## Open Peer Review on Qeios

## Proximal spinal muscular atrophy type 4

## INSERM

## Source

INSERM. (1999). Orphanet: an online rare disease and orphan drug data base. <u>Proximal</u> <u>spinal muscular atrophy type 4</u>. ORPHA:83420

Proximal spinal muscular atrophy type 4 (SMA4) is the adult-onset form of proximal spinal muscular atrophy (see this term) characterized by muscle weakness and hypotonia resulting from the degeneration and loss of the lower motor neurons in the spinal cord and the brain stem nuclei.