

S1 Table. Results of SHIRPA (neurology screen).

strain	B6						D2					
	control		nest		double		control		nest		double	
sex	m	f	m	f	m	f	m	f	m	f	m	f
body position	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0
tremor	30/0	30/0	29/1	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
defecation	20/10	16/14	14/16	19/11	20/10	17/13	11/19	18/12	14/16	21/9	17/13	26/4
transfer arousal	0/23/7	0/13/17	0/19/11	0/16/14	0/22/8	0/17/13	0/27/3	0/29/1	0/28/2	0/29/1	0/29/1	0/29/1
gait	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
tail elevation	0/21/9	0/23/7	0/20/10	0/23/7	0/21/9	0/29/1	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0
startle response	0/30/0	0/30/0	0/30/0	0/30/0	0/29/1	0/30/0	0/30/0	1/29/0	2/28/0	0/30/0	0/30/0	0/30/0
touch escape	0/19/11	0/21/9	0/25/5	0/25/5	0/22/8	0/23/7	0/23/7	0/24/6	0/25/5	0/22/8	0/22/8	0/25/5
trunk curl	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
limb grasping	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
pinna reflex	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
urination	8/22	4/26	9/21	11/19	8/22	6/24	6/24	1/29	5/25	6/24	4/26	4/26
contact righting reflex	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
evidence of biting	30/0	30/0	30/0	30/0	30/0	29/1	30/0	30/0	30/0	30/0	30/0	30/0
vocalisation	25/5	25/5	26/4	23/7	23/7	28/2	27/3	28/2	26/4	27/3	28/2	28/2

Results are presented as number of animals receiving the parameter-specific score in combined cohorts and are described as following: (x/y/z) with x= number of animals with score “0”, y= number of animals with score “1”, z= number of animals with score “2”. Specifications for scores: body position: 0= inactive, 1= active, 2= excessively active; tremor: 0= absent, 1= present; defecation: 0= present, 1= absent; transfer arousal: 0= prolonged freeze, 1= brief freeze, 2= immediate movement; gait: 0= fluid, 1= abnormal; tail elevation: 0= dragging, 1= horizontal, 2= elevated; startle response: 0= no reaction, 1= Preyer reflex, 2= jumping; touch escape: 0= no response, 1= response to touch, 2= flees prior to touch; trunk curl: 0= absent, 1= present; limb grasping: 0= absent, 1= present; pinna reflex: 0= present, 1= absent; urination: 0= present, 1= absent; contact righting reflex: 0= present, 1= absent; evidence of biting: 0= no aggression, 1= aggressive; vocalization: 0= no, 1= yes.