

## Supplementary material:

**Table 1:** Dimer interacting residues of the hLrf-BTB domain, and the corresponding 9probable dimer interacting residues of the mKeap1-BTB domain

S. No.	Lrf Dimer residues	Keap1 probable dimer residues
1	Ile933	Phe52
2	Ile11	Tyr54
3	Phe13	Leu56
4	His16	His59
5	Ser17	Thr60
6	Ser18	Lys61
7	Ile20	Ala63
8	Leu21	Phe64
9	Leu24	Met67
10	Gln27	Leu70
11	Leu33	Leu76
12	His48	His96
13	Ser50	Val98
14	Val51	Val99
15	Ala54	Ser102
16	Phe91	Phe139
17	Ala92	Ala140
18	Ala95	Ala143
19	Leu97	Ile145
20	Val99	Val147

**Table 2:** The potential Cul3 interacting residues of hKLHL11, and the corresponding probable Cul3 interacting residues of mouse Keap1

S. No	Cul3 (interacting residues)	KLHL11 (interacting residues)	mKeap (probable interacting residues)	Cul3
Hydrophilic Interactions				
1	Glu55	Tyr121	Val106	
2	Leu52	Ser131	Arg116	
3	Ser53	Glu132	Glu117	
	Phe54			
4	Glu55			
	Tyr58	Arg182	Met161	
	Glu55			
5	Lys68	His213	Glu192	
6	Asn49	Gln129	Gly114	
7	Ile18	Thr170	Glu149	
8	Tyr125	Asp181	Val160	
9	Gln133	Thr216	Gly195	
Hydrophobic Interactions				
10	Met124	Glu120	Pro105	
11	Asp121	Pro124	Ala109	
12	Phe54	Leu125	Met110	
13	Leu52	Phe130	Leu115	
	Phe54			
14	Tyr62	Arg182	Met161	
15	Pro22	Met214	Gln193	
16	Pro22	Pro245	Ser224	