

**Table S1      Candidate kinase Screen, alleles and deficiencies used in the screen****Protein kinase C family**

Name	CG number	location	allele / deficiency	described role
atypical protein kinase C (aPKC)	CG42783	51D5	<i>aPKC</i> <sup>k06403</sup> BL10622	cell polarity
Inactivation no afterpotential C (inaC)	CG6518	53E1	Df(2R)Exel6065	phototransduction
Protein C kinase 53E (PKC53E)	CG6622	53E2	Df(2R)Exel6065	neural processing
Protein kinase C $\delta$ (Pkc $\delta$ )	CG42349	11A10-11	<i>Pkcdelta</i> <sup>e04408</sup> BL18258	none

**Ca<sup>2+</sup>/calmodulin dependent protein kinase family (CAMK)**

Name	CG number	location	allele / deficiency	described role
AMP-activated protein kinase $\alpha$ subunit (AMPK $\alpha$ )	CG3501	2A1	Df(1)Exel6227	energy balance
Death associated protein kinase related (Drak)	CG32666	10C1-10C5	<i>Drak</i> <sup>BG00876</sup>	actomyosin contractility
loki (lok)	CG10895	38B2	Df(2L)Exel7077	DNA damage response
MAP kinase activated protein-kinase-2 (MK2)	CG3086	5B8	Df(1)Exel6236	chronic stress protection
par-1 (par-1)	CG8201	56D9-56D11	<i>par-1</i> <sup>k06323</sup> BL10615	cell polarity
spaghetti-squash activator (sqa)	CG42347	46B1	<i>sqa</i> <sup>f01512</sup> BL18446	starvation induced autophagy
Stretchin-Mlck (Strn-MLCK)	CG44162	52D4-52D9	<i>Strn-Mlck</i> <sup>c02860</sup> BL11089	cytoskeletal dynamics