



Fig. S1. Increased expression of melanogenesis genes following phototherapy were seen in patients with better clinical improvement. Eleven patients (p1–p4 and p6–p12) who fulfilled treatment were assessed and grouped into 3 categories: excellent ($n=7$), good ($n=2$, p1 and p9) and unsatisfactory ($n=2$, p6 and p7) response. Epidermal gene expression in psoriatic lesion prior to (Pre-UV), during (Mid-UV) and before the last session of NB-UVB phototherapy (Post-UV) is shown. Fold change in gene expression following phototherapy (Post-UV/Pre-UV) was calculated and shown in dashed line (Response to UV). An overall higher induction of gene expression in TYR, TYRP1, SOX10, MC1R and MITF were seen in patients with good or excellent clinical improvement after treatment.