

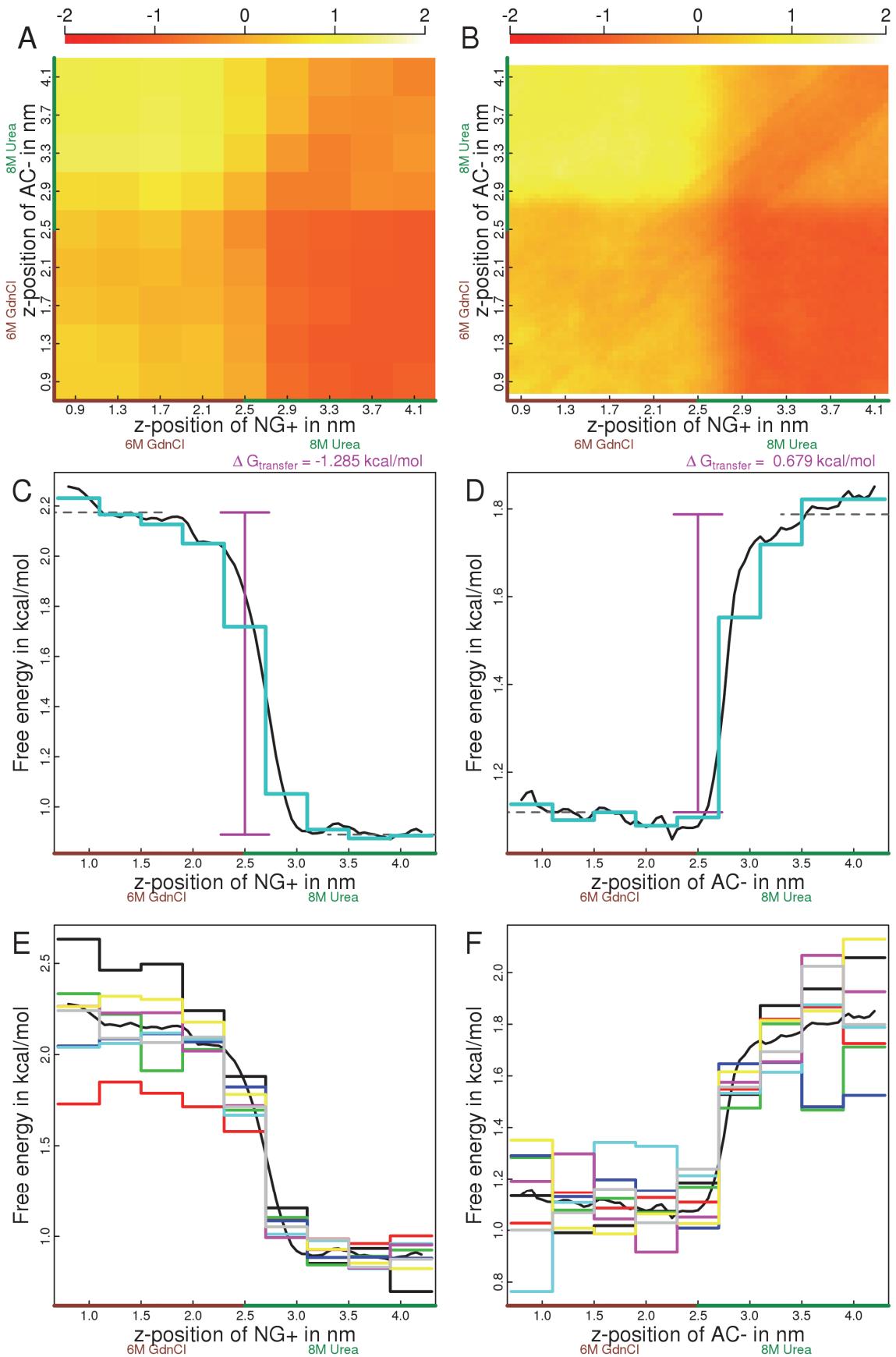
**Supplementary Information for  
Precise estimation of transfer free