCGGCTCCTCGGCGTGGCCAGTTCTGTGCCCTGGACGGTGTGGCAAAACCCGACTCTGGGT
 GGCGGCTTCCACGTGAATCTGGGAAGGAGTCGAGAGCGCAGACCCTGCAGAATGGGAGGCGCCACATCC
 ACCACCTGGGGAACCAGCTGCAGCTGAACCAGCACTGCCTGGACACCGCCTTCAACTTCTCAAGATGGC
 CGTGAGCAGGCACCTGACCCGCGGCCGGAAGATGGCCACGTGATTGCTGCCTCTACCTGGTCTGC
 CGTACGGAGGGCAGCCGCACATGCTCCTGGACCTCAGCGACCTGCTCCAGGTGAATGTGTACGTGCTT
 GAAAGACGTTTCTTCTTGGCAAGAGAGCTCTGCATCAATGCGCCGGCCATAGACCCGTGCCTGTATAT
 TCCACGCTTTCGCGACCTGCTGGAATTCGGGGAGAAGAACCACGAGGTGCCATGACTGCCCTGAGGCTC
 CTACAGAGGATGAAGCGGACTGGATGCACACAGGCCGCGCCCTCGGGCCTCTGCGGAGCAGCGCTCC
 TGGTTGCAGCCAGAATGCATGACTTCAGGAGGACTGTGAAGGAGGTATCAGTGTGGTCAAAGTGTGTGA
 GTCCACGCTGCGGAAGAGGCTCACGGAATTTGAAGACACCCACCAGTCAGTTGACCATTGATGAGTTC
 ATGAAGATCGACCTGGAGGAGGAGTGGACCCCCCTCGTACACAGCTGGGCAGAGGAAGCTGCGGATGA
 AGCAGCTTGAACAAGTCTGTCAAAAAACTGGAGGAGTTGAAGGTGAAATATCCAGTTACCAGGATGC
 AATTGAGATTGAAGTGAACAGCCGCGCAAGGCCAAGGGGGCTGGCCAGCCTGGCAAAAGATGGC
 TCCACCGAGGACACCGCTCCAGCTTGTGTGGCGAGGAGGACACAGAGGACGAGGAGCTGGAAGCCGCGG
 CCAGCCACCTGAACAAAGACTTATACCGGGAGCTCCTTGGTGGTGCCTCCGCGCAGCTCGGAAGCAGCAGG
 AAGCCCCGAGTGGGGCGGCAGACCTCCGGCCCTGGGGTCCCTGCTGGACCCCTCCCACTGCAGCCAGC
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 ACGGTGAGCTGGACCTCAGTGGCATTGATGACCTGGAGATTGACAGGTACATCCTGAATGAGTCGGAAGC
 CCGCGTGAAGGCCGAGCTGTGGATGAGGGAGAACGCCGAGTACCTGCGGGAACAGAGGAAAAAGAGCA
 AGAATAGCGAAAGAGAAGGAGCTCGGCATCTACAAGGAACACAAGCCCAAGAGTCTTGCAAGCGACGGG
 AGCCAATTCAGGCCAGTACCGCCAGGGAGGCCATCGAGAAGATGCTGGAGCAGAAGAAGATCTCCAGCAA
 GATCAATTATAGCGTGTCCGGGCTCAGCAGCGCCGGCGGGGAGTCCGCACAGGGAGGATGCACAG
 CCCGAGCATAGCGCCAGTCCAGGAAGTGTACGAAGGAGGACCGCGCCAGCAGAAGTGGGGCTGACC
 CTGTGACCAGTGTGGGAAAAGTGTGAGCCTCTGGTGTCTACGAGCCAGCAAAGAAGTGGCCACGGG
 AGAGGCTTTGCTCCCAAGCTCTCCACCCTCGGAGCTGAGCCTGCCAGGCCCCAGGCGGTGCTGGTGGAG
 AGCGGGCCCGTGTATACCACGCCGACGAGGAGGCTGACGAGGAGGAGCCTGACGAGGAGGACGGGGAGC
 CCTGCGTCAGTGCCCTGCAGATGATGGGCAGCAACGACTATGGCTGTGATGGCGATGAGGACGACGGCTA
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213148 representing NM_001519
 Red=Cloning site Green=Tags(s)

MTGRVCRGCGGTDIELDAARGDAVCTACGSVLEDNIIVSEVQFVESSGGGSSAVGQFVSLDGAGKTPTLG
 GGFHVNLGKESRAQTLQNGRRRIHHLGNQLQLNQHCLDTAFNFKMAVSRHLTRGRKMAHVIAACLYLVC
 RTEGTPHMLLDLSDLLQVNVYVLGKTFLLLALELCINAPADPCLYIPRFAHLLFGEKNHEVSMTALRL
 LQRMKRDWMHTGRRPSGLCGAALLVAARMHDFRRTVKEVISVVKVCESTLRKRLTEFEDTPTSQLTIDF
 MKIDLEEECDPPSYTAGQRKLRMKQLEQVLSKKLEEVEGEISSYQDAIEIELENSRPKAKGGLASLAKDG
 STEDTASSLCGEEDTEDEELEAAASHLNKDLYRELLGGAPGSSEAAAGSPEWGRPPALGSLLDPLTAAS
 LGISDSIRECISSQSSDPKASGDGELDLSGIDDLEIDRYILNESEARVKAELWMRENAEYLREQREKEA
 RIAKEKELGIYKEHKPKKSKRREPIQASTAREAIEKMLEQKKISSKINYSVLRGLSSAGGGSPHREDAQ
 PEHSASARKLSRRRTPASRSGADPVTSGKRLRPLVSTQPAKKVATGEALLPSSPTLGAEPARPQAVLVE
 SGPVSYHADEEADEEEDGEDGEPVSALQMMGSNDYGCDGEDDGY

TRTRPLE - GFP Tag - V

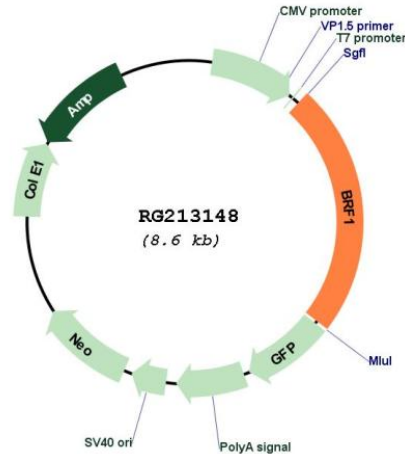
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001519

ORF Size: 2031 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_001519.4](#)

RefSeq Size: 3660 bp

RefSeq ORF: 2034 bp

Locus ID: 2972

UniProt ID: [Q92994](#)

Cytogenetics: 14q32.33

Domains: transcript_fac2, CYCLIN

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]