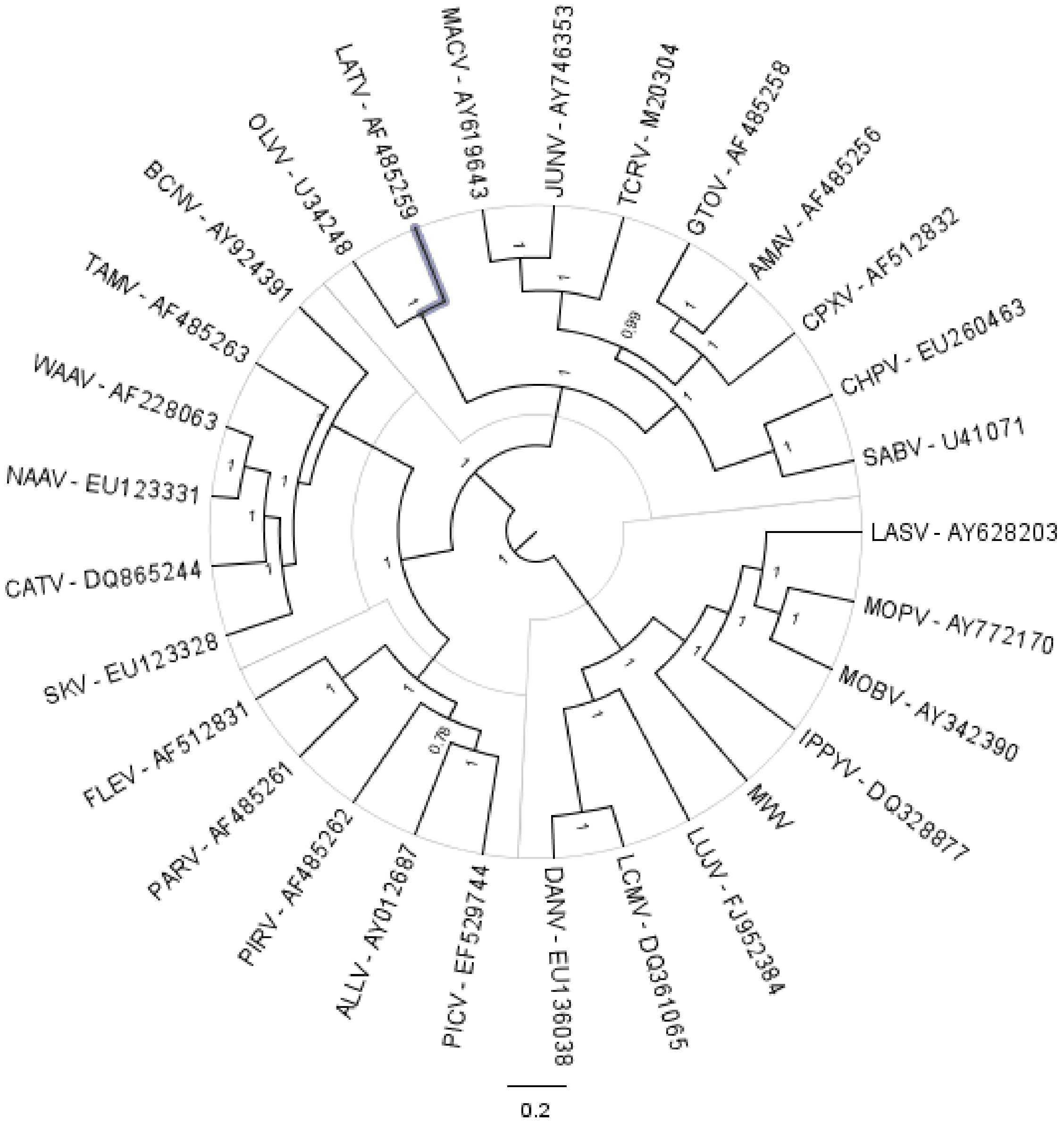
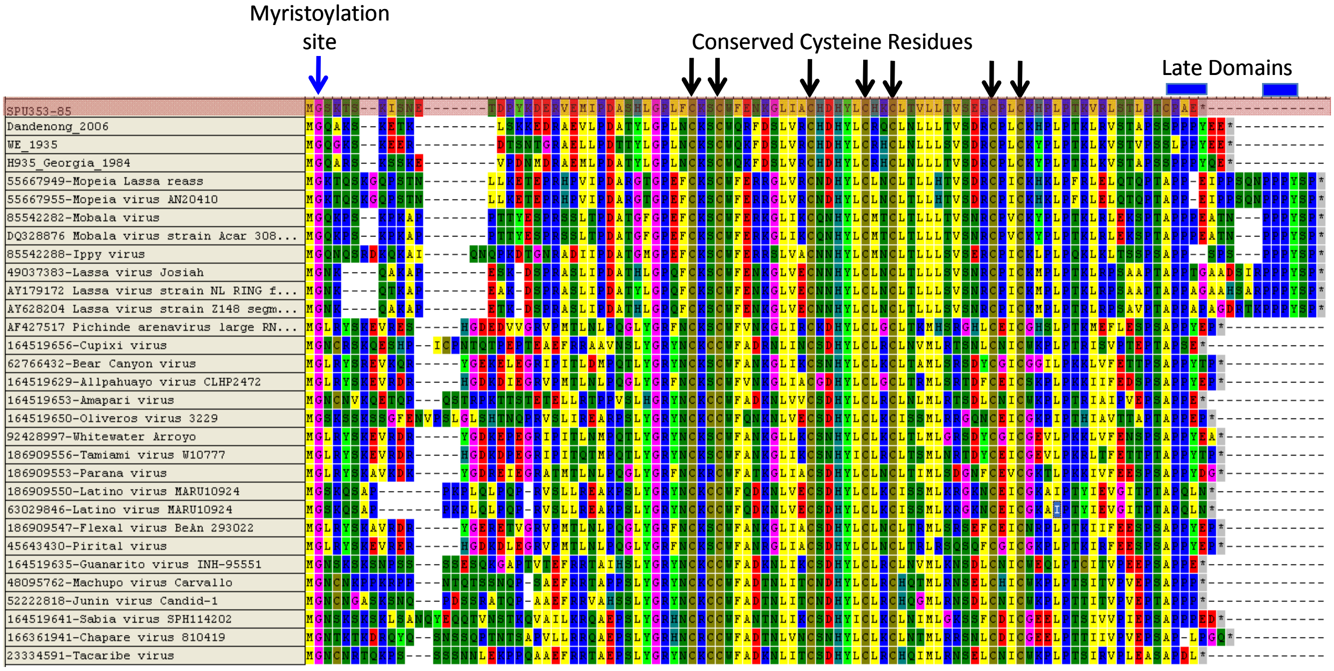


