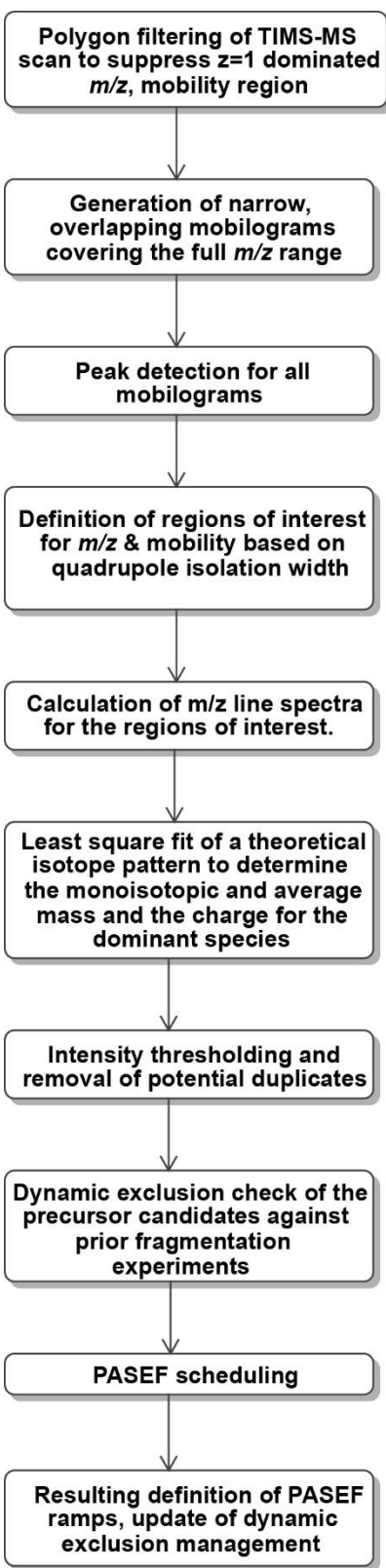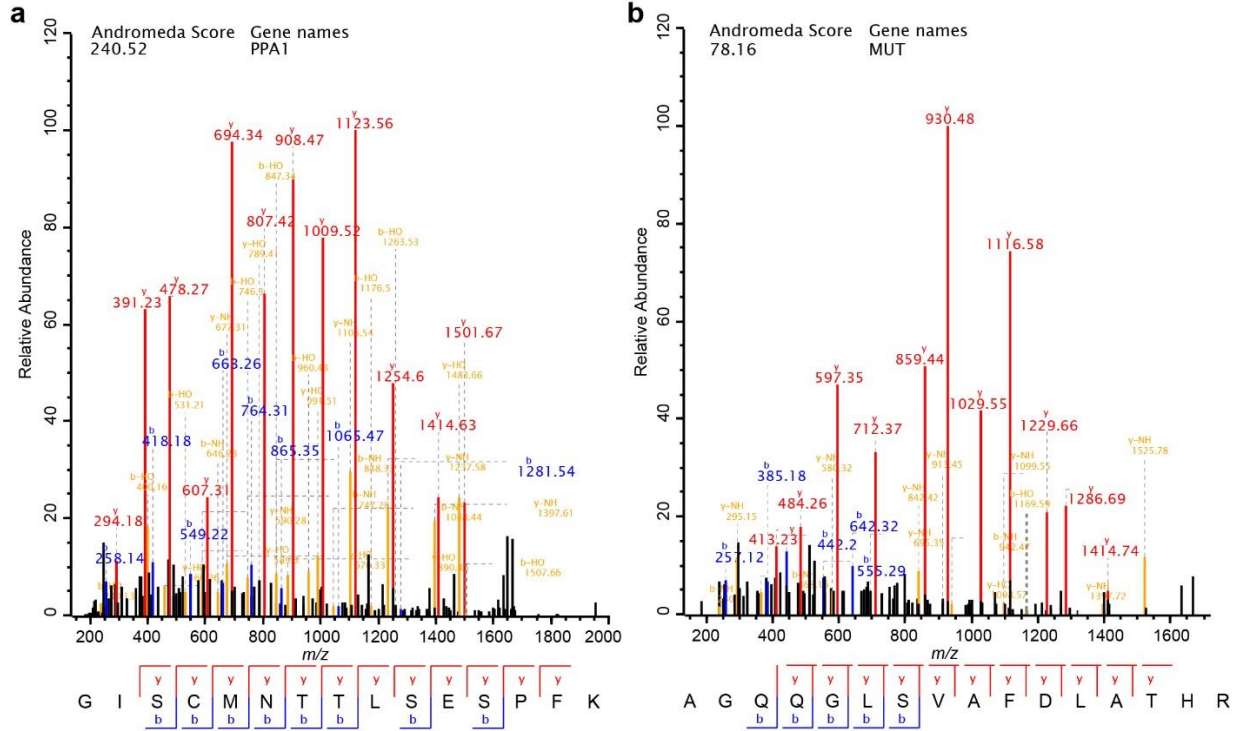**Supplementary Figures for**

Online parallel accumulation – serial fragmentation (PASEF) with a novel trapped ion mobility mass spectrometer

Florian Meier, Andreas-David Brunner, Scarlet Koch, Heiner Koch, Markus Lubeck, Michael Krause, Niels Goedecke, Jens Decker, Thomas Kosinski, Melvin A. Park, Nicolai Bache, Ole Hoerning, Jürgen Cox, Oliver Räther, Matthias Mann

Supplementary Figure 1. Schematic of the online PASEF precursor ion selection algorithm.

Supplementary Figure 2. MaxQuant identification of co-eluting peptides of very similar mass, which would have been co-fragmented without TIMS.