

Product datasheet for **SC118304**

SAFB (NM_002967) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAFB (NM_002967) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAFB
Synonyms:	HAP; HET; SAB-B1; SAF-B; SAF-B1; SAFB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002967, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGACTCTGTCAGGCCTAGGTGATTCTGGAGCGCGGGCGGGCGGCTCTGAGCTCCGCTCGT
CAGAGACCGGGACCGCGGCCTCAGCGACCTGCGAGTATCGATCTCGGGCGGAGCTGAGGAAACGGAA
TGTGGACTCGAGCGGCAACAAGAGCGTTTTGTGGAGCGGCTGAAGAAGGCAATTGAAGTGAAGGTGGT
AATCCTGACGAAATTGAAATTACCTCCGAGGAAACAAGAAAACATCAAAGAGGTCTAGCAAAGGGCGCA
AACCAGAAGAAGAGGGTGTGGAAGATAACGGGCTGGAGGAAAACCTCTGGGGATGGACAGGAGGATGTTGA
GACCAGTCTGGAGAACTGCAGGACATCGACATCATGGATATCAGTGTGTTGGATGAAGCAGAAATTGAT
AATGGAAGCGTTGCAGATTGTGTCGAAGACGATGATGCTGATAACCTCCAGGAGTCCCTGTCGGATAGTA
GAGAGCTAGTCGAGGGGAAATGAAAGAGCTTCCGGAGCAGCTTCAGGAACATGCTATAGAGGACAAAGA
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GTTCCGAGCTGGAGCAGCCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGA
AGAGGACCTATTTGACAGCGCCATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACAC
GCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGTGAAGGAGGAGCCCGGGAGCAGCCAGGGGATG
GCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGTTGAGCAGAGTAGTGCGGCTCCGAGCT
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GATTTGAAGAATCTTTTCAGCAAATATGGGAAGTGGTGGCGCCAAGGTTGTGACAAATGCCCGGGTGC
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AGAGGGATGATAAATGTGACAGAAAAGATGATGCTAAGAAGGGTACGACGGAAGTGGAGAAAAGAGTAA
GGACCAAGATGATCAGAAACCTGGCCCTCAGAGCGATCTCGAGCCACAAAGTCAAGGAGTCAAGGGGACC
GAACGGACTGTAGTAATGGATAAATCAAAGGGTGCCTGTGATTAGTGTAAAACGTCCGGTCCAAAG
AGAGAGCTTCCAAAGCCAGGATCGAAATCAGCCAGCAGAGAGAAGCGGTCCGTCGTCTTTGATAA
GGTCAAGGAGCTCGGAAGTCAAGAGACTCAGAGTCCCATAGCAGGGTGCCTGAACGCAGTGAACCGGAA
CAACGCATGCAGGCGCAGTGGGAGCGCAGGAGCGTGAGCGGCTGGAGATTGCCCGAGAGAGGCTGGCCT
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CATCCACACGGTGGCATGCAGGGCGGGTTTTGGAGGCCAGAGCCGGGGGAGCAGGCCAGCGATGCCCGC
TTCCTCGCCGCTACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002967 unedited
 GTGTGCAAATTTATGTATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGGCG
 ACTGGAGCGGTTCCCTCGCAGGCGGGCCATTTTGTGCTAGGAGCCTGATAAACCGGCC
 CGGTTCTGTGAAAGTGGGCGGGGAGCCAGGGTCCCTGGAATGGCGGAGACTCTGTCAG
 GCCTAGGTGATTTCTGGAGCGGGCGGGCGGCTCTGAGCTCCGCTCGTCAGAGACCG
 GGACGCGGCGCTCAGCGACCTGCGAGTGCATCTGCGGGCGGAGCTGAGGAAACGGA
 ATGTGGACTCGAGCGGCAACAAGAGCGTTTTGATGGAGCGGCTGAAGAAGGCAATTGAAG
 ATGAAGGTGGTAATCCTGACGAAATTGAAATTACCTCCGAGGAAACAAGAAAACATCAA
 AGAGGTCTAGCAAAGGGCGCAAACCAGAAGAAGGGTGTGGAAGATAACGGGCTGGAGG
 AAAACTCTGGGATGGACAGGAGGATGTTGAGACCAGTCTGGAGAACTTCAGGACATCG
 ACATCATGGATATCAGTGTGTTGGATGAAGCAGAAATTGATAATGGAAGCGTTGCAGATT
 GTGTGCAAGACGATGATGCTGATAACCTCCAGGAGTCCCTGTCGGATAGTAGAGACTAG
