

Product datasheet for **RG235029**

SAFB (NM_001201339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAFB (NM_001201339) 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:

>RG235029 representing NM_001201339
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGACTCTGTACGGCTAGGTGATTCTGGAGCGGGCGGGCGGCTCTGAGCTCCGCTCGT
 CAGAGACCGGGACGCGGCCTCAGCGACTGCGAGTGATCGATCTGCGGGCGGAGCTGAGGAAACGGAA
 TGTGGACTCGAGCGCAACAAGAGCGTTTTGATGGAGCGGCTGAAGAAGCAATTGAAGATGAAGGTGGT
 AATCCTGACGAAATTGAAATTACCTCCGAGGAAACAAGAAAACATCAAAGAGGTCTAGCAAAGGGCGCA
 AACCAAGAAGAGGGTGTGGAAGATAACGGGCTGGAGGAAAACCTCTGGGGATGGACAGGAGGATGTTGA
 GACCAGTCTGGAGAACTGCAGGACATCGACATCATGGATATCAGTGTGTTGGATGAAGCAGAAATTGAT
 AATGGAAGCGTTGCAGATTGTGTCGAAGACGATGATGCTGATAACCTCCAGGAGTCCCTGTCGGATAGTA
 GAGAGCTAGTCGAGGGGAAATGAAAGAGCTTCCGGAGCAGCTCAGGAACATGCTATAGAGGACAAAGA
 AACTATAACAATTTAGATACTTCATCATCTGACTTCACTATATTACAGGAAATTGAAGAGCCATCCCTG
 GAGCCAGAAAATGAGAAAATACTCGACATTTTGGGGGAACTTGTAAATCTGAGCCAGTAAAAGAAGAAA
 GTTCCGAGCTGGAGCAGCCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGA
 AGAGGACCTATTTGACAGCGCCATCCGGAAGAGGGTATTAGATTTGGCCAGCGAGTCAACAGCACAC
 GCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGTAAAAGGGAGCCCGGGAGCAGCCAGGCGATG
 GCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGTTGAGCAGAGTAGTGCGGCTCCGAGCT
 CGCGGAGGCCCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCAAGCCAGAAGCCAGAGATAGC
 AAAGAAGACGGGAGGAAGTTGATTTGACGCTTGTAAATGAAGTCCCTCCGGCTCCTAAAGAGTCCCTCAA
 CCAGTGAGGGCGCTGATCAGAAAATGAGTTCTCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGA
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 GATTTGAAGAATCTTTTCAGCAAATATGGGAAGGTGGTGGGCGCAAGGTTGTGACAAATGCCCGGAGTC
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 GCACAAGACGGAGCTCCACGAAAGATGATCTCCGTGGAGAAAGCCAAAATGAACCTGTGGAAAGAAA
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 AGAGGGATGATAAATGTGACAGAAAAGATGATGCTAAGAAGGGTACGACGGAAGTGAGAAAAGAGTAA
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 GAACGGACTGTAGTAATGGATAAATCCAAGGGGTGCCTGTGATTAGTGTAAAAAGTCCGGGTCCAAG
 AGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTCCGTGCTGCTTTGATAA
 GGTCAAGGAGCCTCGAAAGTCAAGAGACTCAGAGTCCCATAGGGTGGGTGAACGCAGTGAACCGGAACA
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 CGAGCGCAGGCGCGAGCAGGAGCGCATCCACCGTGAGCGCGAGGAGCTGAGGCGCCAGCAGGAAGTGC
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 GCGATGGCTGGGGGGCTATGGCTCTGACAAGAGGATGAGCGAGGGCCGGGGGCTGCCTCCTCCCCCAG
 GGGCAGACGTGACTGGGGGACCATGGCCGAAGAGAGGATGACCGGTCATGGCAGGGCACGGCCGACGGG
 GGCATGATGGACAGGATCAACAAGAGGTGGCAAGGTGGCGAGAGAAGCATGTCCGGTCACTCCGGGCTG
 GCCACATGATGAACCGAGGAGGAATGTCAGGGCGCGCAGCTTTGCCACAGGCGGGGCTCCCGGGGCCA
 CCCCATCCACACGGTGGCATGCAGGGCGGTTTGGAGGCCAGAGCCGGGGGAGCAGGCCACGGATGCC
 CGCTTCACTCGCCGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235029 representing NM_001201339
 Red=Cloning site Green=Tags(s)

MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSGNGKSVLMERLKKAIIEDEGG
 NPDEIEITSEGNKTKSRSSKGRKPEEEGVEDNGLEENSGDQEDVETSLENLQDIDIMDISVLDEAEID
 NGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQEHAIEDKETINLDTSSSDFTILQEIEEPSL
 EPENEKILDILGETCKSEPVKEESSELEQPF AQDTSSVGPDRKLAEEEDLFDSAHP EEGDLDA SESTA H
 AQSSKADSL LAVVKREPAEQPGDERTDCEPVGLEPAVEQSSAA SELAEASSEELAEAPTEAP SPEAR DS
 KEDGRKFDFDACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFWSGLSSTTRAT
 DLKNLFSKYGKVVGAKVVTNARSPGARYGVFTMSTAE EATKCINHLHKTELHGKMI SVEKAKNEPVGKK
 TSDKRSDSGKKEKSSNSDRSTNLKRDDKCDRDKDAKGGDGSGEKSKDQDDQKPGPSESRATKSGSRGT
 ERTVVMDSKSGVPVIVSKTSGSKERASKSQRKSASREKRSVVSFDKVKEPRKSRDSESHRVRERSEREQ
 RMQAQWEREERERLEIARERLAFQRQLERERMERERLERERMHVEHERRREQERIHRREREELRQQELR
 YEQERRPAVRRPYDLDRDDAYWPEAKRAALDERYHSDFNRQDRFHDFDHRDRGRYPDHSVDRREGSRSM
 MGEREGQHYP ERHGGPERHGRDSRDGWGGYGS DKRMSEGRGLPPPPRGRRDWGDHGRREDDRSWQGTADG
 GMMDRDHKRWQGGERSMSGHSGPGHMMNRGMSGRGSFAPGGASRGHPIPHGGMQGGFGGQSRGSRPSDA
 RFTRRY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

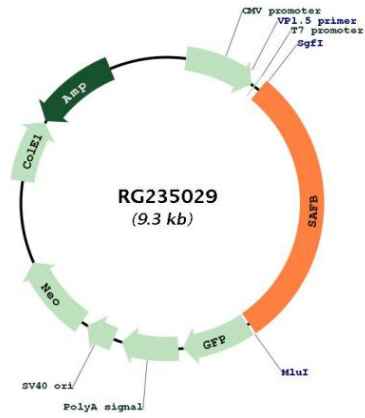
Cloning Scheme:



ACCN: NM_001201339

ORF Size:	2748 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:	<ol style="list-style-type: none">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_001201339.2
RefSeq Size:	3118 bp
RefSeq ORF:	2751 bp
Locus ID:	6294
UniProt ID:	Q15424
Cytogenetics:	19p13.3
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]

Product images:



Circular map for RG235029