Supplementary material to article by K. Kaibuchi-Noda “Darier’s Disease: A novel ATP2A2 Missense Mutation at One of the Calcium-binding Residues”

Fig. S1. Sequence alignments around the missense mutation, and the structure of SERCA2b. The sequence alignment of the SERCA family of Homo sapiens and the SERCA2b of mammals (A). Glu907 is in red. The glutamic acid is conserved among the SERCA family and diverse species. The structure of SERCA2b (B). There are 11 transmembrane domains (TM). Calcium-binding residues V304, A305, I307, E309 (TM4), N767, E770 (TM5), N795, T798, D799 (TM6) and E907 (TM8), located approximately in the middle of the TM. The novel mutation alters E907, indicated in red font. M indicates the membrane.