

Supplementary Table 2 |

Examples of protein interactions that have been visualized using the BiFC assay

Category of proteins	Features*	Protein partners**	Organism	References
Peptides	Designed coiled coil	Anti-parallel NZ – CZ	<i>Escherichia coli</i>	42
	Heat-shock proteins	Hsc70, HSP90 – TPR1, TPR2A, TPR2B	<i>E. coli</i>	36
Nuclear proteins	bZIP domain	Fos – Jun – ATF2; BATF – Jun; Maf – Sox	Mammalian cells	4,9,11
	Rel domain	IκB – p65, p50 – p65	Mammalian cells	4
	bHLHZIP domain	Myc/Max/ Mad family dimers Mist – Mist	Mammalian cells	10,12
	Bromodomain	AcH4 – Brd2; SPA-1, P-TEFb – Brd4	Mammalian cells	13,14,16
	SMAD family	AKT/PKB, SMAD4 – SMAD3	Mammalian cells	22
	Interferon regulatory factor-family	IRF8 – PU.1	Mammalian cells	17
	Winged-helix domain	AcFKH1 – CPCR1	<i>Acremonium chrysogenum</i>	43
Ubiquitin-family proteins	E3 ligase-substrate complexes	Skp2 – Myc	Mammalian cells	18
		Grr1 – Hof1	<i>Saccharomyces cerevisiae</i>	20
		ASK1 – EID1	<i>Sinapsis alba</i> , <i>Petroselinum crispum</i>	23
	Ubiquitin-family peptide conjugates	Jun–Ub, Jun–SUMO1	Mammalian cells	35
Signalling proteins	MAPK network	MEKK3 – IκBα; MEKK2 – IκBβ; ERK1 – p65; ERK2 – p65	Mammalian cells	48
	PKB and PDK kinases	AKT/PKB – hFt1, PDK1 – hFt1	Mammalian cells	33
	Heterotrimeric G proteins	Gβ1 – Gγ7	<i>Dictyostelium discoideum</i> , Mammalian cells	24,28
	Phospholipases	PLCβ2 – PLCδ1	Mammalian cells	25
	Apoptosis regulators	Bif1 – Bax	<i>Aspergillus nidulans</i>	29
	Photosensitivity	FpsA – FpsA		49
Enzyme complexes	ACS	Heteromeric interactions among ACS1, ASC4, ASC6, ACS7 and ACS8	<i>E. coli</i>	50
	Cytochrome P450	P450C2, P450E1 – P450 reductase	Mammalian cells	26
Membrane proteins	Integrin signalling	Integrin αIIbβ3 – Src	Mammalian cells	19
	ARF-family GTPases	Interactions of ARF1, 3, 4, 5 with GBF1	Mammalian cells	21
	Lectins	MCFD2, Cathepsin – ERGIC53	Mammalian cells	30
	Cytokine receptors	gp130 – LIFR	Mammalian cells	27
Nucleic acid-binding proteins	RNA binding	RNA binding by IMP, FMRP, STAU1, IRP1, PTB1; Nef – Nef; NXF1 – Y14	Mammalian cells	31,51,59
	DNA binding	Zif268, PBSII binding to DNA	<i>In vitro</i>	32
Plant proteins	Transcription factors	FIE – MEA; bZIP63 – bZIP63; LSD1 – LSD1; bHLH1 – OFP1; SAD, BPBF – GAMYB; LIP19 – OBF19	<i>Nicotiana benthamiana</i> , <i>N. tabacum</i> <i>Arabidopsis thaliana</i> , <i>Allium sp.</i>	15,52–55
	Post-translational-modification proteins	PFTα–PFTβ; T143c–T143c	<i>N. benthamiana</i> , <i>A. thaliana</i>	52,53

	Flowering regulators	FD – FT	<i>N. benthamiana</i>	56
	Plastid division	MinD1 – MinE1; FtsZ1, ARC6 – FtsZ2	<i>N. tabacum</i>	57
Plant pathogens	Type IV secretion	VirE2 – VirD4	<i>Agrobacterium tumefaciens</i>	44,60
	Host-pathogen interactions	VirE2, VirF, H2A – AtVIP, VirE3	<i>Nicotiana tabacum</i>	45–47

* Features of a specific category of proteins can include protein domains or protein functions. Abbreviations: bHLHZIP, basic helix–loop–helix zipper; BiFC, bimolecular fluorescence complementation; bZIP, basic-region leucine zipper; MAPK, mitogen-activated protein kinase; PKB, protein kinase B. **Protein pairs that have been tested are separated by a dash. In cases where several protein pairs have been tested, the alternative partners are separated by a comma. Different combinations of proteins that have been tested are separated by semi-colons.