energies for ionic species  
between similar media**

Carmen Esposito and Andreas Vitalis

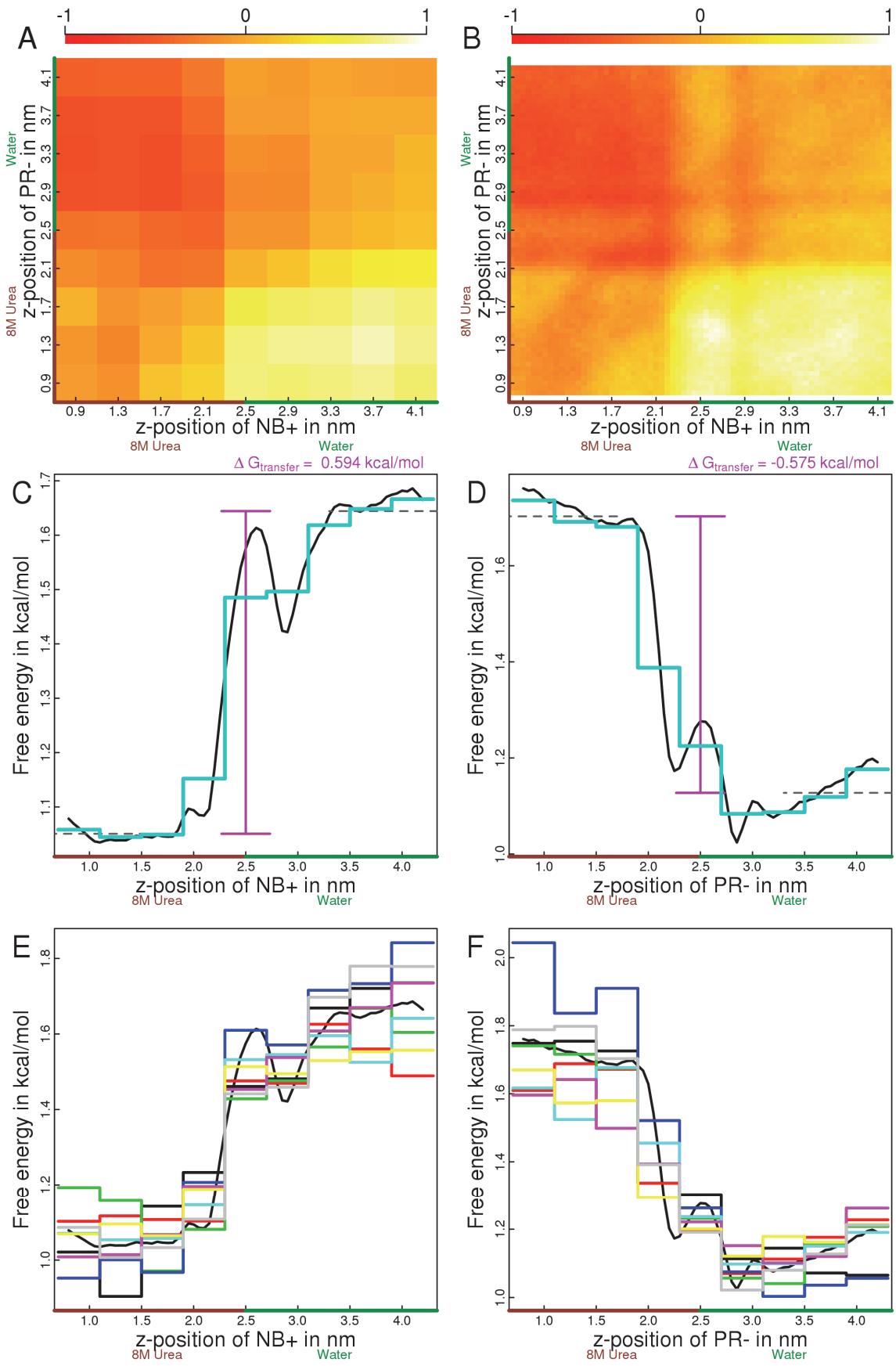