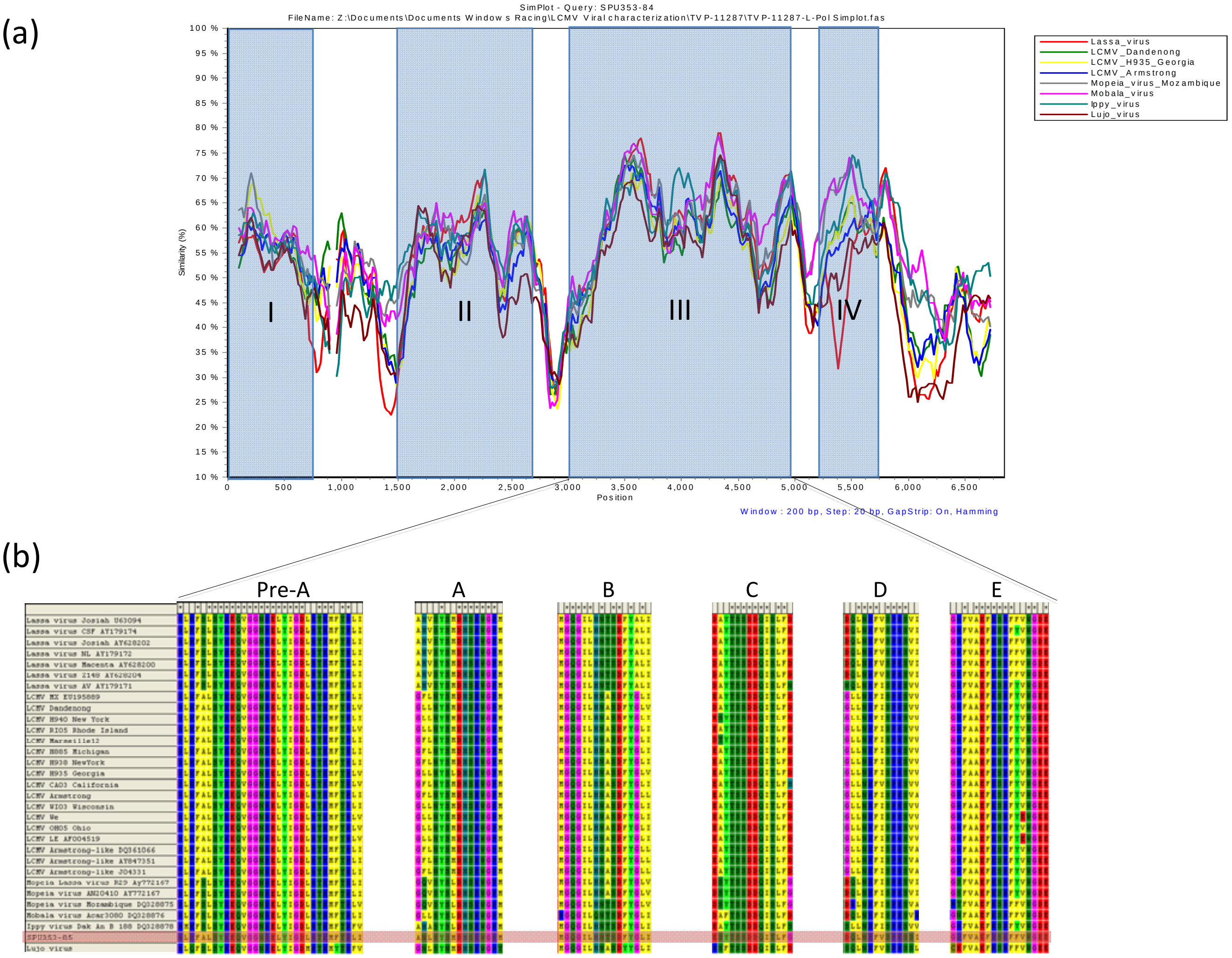
Supplementary Fig. S1. Bayesian analyses of Merino Walk virus (MWV), inferred based on the NP nucleotide sequence.