 TCGAGGGGAAATGAAAGAGCTTTCGGAGCAGCTTCAGGAACATGCTATAGAGGACAAAG
 AAATAATTAACAATNTAAATACTTCATCATCTGACTTCACTATATTACAGGAAATTGAAA
 GACCTTCCCTGGAGCCAGTTTCCCCGAGAAGACTTCGGATACAAAAGGCTTTCCAA
 GAGGAAAGGGTTCGACCAAGTTTGGGTAATAATTTCTGGTTAGTGAACCTTTCTTACA
 CCAGAGCTACAGATTTGAAGATACTTTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002967 unedited
 GACCGGGCCCTTCTATATCGAGTTTTTTTTTTTTTTTTTTTATGTGAACGGAACACATT
 TATTACAAAAAACCACAAAACGAAAAACAATTCACATTGTATTGAGCTACAAT
 ATGGCAGCAGATTAATAAATATTTTTACACAGTTTAAGGTAACCTAACAGAACAT
 AGCCTTGTGCCACGAGACAGGACAGGATTCCAAGTACTCAGTAGCGCGAGTGAAGC
 GGGCATCGCTGGGCTGCTCCCCCGGCTCTGGCCTCAAACCCGCTGATGCCACCGT
 GTGGGATGGGGTGGCCCCGGGAGGCCCGCTGGGGCAAAGCTGCCGCGCCTGACATTC
 CTCCTCGTTTCATCATGTGGCCAGGCCGAGTGACCGGACATGCTTCTCTCGCCACCT
 GCCACCTTGTGATCCCTGTCCATCATGCCCCCGTGGCCGTCGCCATGACCGGT
 CATTCTCTTTCGGCCATGGTCCCCCAGTCACGTCTGCCCTGGGGGAGGAGGCAGTC
 CCCGACCTCGCTCATCTCTTGTAGAGCCATAGCCCTCCCATTCATTGTGGGAGATCC
 GGTGCGGTGCTTTGGTTCTCCATGGAGCTTCTGGGTAATGGCTGGACTTCATTGTCTTT
 CATTTTTGCCCCTTGAACCTTCTCTACTGACACCTCGTACTGGCATGGGCACATCGATC
 GACGCTCCTTGGTGTGCTAACATACCGGTATACGGTCTTTGGCCGGTCTTTCGTCTAT
 TTGGACTACTACTTTCTGGCGGTTTCCATCGGTCTCCCGTCTCTTCTGTTTTTTTTTC
 TCTCGTCTTTTTCATCTCGTCTTTTCTCATGTATCCCCATTACCACATTGATCATT
 AATCTCCACTCACCGATTGCTCCTCCCTCACTAAACTTCTCTTTTCAATTAATCTTC
 TCCTGAATCACTCCGTTGTTTCTTTTCTTTTCGTCAATTCCTGCCACGCTCTCTGTC
 TTCTCTCTCCGCTGGTCATATTGCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_002967

Insert Size:

2630 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: [NM_002967.2](#), [NP_002958.2](#)

RefSeq Size: 3115 bp

RefSeq ORF: 2748 bp

Locus ID: 6294

UniProt ID: [Q15424](#)

Cytogenetics: 19p13.3

Domains: RRM, SAP

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a DNA-binding protein which has high specificity for scaffold or matrix attachment region DNA elements (S/MAR DNA). This protein is thought to be involved in attaching the base of chromatin loops to the nuclear matrix but there is conflicting evidence as to whether this protein is a component of chromatin or a nuclear matrix protein. Scaffold attachment factors are a specific subset of nuclear matrix proteins (NMP) that specifically bind to S/MAR. The encoded protein is thought to serve as a molecular base to assemble a 'transcriptosome complex' in the vicinity of actively transcribed genes. It is involved in the regulation of heat shock protein 27 transcription, can act as an estrogen receptor co-repressor and is a candidate for breast tumorigenesis. This gene is arranged head-to-head with a similar gene whose product has the same functions. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2011]
Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 3) is shorter compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.