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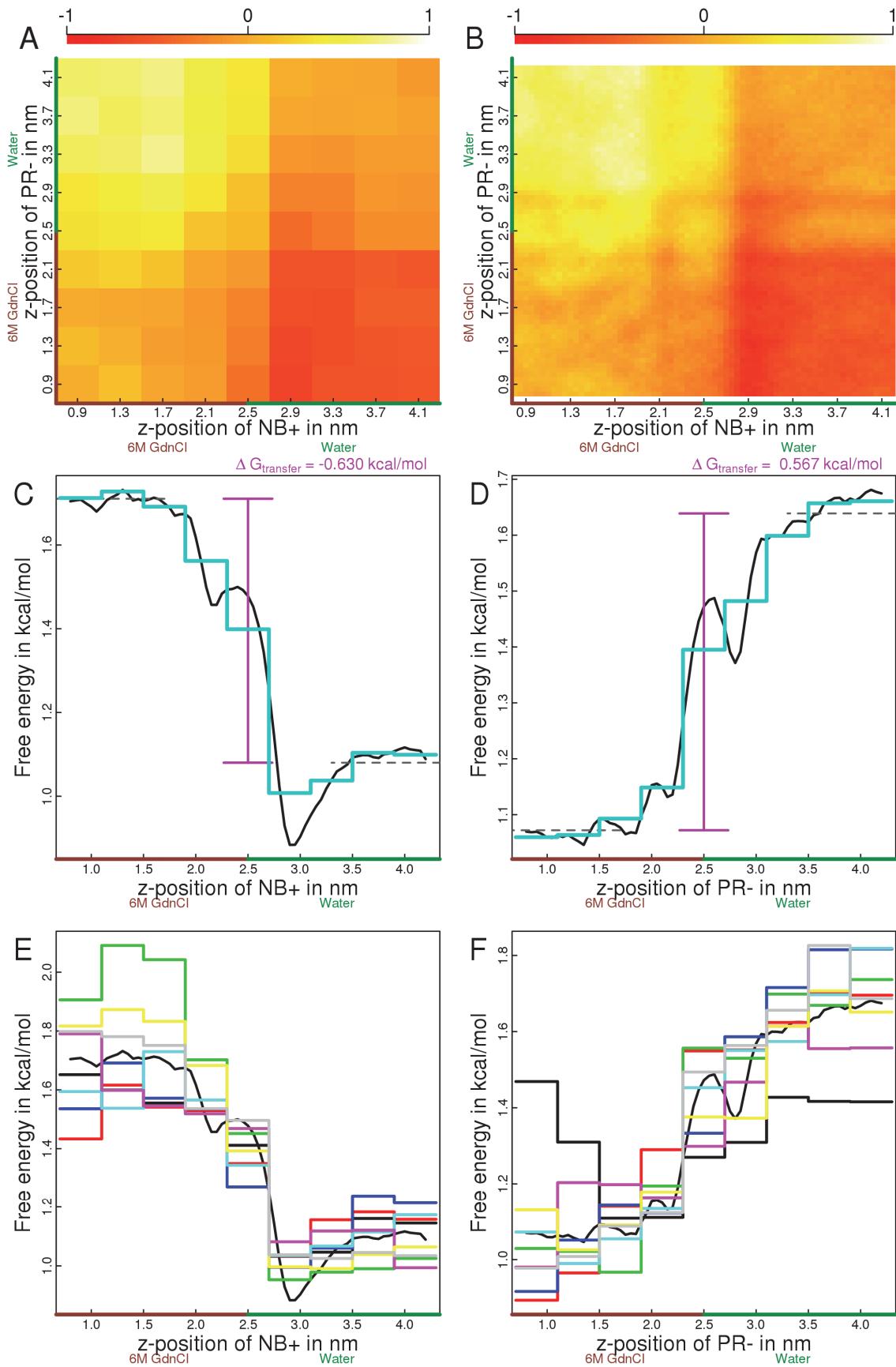