Palacios, G., Savji, N., Hui, J., Travassos da Rosa, A., Popov, V., Briese, T., Tesh, R. & Lipkin, W. I. (2010). Genomic and phylogenetic characterization of Merino Walk virus, a novel arenavirus isolated in South Africa. *J Gen Virol* **91**, 1315–1324.



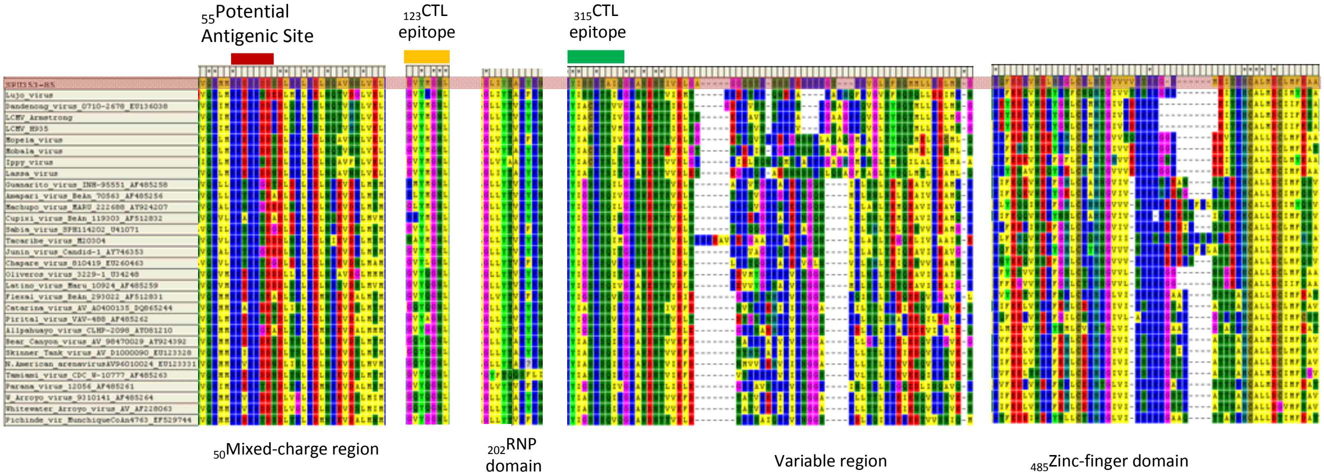
Supplementary Fig. S2. Motifs in the Z protein of MWV conserved with other arenaviruses. The shortened Z protein of MWV contains neither conserved late domain.

Palacios, G., Savji, N., Hui, J., Travassos da Rosa, A., Popov, V., Briese, T., Tesh, R. & Lipkin, W. I. (2010). Genomic and phylogenetic characterization of Merino Walk virus, a novel arenavirus isolated in South Africa. *J Gen Virol* **91**, 1315–1324.



