

Product datasheet for **RG212147**

FBF 1 (FBF1) (NM_001080542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FBF 1
Synonyms:	Alb; FBF-1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212147 representing NM_001080542
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCAAAACCAAGAAAGGATGTAAAGTGACACTACCTGAGAAGCCTGTTAACTAGCTTCACATA
CCAGAGACACCACAGGTGTATCTCAGATGTTCCCTTCTCAAAGGCGAGAACAAAGTCCCTCCTGGGTGA
TGATGTCTTCAGCACCATGGCAGGCCTGGAAGAAGCTGATGCTGAGGTTTCAGGTATCTCAGAGGCAGAC
CCACAGGCTCTGCTCCAGGCCATGAAGGACCTGGACGGCATGGATGCTGATATCTTAGGTCTGAAGAAAT
CTAATTACAGCCCTAGCAAAAAGCTGCAAAAGGACCTGGGAAAGGAGAGCTGCCCAACCAACCCCAAGCC
TGCAGGGGGTGCCATTCCACCAAGAAGTCACTTCCGTCTCCAGCAGCTCTGGGCATCAGAACAGGAGG
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TATTCCTCTAACTCCTGGGGACACCCCATCCGAAAAAAGAAGATTGTTGTTTGTATGATGGGGATGAC
ATCATGGCCACCTTGGGGTTTGGAGACAGCCCCAAAGCAGAGAAGAGGCAGATAGGAGACCAGGAAGGGC
CTCGCCCTGCTCGCTCCACGCTGGATGAGCTGCTGGGTCGAGGCATGGCCACCAAACTCCTGGCCGCC
GGGCACCGGGGAGCACAGGGAGTTCAAGCTAGACAAGAAGTACCAGAGGCCACAGGACAGTGAAGATATG
TGGGGTGACGAGGACTTCACTTTGGAGCCTATCAGCCCACTGTGGTCTCCTCTGAGGGCCGGCAGTCCC
GCCGGCAGTCTGTCAAGTTCTTCGACAGACAGTGGCGCAGACCCCAAGGGAGAACCAGGCTCCAAACAGAG
CCCTCAATGGCTTCCAGCCCCATCCAGCCAGGAAGGGAGGAGCTGACTGGTTGGGCCTCAAGGACGAG
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CAGTGCTCCTCCTGCGAGCCAGCACTCCACGCCAGCTGGGCTGCCCCCTCCAGGGCAAAGCCACCAAC
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AGGGCTTGACACGCAGCTGCTGGAGGGAGTTCTGGAACAAGTGCACGAGAAAGACCGTGTGTCAAGGCT
GGTGTCTCGGGGTCCCCTGTGACTCAGAACCATGCCGCCTCAGCACTCCCTACAGGTTCCCAAGAGGG



GAACAGCCCTGGAGACCTCTCAGCCACTGAGCCTGCCACGTGTTTCCCGAGCACCCAGAAACCCACAGA
GCCTTCCTGCCCCGTCCAGCCCTGCTCCAGAGTCCCTGGCCCGAGCCTGCTGCCGAGCACAATAC
CAGAAGCAGCTCCTGGCAGCACAGGTGCACTTCAGTGCAGCCCGCTGAGTCCAGGCCGAGCTGCTGC
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CGCATCAAGGTGCTAGAAACATCGTACCAGCAACGGGAGGAGCGGCTCCGGAGAGAGAACGAAGAGCTGT
CAGCTCGGTATCTGTCGAGTCCAGGAGGCCGAACAGGCCGTGCTGAGCTTACGGCCAGCACCAGCG
GCGCTTGGCGGCCATAGCGCAGGAGAAGGACCAGGAAATGGAGCGGCTCCGGGAGCTGCAGCGGGCTCC
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GACACCCAGCGGGAGGCCACCTCATCAGCTGGCCAGGAGCAGGCTGAGCTGAAGATCAGGGCCAGCG
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AGCAGCAGGCCCGTTGCAGGCGGTGCAGCAACAGCAGGAGCGGCTGCGGAAGCAGGAGCAGCATGCA
CCAGGAGCATCTGAGTCTGGCCAGCAGGCTGCACTGGACCGCGCAGCAGGACCTGCCCTCTAGC
CTCGTGGGTCTGTTCCCGAGGCCAGGGCCCTGCAGCCTCCAGCCAGAGTGCCTCATGCCTCCTGCTC
CCACACCCGTTGGTGCAGCCAGCCGCAACTGGCCTGGACCCAGCCCTTGACCTCCATGCCAGGCT
GGCACTGCTGAGGCACATGGCAGAGCAGGACCGTACTTCTGGAGAATGAACAGTTCTTCTGGAGACC
CTGAAGAAAGGTCCTACAATTTGACATCTCATTACGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212147 representing NM_001080542

Red=Cloning site Green=Tags(s)

MAPKTKKGCKVTLPEKPVKLASHTRDTTGVSQMFSSKARTKSLLGDDVFSTMAGLEEADAEVSGISEAD
PQALLQAMKDLDMADILGLKKSNSAPSKKAADPGKGELPNHPKPAGGAIPTKKSLPSPSSSGHQNRR
FSEDLPLRLGLSYDEGGITKQPPVTQSKTASDKSPSTVRDQGPSIPLTPGDTPIRKKEELLFDDGDD
IMATLFGDSPKAEKRQIGDQEGPRPARSTLDELLGRGMATKLLARPPTGEHREFKLDKKYQRPQDSEDM
WGDEDFTFGAYQPTVVSSEGRQSRQSVRFFADSGADPKGEPGSKQSPPMASPIQPRKGGADWLGLKDE
DLDFPASPTREAHRESSVPVTPSVPPASQHSTPAGLPSPRAKPPTGAGSPAKASQASKLRASKEEKE
DWLSHALSRKKSQGLAREQHAGTSEGLHLAGTAGHPPSGSQPLTSTQGLEHAAAGGSSGTTARERPCVRP
GVSGSPVTQNHAAALPTGSPKRGTA PGDLSATEPATCFPSTQKPTSPVPVQPLLPESLARSLPSTEY
QKQLLAAQVQLQCSPAELQAELLHSQARLAELEAQVRKLELERAQHELLLSLQQQHQADELIESAHS
RIKVLETSYQQREERLRRENEELSARYLSQCQEAQARAELTAQHQRRLAAIAQEKDQEMERLRELQAS
ILDMRRDHEEQRLKLLKDREVDAAATSATSHTRSLNSIIHQMEKFSSSLHELSSRVEASHLTTQSEREL
GIRQRDEQLRALQERLGGQQRDMEEERSRQVEVIGKMEARLNEQSRLLEQERWRVTAEQSKAESMQRALE
EQRKVTAAQMAMERAELEAKSALLEEQSVMLKCGEERRRLAAEWAESAQQKLSKERAEREALQV
DTQREGTLISLAKEQAEKIRASELRAEEKQLAERAALAEQERQELRLEKERINATALRVKLRAEEVESM
SKVASEKYEEGERALREAAQVQAEQARLQAVQQQERLRKQEQHMHQEHLSLAQRLQLDRARQDLPSS
LVGLFPRAQGAASSQSALMPAPTTRWCSQPPTGLDPSPLHLHARLALLRHMAEQDRDFLENEQFFLET
LKKGSYNLTSLSA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001080542

ORF Size: 3399 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).

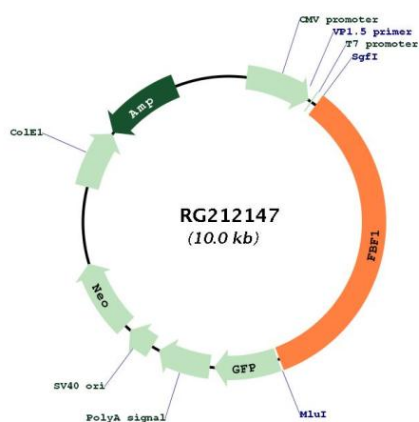
Reconstitution Method:

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_001080542.1, NP_001074011.1
RefSeq Size:	3862 bp
RefSeq ORF:	3402 bp
Locus ID:	85302
Cytogenetics:	17q25.1
Gene Summary:	Keratin-binding protein required for epithelial cell polarization. Involved in apical junction complex (AJC) assembly via its interaction with PARD3. Required for ciliogenesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG212147