**Figures S1-S7:** Detailed results for further ion pairs and transfer processes (analogous to Fig. 2 in the main text).



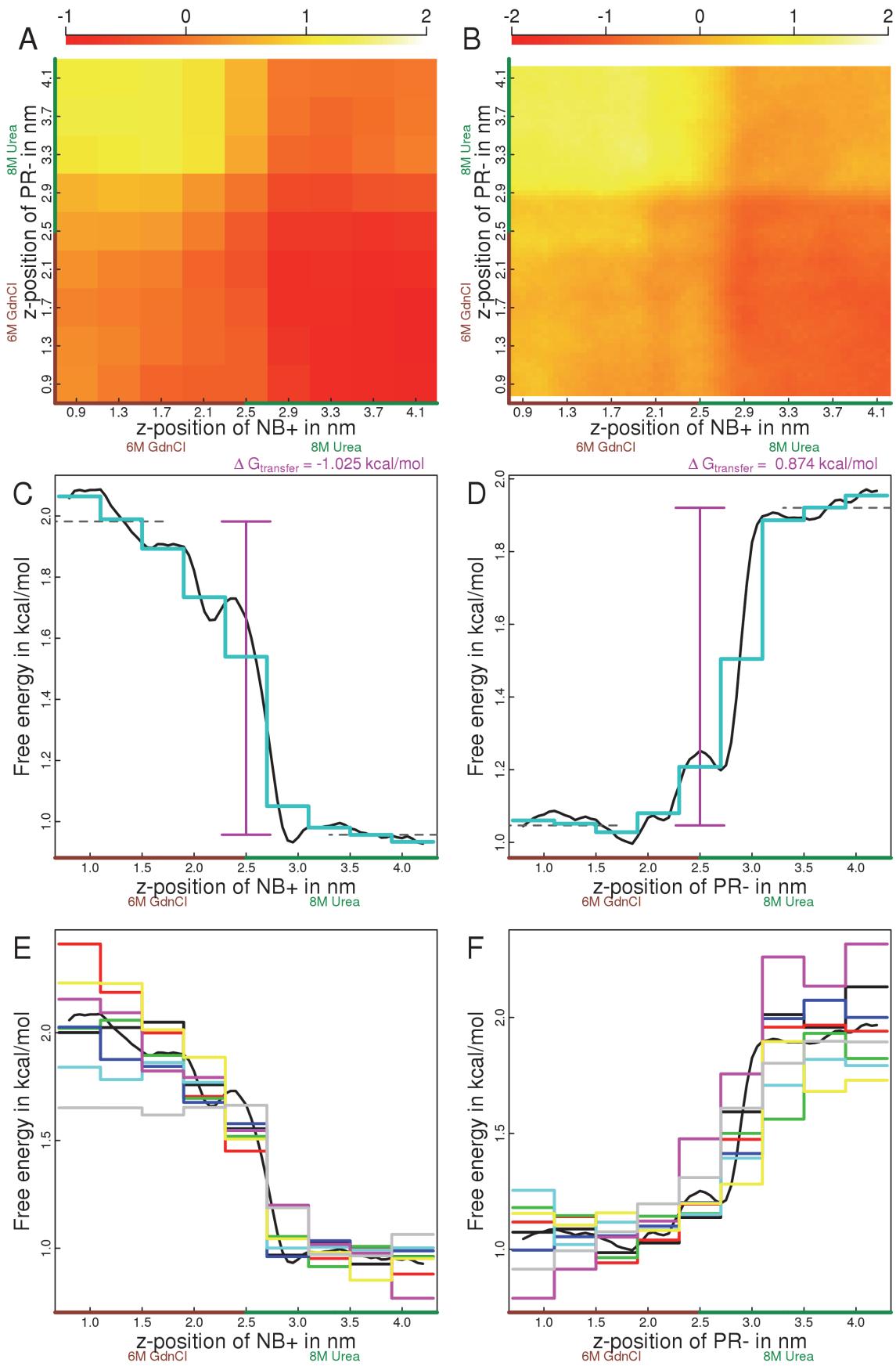
**Figure S1.** The same as Fig. 2 in the main text for the transfer between 6 M GdnCl and 8 M urea (for  $\text{NG}^+$  and  $\text{AC}^-$ ).



