

Additional file 17. Pleiotropic effects in candidate genes

An asterisk (*) indicates a trait that does not have a significant genetic correlation with the trait(s) in which the gene was identified.

Gene	Trait identified in GWAS	Trait pleiotropic effect observed
brinker	Night sleep Night sleep CV _E	Day bout number* Day sleep Night bout number Waking activity* Day avg. bout length Day bout number CV _E Waking activity CV _E Night avg. bout length CV _E
CG11163	Night sleep CV _E	Day bout number* Day sleep Night bout number Waking activity* Day avg. bout length Night avg. bout length Day bout number CV _E
CG12163	Night sleep CV _E	Day bout number* Day sleep Night bout number Waking activity* Day avg. bout length Night avg. bout length
CG14545	Night sleep Night sleep CV _E	Day bout number* Day sleep Waking activity*
fz	Night sleep CV _E Waking activity CV _E	Day bout number* Day sleep Night bout number Night sleep Day avg. bout length Night avg. bout length Day bout number CV _E Night bout number CV _E Day avg. bout length CV _E Night avg. bout length CV _E

<i>Hey</i>	Night sleep CV_E	Day bout number* Day sleep Night bout number Night sleep Waking activity* Day avg. bout length Night avg. bout length
<i>scrib</i>	Night sleep Night sleep CV_E Waking activity CV_E	Day bout number* Day sleep Night bout number Waking activity Day avg. bout length Night avg. bout length Day bout number CV_E
<i>tkv</i>	Day bout number CV_E Waking activity CV_E	Day bout number Night bout number Night sleep Waking activity Day avg. bout length Night avg. bout length Night sleep CV_E
<i>Ubx</i>	Day avg. bout length Day bout number CV_E Waking activity CV_E	Day bout number Day sleep Night sleep Waking activity Day sleep CV_E Night avg. bout length CV_E
<i>unc-119</i>	Night sleep Night sleep CV_E	Day bout number* Day sleep Night bout number Waking activity* Day avg. bout length Night avg. bout length Waking activity CV_E
<i>Vmat</i>	Night sleep Night sleep CV_E Day avg. bout length	Night bout number Waking activity Night avg. bout length