

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: The movie shows an example Catwalk XT analysis of a wildtype mouse three days post intra-articular saline injection. **Top**, video of the mouse walking along the catwalk. Note footprints are detected by the Catwalk XT system and are depicted in green. **Bottom left**, visualization of the spatial and temporal changes in footprint intensity. **Bottom right**, time course of maximum (red line) and mean (shaded areas) of the footprint intensity of the four paws (RF = right forepaw, RH = right hind paw, LF = left forepaw, LH = left hind paw).

File Name: Supplementary Movie 2

Description: The movie shows an example Catwalk XT analysis of a wildtype mouse three days post intra-articular CFA injection. **Top**, video of the mouse walking along the catwalk. Note footprints are detected by the Catwalk XT system and are depicted in green. **Bottom left**, visualization of the spatial and temporal changes in footprint intensity. **Bottom right**, time course of maximum (red line) and mean (shaded areas) of the footprint intensity of the four paws (RF = right forepaw, RH = right hind paw, LF = left forepaw, LH = left hind paw).

File Name: Supplementary Movie 3

Description: The movie shows an example Catwalk XT analysis of a TMEM100KO mouse three days post intra-articular CFA injection. **Top**, video of the mouse walking along the catwalk. Note footprints are detected by the Catwalk XT system and are depicted in green. **Bottom left**, visualization of the spatial and temporal changes in footprint intensity. **Bottom right**, time course of maximum (red line) and mean (shaded areas) of the footprint intensity of the four paws (RF = right forepaw, RH = right hind paw, LF = left forepaw, LH = left hind paw).