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

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### **R** topics documented:

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create_RNAmaps_	for_all_PAS  Create RNAmaps at sPASs, pPASs and dPASs for two iCLL	P libraries.

#### **Description**

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

#### Usage

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

#### **Arguments**

```
PASs.gr A GRanges object containing exact positions of PASs. Metadata columns have to include the type of each PAS (i.e. sPAS, pPAS or dPAS).

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

iCLIP2.plus.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**

BigWig-Files are loaded as Rle, which allows a fast subsetting via the regions in the GRanges object. For the comparison of iCLIP signals of the two libraries a two proportions Z-test is performed. Positions with a significant signal difference (adjusted P value <= 0.01) are indicated in black beneath the signals.

#### Value

RNAmap plot

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