

# 'Roxygen documentation for file create\_RNAmaps\_for\_all\_PASs.R '

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create\_RNAmaps\_for\_all\_PAS  
*iCLIP RNAmaps for all PAS*

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## Description

Create RNAmaps at sPASs, pPASs and dPASs for two iCLIP libraries.

## Usage

```
create_RNAmaps_for_all_PAS(  
  PASSs.gr,  
  iCLIP1.plus.bw,  
  iCLIP1.minus.bw,  
  iCLIP2.plus.bw,  
  iCLIP2.minus.bw,  
  upstream = 450,  
  downstream = 150  
)
```

## Arguments

`PASSs.gr` A GRanges object containing exact positions of PASs as single nucleotide region. A metadata column called "PAS.type" is required for each region and should be either sPAS, pPAS or dPAS.

`iCLIP1.plus.bw` Path to the BigWig-File of the plus strand for iCLIP library 1.

`iCLIP1.minus.bw` Path to the BigWig-File of the minus strand for iCLIP library 1.

`iCLIP2.plus.bw` Path to the BigWig-File of the plus strand for iCLIP library 2.

iCLIP2.minus.bw      Path to the BigWig-File of the minus strand for iCLIP library 2.  
upstream      Number of upstream nucleotides to include in the RNAmap.  
downstream      Number of downstream nucleotides to include in the RNAmap.

**Details**

For each PAS type (i.e. sPAS, pPAS and dPAS) RNAmaps for two iCLIP libraries are generated in a user-defined window. For comparison of signal differences between the two iCLIP libraries, two proportions Z-tests are performed for each position. Positions with a significant signal difference (adjusted P value  $\leq 0.01$ ) are indicated in black beneath the signals.

**Value**

RNAmap plot

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