

## Product datasheet for **SC105977**

### **BPTF (AL833375) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BPTF (AL833375) Human Untagged Clone
Tag:	Tag Free
Symbol:	BPTF
Synonyms:	FAC1; FALZ; NURF301
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL833375, the custom clone sequence may differ by one or more nucleotides

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CCCACGGTCCGGACTGTACTCCCAGGCCAGGCCAGCAGCTAATGCAAGCTGCAATGCCAAATGGTACT
GTTTCAGCGATTCTCTTTACCCATTGGCAACAACAGCCACCACAGCCAGCACCACCACCAGCTGTTT
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CAAAACCTGCCACCAGCTCAGTCATCAAGTGTGGGTCCAGCAGAAGCCAGCCACAGACTGCTCAGCCT
TCAGCTCAGCCCCAGCCCCAACCCAGCCCCAGTCCCCAGCTCAGCCTGAAGTTCAGACTCAGCCTGAAG
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GCCCAAGTTGCAGCACAGTCTCAGCCTCAAAGTAATGTCCAAGGACAGTCTCCTGTTTCGTGTCAAAGT
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AGAAGGATTATGAGGGGTGAAGAGGGTCTCCGTTCTTACAGGCCATAAGATGGCCTGGCCTTCTCT  
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AATAAATGGAGATAATTTTTCTCCACAGACAGAGGTGTCTTTGAATGTGCGCTAATGATTATCTGTAAG  
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GCTAATCCTGTTGCATCAGTTGATCATACTAACGAGAACGGTAATGCGACAAGATACACATTGCCTTCAT  
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CAAGAATTTCTACCTGTAGGCAATAGATTGCTATGTTTTTAACAAATTTGGGCAATTTAAACAGCA  
ATCTTTTGTACGTAATAGGACATTTTCATCCTAGAAAAATAAAGTAATGTTTTTGTACATTGCAAAAGAAA  
AAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AL833375 unedited  
 NGGGGTGGTTCAGAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGG  
 AAAGGCAATTATTCGAACACCTGTGATGGTACAGCCAGGTGCTCCTCAGCAAGTGATGAC  
 TCAAAATCATCAGGGGGCAGCCTGTCTCCACTGCAGTCTCCGCCCTAACACGGTTTCTCT  
 AACACCTGGGCAGAAAAGCTTAACTTCAGCAACGTCCACTTCAAATATACAGTCTTCAGC  
 CTCACAACCCCTCGCCCTCAACAAGGACAAGTGAAGCTCACCATGGCTCAACTTACTCA  
 GTTAACACAGGGCCACGGTGGCAATCAAGTTTGACAGTAGTAATCAAGGACAAGGTCA  
 AACTACTGGACAGTTGCAAGTTGATACCTCAAGGGTGACTGTACTCCAGGCCCAGGCCA  
 GCAGCTAATGCAAGCTGCAATGCCAAATGGTACTGTTTCAGCGATTCTCTTTACCCATT  
 GGCAACAACAGCCACCACAGCCAGCACCACCACCACCCTGTTTCCACGACAGCAGCAGG  
 TACAGGTGAACAAAGGCAGAGTAACTGTCAACCCAGATGCAGGTACATCAAGACAAAAC  
 CCTGCCACCAGCTCAGTCATCAAGTGTGGGTCCAGCAGAAGCCACAGCCACAGACTGCTCA  
 GCCTTCAAGCTCAGCCCCAGCCCCAACCCAGCCCCAGTCCCAGCTCAGCCTGAAGTTC  
 AGACTCAGCCTGAAGTTCAGACCCAAACAAGTGTTCATCCCATGTCCTTCTGAAGCAC  
 AACCCACCACGCACAGTCATCAAAGCCCAAGTTGCAGCACAGTCTCAGCCTCAAAGTA  
 ATGTCCAAGGACAGNTCTCTGTTGTCGTCCTCAAGTCCATCACAGACTCGAATACGTCAT  
 CAACTNCTN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AL833375 unedited  
 GTACAGCTATGNACCGCGGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTAATA  
 AACAAAGTTTTCTCGCTTCTGCCAATAGTAAAACCATCTGATCTTGACAAGATAATGG  
 TGTGTTGACTTTGCTTTTTTCTGTCCGTTGGACAAAATTGGCCAAGAAATAAATTGGA  
 CTGTTATGACCAATAAAAACGAAGTTTAGGTCAAGTCTTGTGAGGATAGCCTGACTAAAA  
 ACATCTGGCTCCTTAATTTAAAATAGTTTACAGACAACCAGATTCTTGTGTGTTTTATGTT  
 AGGTTAACACGCTGAACTTAAGAAGCTGTAGACTGCAGTTTGTGTTATGAGACCTGCT  
 AGCTTTGAAGCCTTTCAATTTCTGTACAAAGAATGATTCGAGAATTCTGCACACTGGTA  
 AAATGGGAGTCACTTGGATTGTAGTAAAGCAGTTATCAAATAATTTGGTCATATCTGC  
 CACAAATTCGTCAGTTTTTATAAATATCGTCTTTGTACTCTTTCTCCATGGTGGCAAG  
 GTCATAGGTTCTTAATAACACCATAAATCTGGTGCATCATTAGGGTCTACTGGTTC  
 AAGGAAAGGCCAGGCCATCTTATGGGCTGTAAGGAACGGAGCACCTCTTCAACCCCTC  
 ATAATCCTTCTGTTAGTGGCGTGAGCACTGTGATGGCATCCTCTGTTGACTGGCACTG  
 TGGACAGACATACTCATCAATGAGCTCTGCCTCACTTTGCAAGATGCCAACGCAGCGCC  
 ATGGTACCAATTCTGACACCGATCACAGCCAATAAAAATGTGACTCATCATAAGGGTG  
 TTCTGCAGATACAGTACAATTCCTCACTGCTGCCCTCTTGTGCCGTTTACATCATAAG  
 ATGTACACATCCATTTTCTTAGCTNCTTTTCTGTGATGCCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

AL833375

**Insert Size:**

2850 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [AL833375.1](#)

**RefSeq Size:** 4074 bp

**RefSeq ORF:** 4074 bp

**Locus ID:** 2186

**Cytogenetics:** 17q24.2

**Domains:** BROMO, PHD

**Protein Families:** Druggable Genome

**Gene Summary:** This gene was identified by the reactivity of its encoded protein to a monoclonal antibody prepared against brain homogenates from patients with Alzheimer's disease. Analysis of the original protein (fetal Alz-50 reactive clone 1, or FAC1), identified as an 810 aa protein containing a DNA-binding domain and a zinc finger motif, suggested it might play a role in the regulation of transcription. High levels of FAC1 were detected in fetal brain and in patients with neurodegenerative diseases. The protein encoded by this gene is actually much larger than originally thought, and it also contains a C-terminal bromodomain characteristic of proteins that regulate transcription during proliferation. The encoded protein is highly similar to the largest subunit of the Drosophila NURF (nucleosome remodeling factor) complex. In Drosophila, the NURF complex, which catalyzes nucleosome sliding on DNA and interacts with sequence-specific transcription factors, is necessary for the chromatin remodeling required for transcription. Two alternative transcripts encoding different isoforms have been described completely. [provided by RefSeq, Jul 2008]