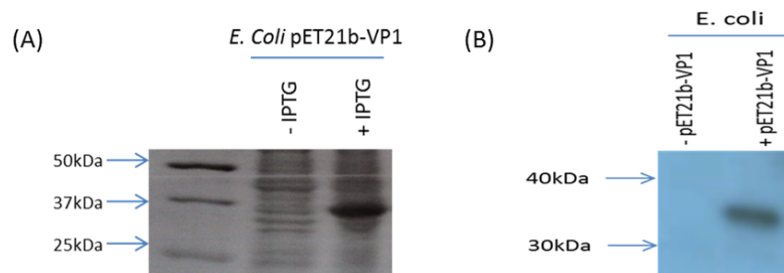


## Supplementary Figures

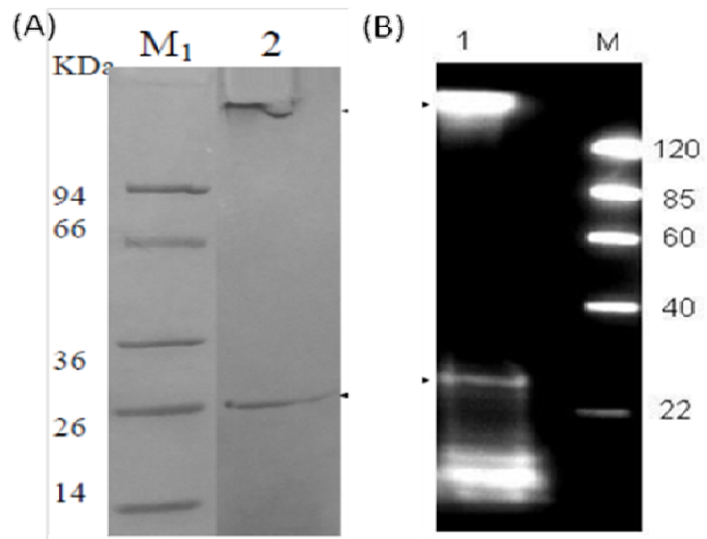
### Silk-based microneedle transdermal immunization with EV71 vaccines elicits potent immune responses in mice

Bingling Xu, Waseem K. Raja, Sangun Lee, Weilong Liu, Izzuddin M. Diwan, Bruce J. Panilaitis, David L. Kaplan and Saul Tzipori

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**Supplementary Figure 1** Western Blot analysis of Expression of recombinant VP1 protein in *E. coli*. (a) A 36kDa protein was induced by 0.1M IPTG overnight in *E. coli* BL21 transformed with plasmid pET-21b-VP1. (b) VP1 protein expression was confirmed by western blot assay using mouse polyclone anti-EV71 serum.



**Supplementary Figure 2** SDS-PAGE and Western-blot analysis of *E. coli* expressed recombinant VP3 protein. (a) SDS-Page analysis of VP3 protein after coomassie-blue staining. M1, protein marker. 2, VP3. (b) Western-blot analysis of recombinant VP3 protein using anti-His tag serum. 1, VP3. M. protein marker.