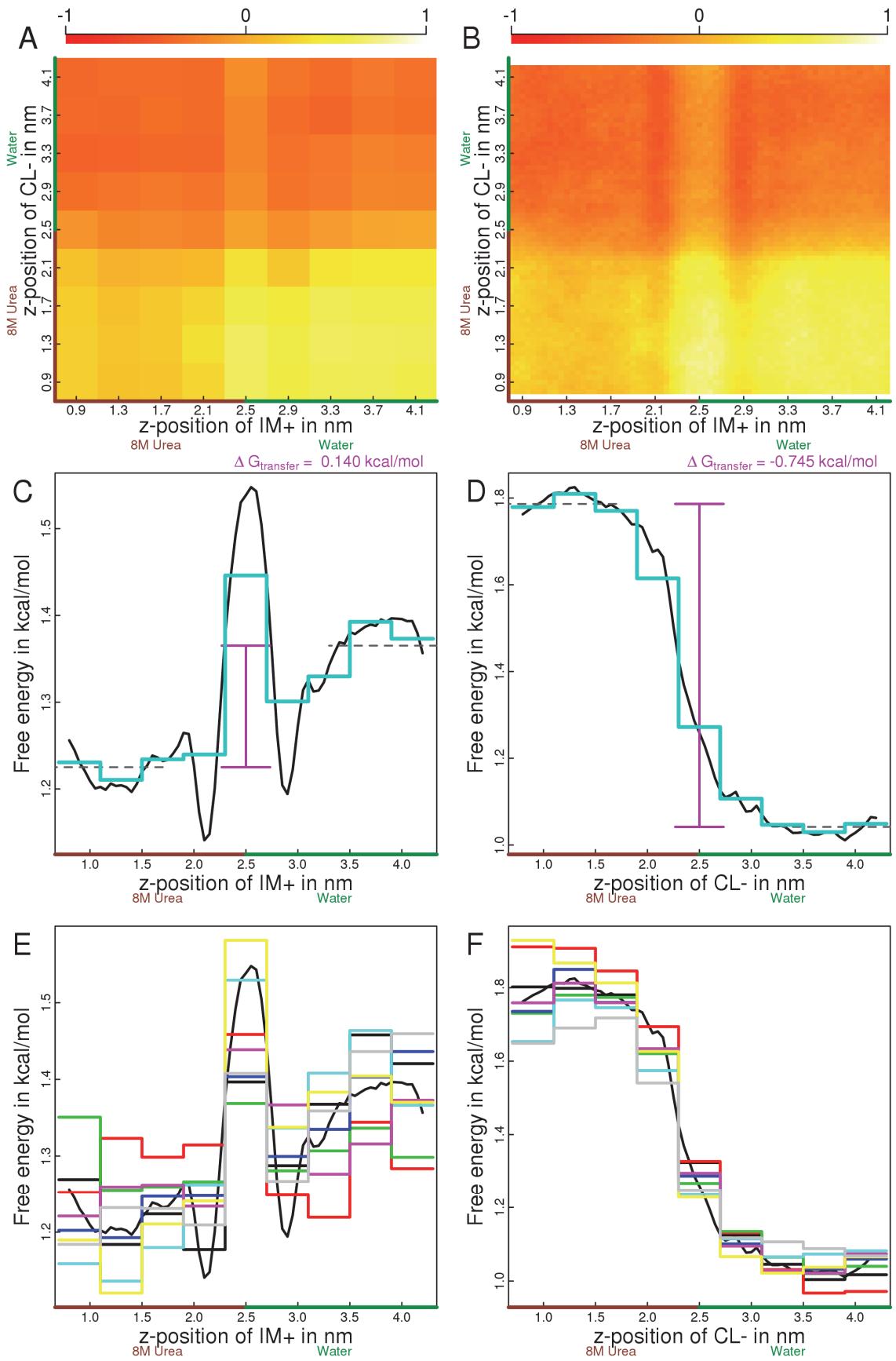
**Figure S2.** The same as Fig. 2 in the main text but for NB<sup>+</sup> and PR<sup>-</sup> and the transfer between 8 M urea and water.



