Datasheet for ABIN3090008

# BRPF1 Protein (AA 1-1214) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | BRPF1 |
| Protein Characteristics: | AA 1-1214 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This BRPF1 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MGVDFDVKTF CHNLRATKPP YECPVETCRK VYKSYSGIEY HLYHYDHDNP PPPQQTPLRK HKKKGRQSRP ANKQSPSPSE VSQSPGREVM SYAQAQRMVE VDLHGRVHRI SIFDNLDVVS EDEEAPEEAP ENGSNKENTE TPAATPKSGK HKNKEKRKDS NHHHHHNVSA STTPKLPEVV YRELEQDTPD APPRPTSYYR YIEKSAEELD EEVEYDMDEE DYIWLDIMNE RRKTEGVSPI PQEIFEYLMD RLEKESYFES HNKGDPNALV DEDAVCCICN DGECQNSNVI LFCDMCNLAV HQECYGVPYI PEGQWLCRRC LQSPSRAVDC ALCPNKGGAF KQTDDGRWAH VVCALWIPEV CFANTVFLEP IDSIEHIPPA RWKLTCYICK QRGSGACIQC HKANCYTAFH VTCAQQAGLY MKMEPVRETG ANGTSFSVRK TAYCDIHTPP GSARRLPALS HSEGEEDEDE EEDEGKGWSS EKVKKAKAKS RIKMKKARKI LAEKRAAAPV VSVPCIPPHR LSKITNRLTI QRKSQFMQRL HSYWTLKRQS RNGVPLLRRL QTHLQSQRNC DQVGRDSEDK NWALKEQLKS WQRLRHDLER ARLLVELIRK REKLKRETIK VQQIAMEMQL TPFLILLRKT LEQLQEKDTG NIFSEPVPLS |

EVPDYLDHIK KPMDFFTMKQ NLEAYRYLNF DDFEEDFNLI VSNCLKYNAK DTIFYRAAVR LREQGGAVLR QARRQAEKMG IDFETGMHIP HSLAGDEATH HTEDAAEEER LVLLENQKHL PVEEQLKLLL ERLDEVNASK QSVGRSRRAK MIKKEMTALR RKLAHQRETG RDGPERHGPS SRGSLTPHPA ACDKDGQTDS AAEESSSQET SKGLGPNMSS TPAHEVGRRT SVLFSKKNPK TAGPPKRPGR PPKNRESQMT PSHGGSPVGP PQLPIMSSLR QRKRGRSPRP SSSSDSDSDK STEDPPMDLP ANGFSGGNQP VKKSFLVYRN DCSLPRSSSD SESSSSSSSS AASDRTSTTP SKQGRGKPSF SRGTFPEDSS EDTSGTENEA YSVGTGRGVG HSMVRKSLGR GAGWLSEDED SPLDALDLVW AKCRGYPSYP ALIIDPKMPR EGMFHHGVPI PVPPLEVLKL GEQMTQEARE HLYLVLFFDN KRTWQWLPRT KLVPLGVNQD LDKEKMLEGR KSNIRKSVQI AYHRALQHRS KVQGEQSSET SDSD

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

## Product Details

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| | Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein. |
| Purification: | One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). |
| Purity: | > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). |
| Grade: | custom-made |

## Target Details

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| Target: | BRPF1 |
| Alternative Name: | BRPF1 (BRPF1 Products) |
| Background: | Peregrin (Bromodomain and PHD finger-containing protein 1) (Protein Br140),FUNCTION: Scaffold subunit of various histone acetyltransferase (HAT) complexes, such as the MOZ/MORF and HBO1 complexes, which have a histone H3 acetyltransferase activity (PubMed:16387653, PubMed:24065767, PubMed:27939640). Plays a key role in HBO1 complex by directing KAT7/HBO1 specificity towards histone H3 'Lys-14' acetylation (H3K14ac) (PubMed:24065767). Some HAT complexes preferentially mediate histone H3 'Lys-23' (H3K23ac) acetylation (PubMed:27939640). Positively regulates the transcription of RUNX1 and RUNX2 (PubMed:18794358). {ECO:0000269\|PubMed:16387653, ECO:0000269\|PubMed:18794358, ECO:0000269\|PubMed:24065767, ECO:0000269\|PubMed:27939640}. |
| Molecular Weight: | 137.5 kDa |
| UniProt: | P55201 |

## Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Comment: | ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from |

## Application Details

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| | Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.<br>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.** |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |