

## Product datasheet for **RC235032**

### **SAFB (NM\_001201338) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAFB (NM_001201338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAFB
Synonyms:	HAP; HET; SAB-B1; SAF-B; SAF-B1; SAFB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC235032 representing NM\_001201338  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGACTCTGTCAGGCCTAGGTGATTCTGGAGCGGGCGGGCGGCTCTGAGCTCCGCCTCGT  
 CAGAGACCGGGACGCGGCCTCAGCGACTGCGAGTGCATCTGCGGGCGGAGCTGAGGAAACGGAA  
 TGTGGACTCGAGCGCAACAAGAGCGTTTTGATGGAGCGGCTGAAGAAGCAATTGAAGATGAAGTGGT  
 AATCCTGACGAAATTGAAATTACCTCCGAGGAAAACAAGAAAACATCAAAGAGGTCTAGCAAAGGGCGCA  
 AACCAAGAAGAGGGTGTGGAAGATAACGGGCTGGAGGAAAACCTCTGGGGATGGACAGGAGGATGTTGA  
 GACCAGTCTGGAGAACTGCAGGACATCGACATCATGGATATCAGTGTGTTGGATGAAGCAGAAATTGAT  
 AATGGAAGCGTTGCAGATTGTGTCGAAGACGATGATGCTGATAACCTCCAGGAGTCCCTGTCGGATAGTA  
 GAGAGCTAGTCGAGGGGAAATGAAAGAGCTTCCGGAGCAGCTCAGGAACATGCTATAGAGGACAAAGA  
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 GAGCCAGAAAATGAGAAAATACTCGACATTTTGGGGAAAACCTGTAAATCTGAGCCAGTAAAAGAAGAAA  
 GTTCCGAGCTGGAGCAGCCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGA  
 AGAGGACCTATTTGACAGCGCCATCCGGAAGAGGGTGTATTTAGATTTGGCCAGCGAGTCAACAGCACAC  
 GCTCAGTCGAGCAAGGCAGACAGCCTGTAGCGGTAGTAAAAGGGAGCCCGGGAGCAGCCAGGCGATG  
 GCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGTTGAGCAGAGTGTGCGGCTCCGAGCT  
 CGCGGAGGCCCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCAAGCCAGAAGCCAGAGATAGC  
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 CCAGTGAAGGCGCTGATCAGAAAATGAGTTCTCCGAAGATGACTCGGATACAAAAAGCTTTCCAAAGA  
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 ACCTCTGACAAAAGAGACAGTACGCGGAAAAAGGAGAAGTCGAGCAACAGTGACAGATCTACAACTTA  
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 GGACCAAGATGATCAGAAACCTGGCCCTCAGAGCGATCTCGAGCCACAAAGTCAGGAAGTCGAGGGACC  
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 AGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGTCCGTGCTGCTTTGATAA  
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 CAACGCATGCAGGCGCAGTGGGAGCGGAGGAGCGTGAGCGGCTGGAGATTGCCCGAGAGAGGCTGGCCT  
 TCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAACGGCTGGAGCGGAACGCATGCACGTGGA  
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 GGCCGGAAGCCAAGCGGGCCGCCCTGGATGAGCGCTACCATTCTGACTTTAACCGCCAGGACCGCTTCCA  
 CGACTTTGACCACAGGACCGCGGCCGCTACCCCGACCACTCGGTGGACAGGAGAGAAGGTTCAAGGTCA  
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 CAGGGGCAGACGTGACTGGGGGACCATGGCCGAAGAGAGGATGACCGGTGATGGCAGGGCACGGCCGAC  
 GGGGCGATGATGGACAGGGATCACAAGAGGTGGCAAGGTGGCGAGAGAAGCATGTCCGGTCACTCCGGG  
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 CCACCCCATCCCACAGGTGGCATGCAGGGCGGGTTTGGAGGCCAGAGCCGGGGAGCAGGCCAGCGAT  
 GCCCGTCACTCGCCGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Protein Sequence:** >RC235032 representing NM\_001201338  
 Red=Cloning site Green=Tags(s)

MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSGNGKSVLMERLKKAIIEDEGG  
 NPDEIEITSEGNKTKSRSSKGRKPEEEGVEDNGLEENSGDGQEDVETSLENLQDIDIMDISVLDEAIED  
 NGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQEHAIEDKETINNLDTSSSDFTILQEIEEPSL  
 EPENEKILDILGETCKSEPVKEESSELEQPPAQDTSSVGPDRKLAEEEDLFDSAHPEEGDLDLASESTAH  
 AQSSKADSL LAVVKREPAEQPGDERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDS  
 KEDGRKFDFDACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFWSGLSSTTRAT  
 DLK NLF SKYGVV GAKVVTNARSPGARYGVFTMSTAEAEATKCINHLHKTTELHGKMI SVEKAKNEPVGKK  
 TSDKRSDGKKEKSSNSDRSTNLKRDDKCDRDKDAKGGDGSGEKSKDQDDQKPGPSESRATKSGSRGT  
 ERTVVMDSKSGVPVIVSKTSGSKERASKQDRKSASREKRSVVSFDKVKPEPRKSRDSESHSRVRSERE  
 QRMQAQWEREERERLEIARERLAFQRQLERERMERERLERERMHVEHRRERQERIHREERELRRQEL  
 RYEQERRPAVRRPYDLRRDDAYWPEAKRAALDERYHSDFNQDRFHDFDHRDRGRYPDHSVDRREGSRS  
 MMGEREQHYPERHGGPERHGRDSRDGWWGGYGS DKRMSEGRGLPPPPRGRRDWGDHGRREDDRSWQGTAD  
 GMMDRDHKRWQGGERSMSGHSGPGHMMNRGGMSGRGSFAPGGASRGHP IPHGGMQGGFGGQSRGSRPSD  
 ARFTRRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

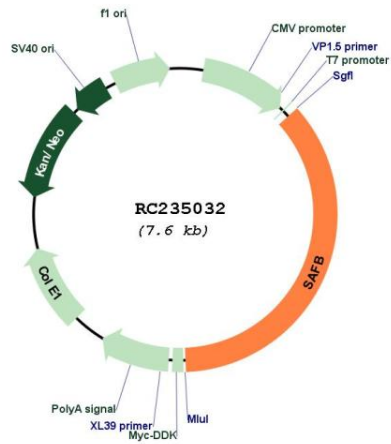


**ACCN:** NM\_001201338

**ORF Size:** 2751 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001201338.2</a>
<b>RefSeq Size:</b>	3121 bp
<b>RefSeq ORF:</b>	2754 bp
<b>Locus ID:</b>	6294
<b>UniProt ID:</b>	<a href="#">Q15424</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	103.3 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC235032