

## Product datasheet for **RG215199**

### SAFB (NM\_002967) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SAFB (NM_002967) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAFB
Synonyms:	HAP; HET; SAB-B1; SAF-B; SAF-B1; SAFB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215199 representing NM\_002967  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGACTCTGTCAGGCCTAGGTGATTCTGGAGCGGGCGGGCGGCTCTGAGCTCCGCCTCGT  
 CAGAGACCGGGACGCGGCCTCAGCGACTGCGAGTGATCGATCTGCGGGCGGAGCTGAGGAAACGGAA  
 TGTGGACTCGAGCGCAACAAGAGCGTTTTGATGGAGCGGCTGAAGAAGCAATTGAAGATGAAGTGGT  
 AATCCTGACGAAATTGAAATTACCTCCGAGGAAACAAGAAAACATCAAAGAGGTCTAGCAAAGGGCGCA  
 AACCAAGAAGAGGGTGTGGAAGATAACGGGCTGGAGGAAAACCTCTGGGGATGGACAGGAGGATGTTGA  
 GACCAGTCTGGAGAACTGCAGGACATCGACATCATGGATATCAGTGTGTTGGATGAAGCAGAAATTGAT  
 AATGGAAGCGTTGCAGATTGTGTCGAAGACGATGATGCTGATAACCTCCAGGAGTCCCTGTCGGATAGTA  
 GAGAGCTAGTCGAGGGGAAATGAAAGAGCTTCCGGAGCAGCTTCAGGAACATGCTATAGAGGACAAAGA  
 AACTATAACAATTTAGATACTTCATCATCTGACTTCACTATATTACAGGAAATTGAAGAGCCATCCCTG  
 GAGCCAGAAAATGAGAAAATACTCGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAAGAAGAAA  
 GTTCCGAGCTGGAGCAGCCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGA  
 AGAGGACCTATTTGACAGCGCCATCCGGAAGAGGGTGTATTTAGATTTGGCCAGCGAGTCAACAGCACAC  
 GCTCAGTCGAGCAAGGCAGACAGCCTGTAGCGGTAGTAAAAGGGAGCCCGGGAGCAGCCAGGCGATG  
 GCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGTTGAGCAGAGTAGTGCAGGCTCCGAGCT  
 CGCGGAGGCCCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCAAGCCAGAAGCCAGAGATAGC  
 AAAGAAGACGGGAGGAAGTTGATTTTGACGCTTGTAAATGAAGTCCCTCCGGCTCCTAAAGAGTCCCTCAA  
 CCAGTGAGGGCGCTGATCAGAAAATGAGTTCTCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGA  
 GGAAAAGGGTCGCAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTTCTACAACAGAGCTACA  
 GATTTGAAGAATCTTTTCAGCAAATATGGGAAGGTGGTGGGCGCAAGGTTGTGACAAATGCCCGGAGTC  
 CTGGAGCTCGCTGTTACGGTTTTGTACAGTGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACT  
 GCACAAGACGGAGCTCCACGAAAGATGATCTCCGTGGAGAAAGCCAAAATGAACCTGTGGAAAGAAA  
 ACCTCTGACAAAAGAGACAGTGACGGGAAAAGGAGAAGTCGAGCAACAGTGACAGATCTACAACTTA  
 AGAGGGATGATAAATGTGACAGAAAAGATGATGCTAAGAAGGGTACGACGGAAGTGAGAAAAGAGTAA  
 GGACCAAGATGATCAGAAACCTGGCCCTCAGAGCGATCTCGAGCCACAAAGTCAGGAAGTCGAGGGACC  
 GAACGGACTGTAGTAATGGATAAATCCAAGGGGTGCCTGTGATTAGTGTAAAAAGTCCGGTCCAAAG  
 AGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTCCGTGCTGCTTTGATAA  
 GGTCAAGGAGCCTCGAAAGTCAAGAGACTCAGAGTCCCATAGCAGGGTGCCTGAACGCAGTGAACCGGAA  
 CAACGCATGCAGGCGCAGTGGGAGCGGAGGAGCGTGAGCGGCTGGAGATTGCCGAGAGAGGCTGGCCT  
 TCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAACGGCTGGAGCGGAACGCATGCACGTGGA  
 GCACGAGCGCAGGCGGAGCAGGAGCGCATCCACCGTGAGCGGAGGAGCTGAGGCGCCAGCAGGAACTG  
 CGCTATGAGCAGGAGCGGCGGCCCGGTGCGGCGGCCCTACGACCTGGACCGCGGAGATGATGCCTATT  
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 CGACTTTGACCACAGGACCGCGGCCGCTACCCCGACCACTCGGTGGACAGGAGAGAAGTTCAAGGTCA  
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 CCCGCGATGGCTGGGGGGCTATGGCTCTGACAAGAGGATGAGCGAGGGCGGGGGCTGCCTCCTCCCC  
 CAGGGGCAGACGTGACTGGGGGACCATGGCCGAAGAGAGGATGACCGGTGATGGCAGGGCACGGCCGAC  
 GGGGCGATGATGGACAGGGATCACAAGAGGTGGCAAGGTGGCGAGAGAAGCATGTCCGGTCACTCCGGG  
 CTGGCCACATGATGAACCGAGGAGGAATGTCAGGGCGCGGAGCTTTGCCCGAGGCGGGGCTCCCGGG  
 CCACCCCATCCCACAGGTGGCATGCAGGGCGGGTTGGAGGCCAGAGCCGGGGAGCAGGCCAGCGAT  
 GCCCGTCACTCGCCGCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215199 representing NM\_002967  
 Red=Cloning site Green=Tags(s)

MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSGNGKSVLMERLKKAIIEDEGG  
 NPDEIEITSEGNKKTSKRSSKGRKPEEEGVEDNGLEENSGDGQEDVETSLENLQDIDIMDISVLDEAIED  
 NGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQEHAIEDKETINLDTSSDFTILQEIEEPSL  
 EPENEKILDILGETCKSEPVKEESSELEQPPAQDTSSVGPDRKLAEEEDLFDSAHPPEEGDLDASESTAH  
 AQSSKADSL LAVVKREPAEQPGDGERTDCEPVGLEPAVEQSSAAEELAEASSEELAEAPTEAPSPEARDS  
 KEDGRKFDACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFWSGLSSTTRAT  
 DLKNLFSKYGKVVGAKVVTNARSPGARYGVFTMSTAEAAATKINHLHKTTELHGKMI SVEKAKNEPVGKK  
 TSDKRDSGKKEKSSNSDRSTNLKRDDKCDRDKDAKGGDDGSGEKSQDQDDQKPGPSESRATKSGSRGT  
 ERTVVMDSKSGVPVIVSKTSGSKERASKSQRKSASREKRSVVSFDKVKEPRKSRDSESHSRVRSERE  
 QRMQAQWEREERERLEIARERLAFQRQLERERMERERLERERMHVEHRRERQERIHREERELRRQEL  
 RYEQERRPAVRRPYDLRRDDAYWPEAKRAALDERYHSDFNQDRFHDFDHRDRGRYPDHSVDRREGSRS  
 MMGEREQHYPERHGGPERHGRDSRDGWWGGYGS DKRMSEGRGLPPPPRGRRDWGDHGRREDRDSWQGTAD  
 GGMMDRDHKRWQGGERSMSGHSGPGHMMNRGGMSGRGSFAPGGASRGHP IPHGGMQGGFGGQSRGSRPSD  
 ARFTRRY

TRTRPLE - GFP Tag - V

Chromatograms: [https://cdn.origene.com/chromatograms/mg4444\\_d10.zip](https://cdn.origene.com/chromatograms/mg4444_d10.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

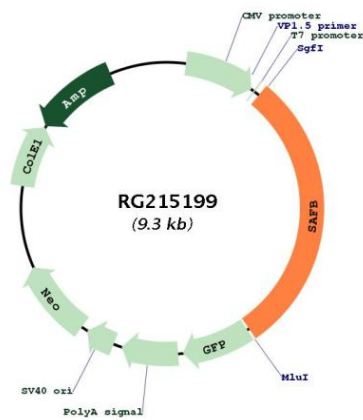


ACCN: NM\_002967

<b>ORF Size:</b>	2751 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_002967.2</a> , <a href="#">NP_002958.2</a>
<b>RefSeq Size:</b>	3018 bp
<b>RefSeq ORF:</b>	2748 bp
<b>Locus ID:</b>	6294
<b>UniProt ID:</b>	<a href="#">Q15424</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	RRM, SAP
<b>Protein Families:</b>	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]

**Product images:**


Circular map for RG215199