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***Table S2. Gross phenotype of Ptpn2–/– (BALB/c), Ptpn2ex2–/ex2– and Ptpn2–/– (C57BL/6) mice.***

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| --- | --- | --- | --- | --- | --- |
| **Genotype** | Runtiness | Hunchedposture | Piloerection | Diarrhoea | Eye lidclosure |
| *Ptpn2–*/*–* (BALB/c)n=6 | 6 (100%) | 6  (100%) | 6 (100%) | 6 (100%) | 6 (100%) |
| *Ptpn2ex2–/ex2–* n=8 | 8 (100%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| *Ptpn2–*/*–* (C57BL/6) n=8 | 8(100%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

Runtiness, posture, piloerrection, diarrhoea and eye lid closure were assessed in 18 day-old *Ptpn2–*/*–* (BALB/c), 28 day-old *Ptpn2ex2–/ex2–*and 28 day-old *Ptpn2–*/*–* (C57BL/6) mice.