

Table S1. List of deficiencies identified to cause haploinsufficiency with *ddc>A53T*

Deficiency	Candidate region	Genes in deleted region	Genes analyzed	Confirmed synthetic haploinsufficiency
<i>Df(1)dx81</i>	5C3-6C12	122	62 (51%)	<i>kdn</i>
<i>Df(1)BK10</i>	15F2-16C10	51	36 (69%)	-
<i>Df(2L)Exel6011*</i>	25C7-25D5	31	15 (48%)	-
<i>Df(3L)h-i22</i>	66D10-66D12	13	12 (92%)	-
<i>Df(3R)e-R1*</i>	93B7-93D3	51	39 (76%)	-

* These deficiencies cause synthetic haploinsufficiencies with various other disease models (but not with driver only controls). Consequently, the focus of our analysis was on the remaining candidates.