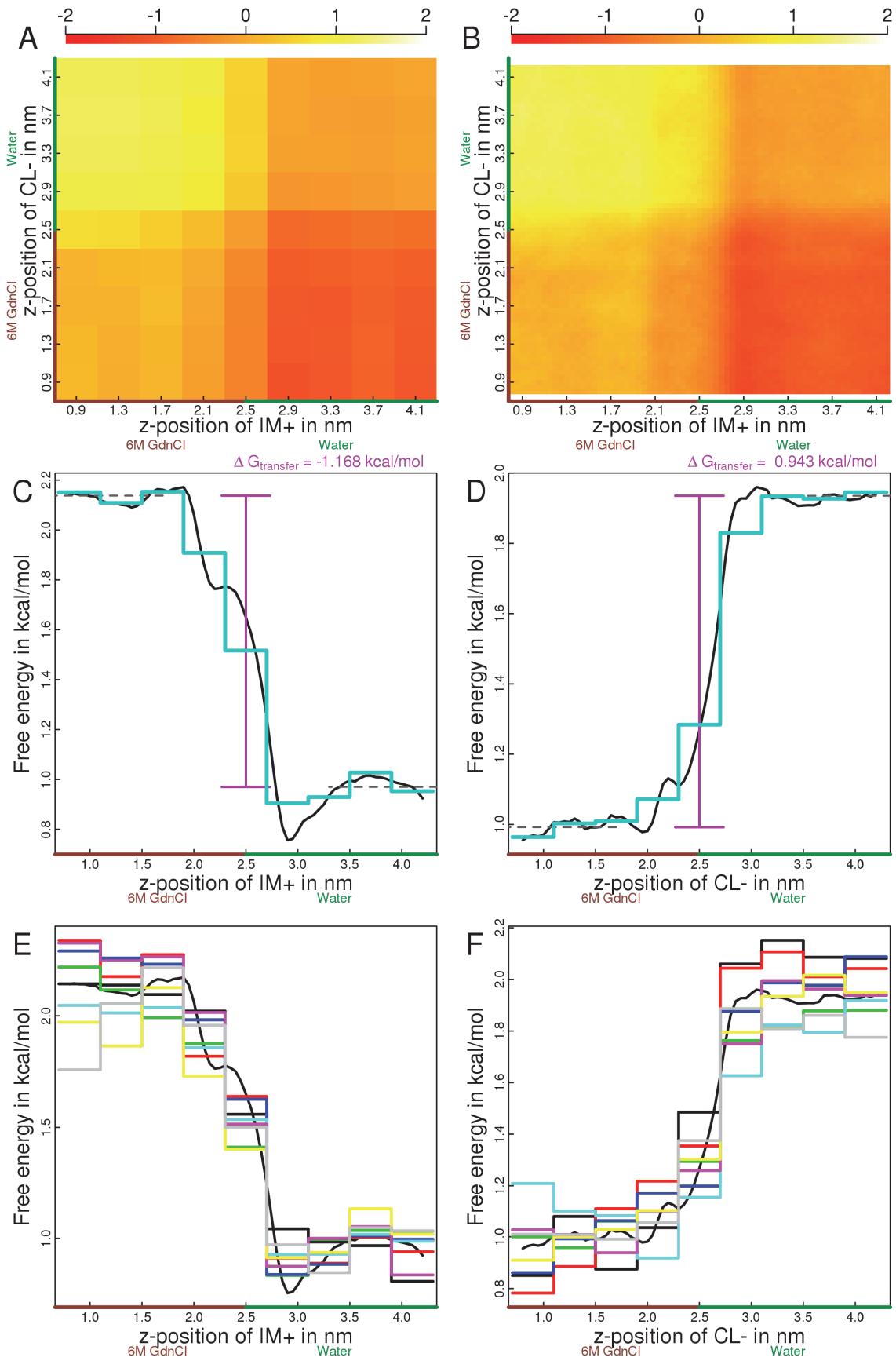
**Figure S3.** The same as Fig. 2 in the main text but for  $\text{NB}^+$  and  $\text{PR}^-$  and the transfer between 6 M GdnCl and water.