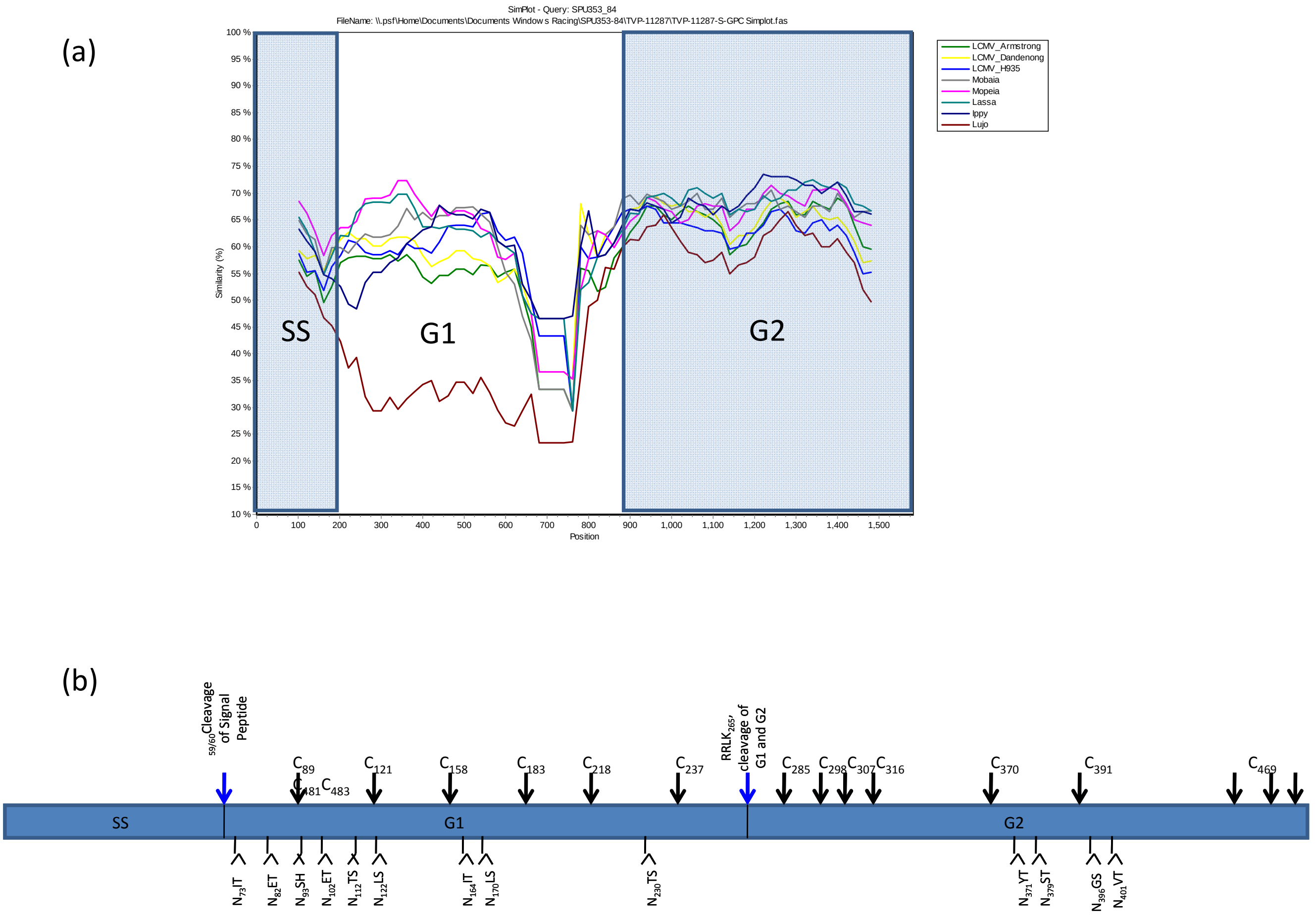
Supplementary Fig. S3. Simplot of L segment (a) and motifs (b) in region **III** (pre-A, A, B, C, D, E) of MWV conserved with other Old World arenaviruses.

Palacios, G., Savji, N., Hui, J., Travassos da Rosa, A., Popov, V., Briese, T., Tesh, R. & Lipkin, W. I. (2010). Genomic and phylogenetic characterization of Merino Walk virus, a novel arenavirus isolated in South Africa. *J Gen Virol* **91**, 1315–1324.



Supplementary Fig. S4. Motifs, variable region and zinc-finger domain in the nucleocapsid protein of MWV conserved with other arenaviruses.

Palacios, G., Savji, N., Hui, J., Travassos da Rosa, A., Popov, V., Briese, T., Tesh, R. & Lipkin, W. I. (2010). Genomic and phylogenetic characterization of Merino Walk virus, a novel arenavirus isolated in South Africa. *J Gen Virol* **91**, 1315–1324.



Supplementary Fig. S5. Simplot of the M segment (a) with other Old World arenaviruses and conserved motifs (b) among the signal sequence, G1 and G2 proteins.

Palacios, G., Savji, N., Hui, J., Travassos da Rosa, A., Popov, V., Briese, T., Tesh, R. & Lipkin, W. I. (2010). Genomic and phylogenetic characterization of Merino Walk virus, a novel arenavirus isolated in South Africa. *J Gen Virol* **91**, 1315–1324.