**SUPPLEMENTARY MATERIAL EXPERIMENTAL SERIES 2 (ES2).**

The table lists all bait proteins assigned to the experimental series they have been measured in (ES1, ES2, or both) and the number of the corresponding volcano plot within the Supplementary material 1 and/or 2. The corresponding volcano plots of ES2 are depicted in the following pages. The colorcoding of the outliers refers to the interactor confidence classes A, B and C as in Figure 4C.

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Correlation scores of outliers:

- APC1: 1
- CDC27: 0.74
- DOC1: 0.71
- CDC16: 0.71
- APC4: 0.69
- MND2: 0.64
- CDC26: 0.59
- SWM1: 0.59
- APC2: 0.51
- CDC23: 0.47
- APC5: 0.38
- OMS1: 0.21
- HOF1: 0.18
- EPL1: 0.17
- PRP40: 0
Correlation scores of outliers:

- APC2: 1
- APC1: 0.54
- APC4: 0.53
- DOC1: 0.5
- CDC16: 0.49
- CDC27: 0.45
- CDC26: 0.45
- MND2: 0.42
- SWM1: 0.41
- APC5: 0.41
- CDC23: 0.32
- APC9: 0.29
- DIP5: 0.22
- MCM5: 0.2
Correlation scores of outliers

- POP2: 1
- CAF40: 0.74
- MOT2: 0.68
- CDC39: 0.59
- CAF130: 0.54
- CCR4: 0.54
- P47086: 0.43
- Q04279: 0.41
- UBX4: 0.29
- ABF2: 0.23
- NAM7: 0.21
- GIP4: 0.18
- PDS5: -0.03
Correlation scores of outliers
- CAM1: 1
- EFB1: 0.89
- TFA2: 0.17
Correlation scores of outliers

- CCR4: 1
- CDC39: 0.87
- CAF40: 0.68
- CAF130: 0.55
- POP2: 0.54
- MOT2: 0.46
GAL83

Correlation scores of outliers

GAL83: 1
SNF1: 0.88
SNF4: 0.74
Correlation scores of outliers

- NUP145: 1
- POM34: 0.85
- NUP170: 0.85
- NSP1: 0.84
- NUP120: 0.81
- NUD1: 0.76
- NUP84: 0.76
- NDC1: 0.76
- SEC13: 0.74
- SPC110: 0.74
- HEH2: 0.73
- NUP85: 0.71
- HMG2: 0.68
- SPC42: 0.67
- HMG1: 0.66
- NUP133: 0.65
- CDC31: 0.65
- SPC29: 0.62
- NIC96: 0.59
- NUP53: 0.59
- CNM67: 0.58
- NUP100: 0.58
- NUP116: 0.54
- NBP1: 0.51
- BUB2: 0.47
- BFA1: 0.47
- NUP2: 0.44
- BBP1: 0.42
NUP84

-log10 p-value

-log2(NUP84/background)

Correlation scores of outliers
- NUP84: 1
- NUP120: 0.82
- SEC13: 0.78
- NUP145: 0.77
- NSP1: 0.76
- NUP170: 0.71
- NDC1: 0.7
- NIC96: 0.7
- NUP133: 0.68
- SPC42: 0.67
- NUD1: 0.65
- POM34: 0.64
- CNM67: 0.6
- POM152: 0.6
- SPC29: 0.59
- SPC110: 0.58
- HMG2: 0.58
- CDC31: 0.57
- NUP100: 0.55
- NUP95: 0.54
- HM32: 0.52
- KAR1: 0.49
- HEH2: 0.46
- NUP53: 0.45
- ESC1: 0.44
- BUB2: 0.43
- NUP57: 0.43
- NUP116: 0.38
- LOS1: 0.37
- NBP1: 0.36
- BFA1: 0.36
- ERG24: 0.33
- RIF1: 0.28
- NUP157: 0.27
- NUP159: 0.22
Correlation scores of outliers

PAF1: 1  
CDC73: 0.84  
LEO1: 0.75  
CTR9: 0.69  
RPO21: 0.47  
FUM1: 0.16
Correlation scores of outliers:
- PEP3: 1
- PEP5: 0.7
- VPS41: 0.55
- VAM6: 0.52
- HSP26: 0.21
Correlation scores of outliers

- PEP5: 1
- PEP3: 0.72
- VPS41: 0.7
- VPS33: 0.56
- VPS16: 0.56
- VAM6: 0.46
- VPS8: 0.43
- RPN9: 0.21
Correlation scores of outliers

- RTF1: 1
- CDC73: 0.57
- PAF1: 0.42
- LEO1: 0.37
- CTR9: 0.22
Correlation scores of outliers

- SKI2: 1
- SKI3: 0.79
- SKI8: 0.7
- TFA2: 0.22
SMC1

Correlation scores of outliers
- SMC1: 1
- SMC3: 0.94
- MCD1: 0.61
- IRR1: 0.55
SMC2

Correlation scores of outliers
- SMC2: 1
- SMC4: 0.79
- BRN1: 0.69
- YCG1: 0.37
- FHL1: 0.04
SMC3

Correlation scores of outliers

SMC3: 1
SMC1: 0.94
MCD1: 0.59
IRR1: 0.46
YCG1: 0.23
SMC4

Correlation scores of outliers

- SMC4: 1
- SMC2: 0.79
- BRN1: 0.6
- YCG1: 0.36
- YCS4: 0.14
Correlation scores of outliers

- SNF4: 1
- SNF1: 0.75
- GAL83: 0.72
- SIP2: 0.45
- SIP1: 0.37
- SAK1: 0.31
- IES6: 0.16
SSZ1

Correlation scores of outliers

-10
-5
0
5
10
0
5
10
15
20
25
log2(SSZ1/background)
-log10 p-value

SSZ1: 1
Correlation scores of outliers

- CPA2: 0
- SEC22: 0
- CAM1: 0
- ASF2: 0
- EFB1: 0
- TEF4: 0
- LRO1: 0
- MND2: 0
- KCS1: 0
Correlation scores of outliers

- ZUO1: 1
- SSZ1: 0.59
- PTP2: 0.18
- SWI3: 0.11
- IVY1: 0.1
- KGD2: 0.08
- IML1: 0.05
- PET10: 0.02
- MBA1: 0
- YPD1: −0.07
- COR1: −0.08
- UBC13: −0.1