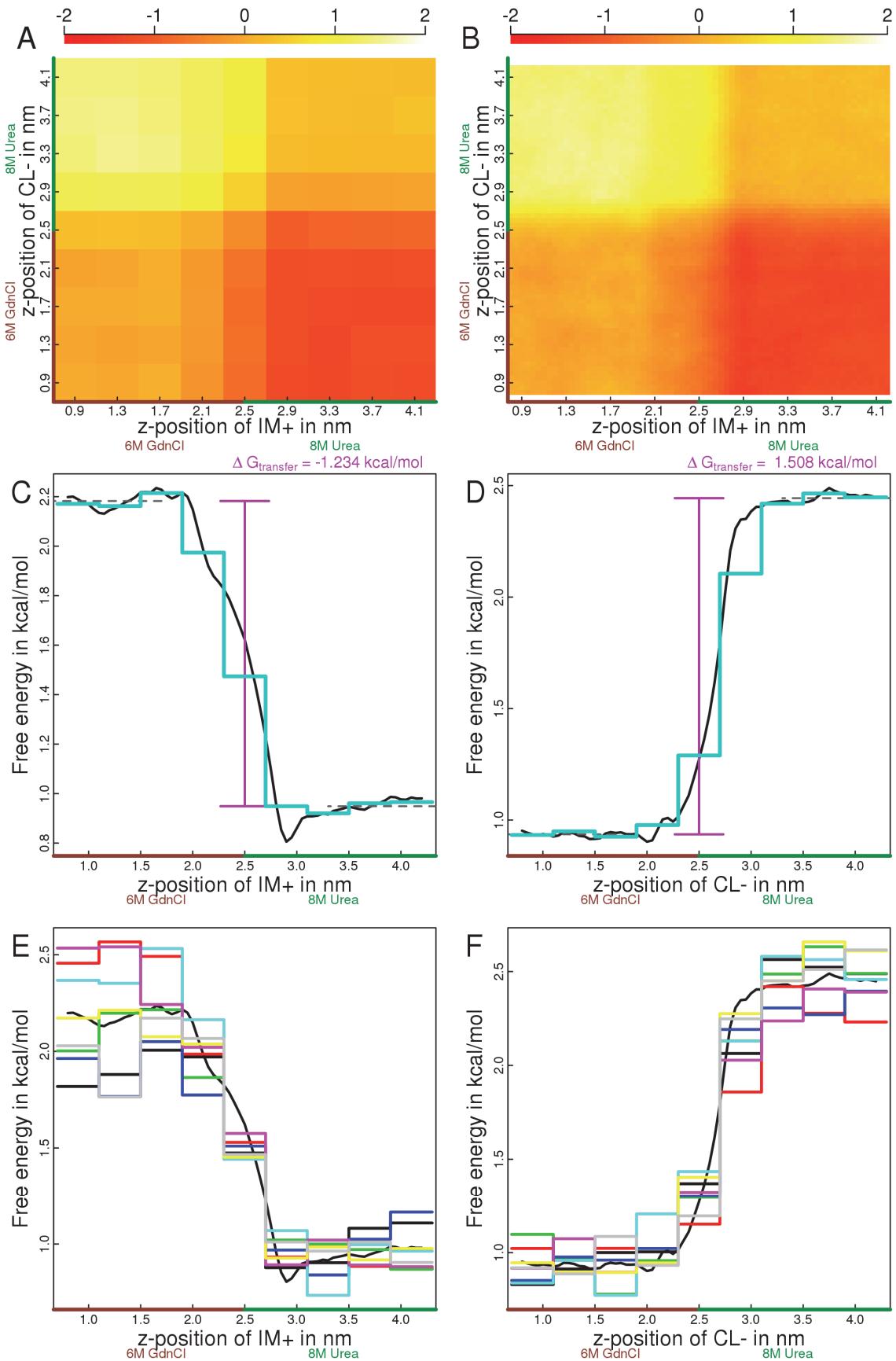
**Figure S4.** The same as Fig. 2 in the main text but for NB<sup>+</sup> and PR<sup>-</sup> and the transfer between 6 M GdnCl and 8 M urea.



**Figure S5.** The same as Fig. 2 in the main text but for  $\text{IM}^+$  and  $\text{CL}^-$  and the transfer between 8 M urea and water.



**Figure S6.** The same as Fig. 2 in the main text but for IM<sup>+</sup> and CL<sup>-</sup> and the transfer between 6 M GdnCl and water.



**Figure S7.** The same as Fig. 2 in the main text but for  $\text{IM}^+$  and  $\text{CL}^-$  and the transfer between 6 M GdnCl and 8 M urea.