Figure S1. Silencing of ATF4 by si-ATF4 transfection in mice. ATF4 mRNA expression levels were significantly decreased following si-ATF4 transfection compared with untransfected or transfection with si-Con. ATF4, activating transcription factor 4; si, small interfering; Con, control.
| Test                          | Behavior                                                                 | Score |
|-------------------------------|--------------------------------------------------------------------------|-------|
| Spontaneous activity          | Moved around; explored the environment; approached ≥3 walls of the cage | 3     |
|                               | Slightly affected movement; did not approach walls of the cage            | 2     |
|                               | Hesitant movement; moved to least one upper edge of the cage              |       |
|                               | Severely affected movement; did not rise up at all; barely moved around the cage | 1     |
| Symmetrical limb movement     | All four limbs extended symmetrically                                     | 3     |
|                               | Left limbs extended less or more slowly than right limbs                  | 2     |
|                               | Left limbs showed minimal movement                                        | 1     |
|                               | No left forelimb movement                                                 | 0     |
| Forepaw outstretched          | Both forepaws outstretched; symmetrical forepaw walking                 | 3     |
|                               | Left side outstretched less than the right; impaired forepaw walking     | 2     |
|                               | Minimal left forepaw movement                                             | 1     |
|                               | No left forepaw movement                                                 | 0     |
| Climbing                      | Climbed easily; gripped wire tightly                                      | 3     |
|                               | Climbing impaired on the left side or looser grip on wire compared with right side | 2     |
|                               | Failed to climb or tended to circle                                       | 1     |
| Proprioception                | Turned head; equally startled by stimulus on both sides                   | 3     |
|                               | Reacted slowly to stimulus on the left side                              | 2     |
|                               | Did not react to stimulus on the left side                               | 1     |
| Response to vibrissae touch   | Turned head; equally startled by stimulus on both sides                   | 3     |
|                               | Reacted slowly to stimulus on the left side                              | 2     |
|                               | Did not react to stimulus on the left side                               | 1     |