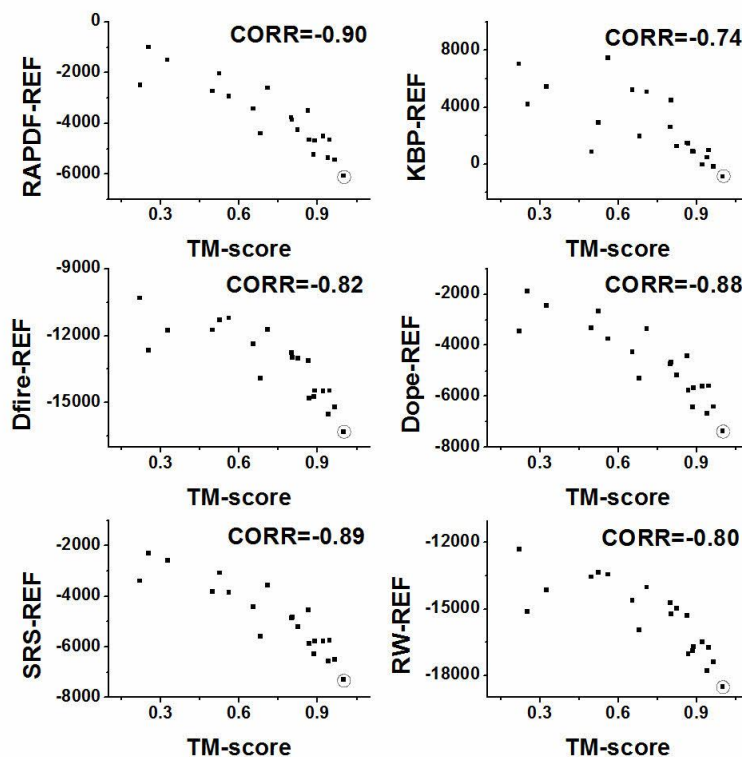
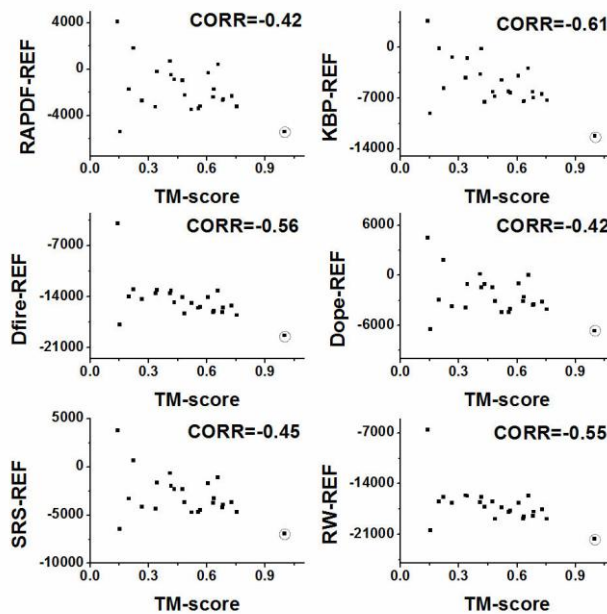


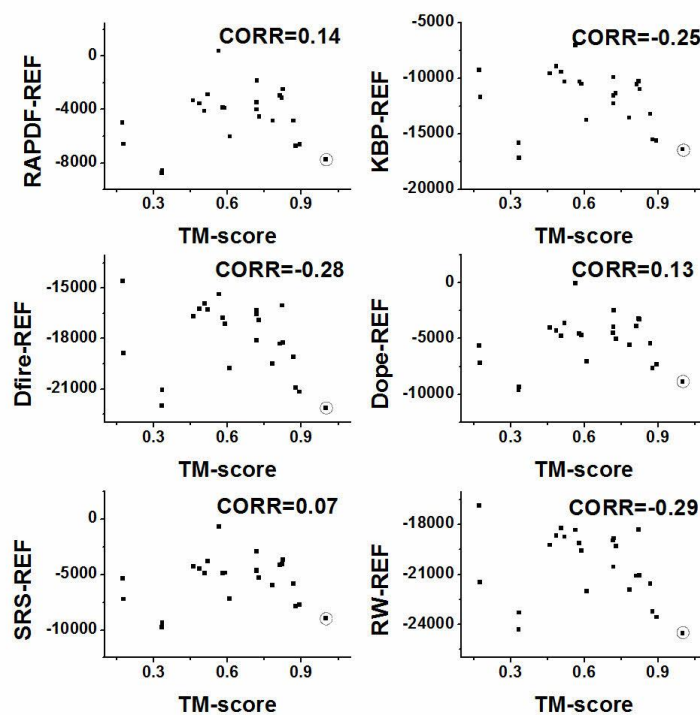
## Supporting Materials



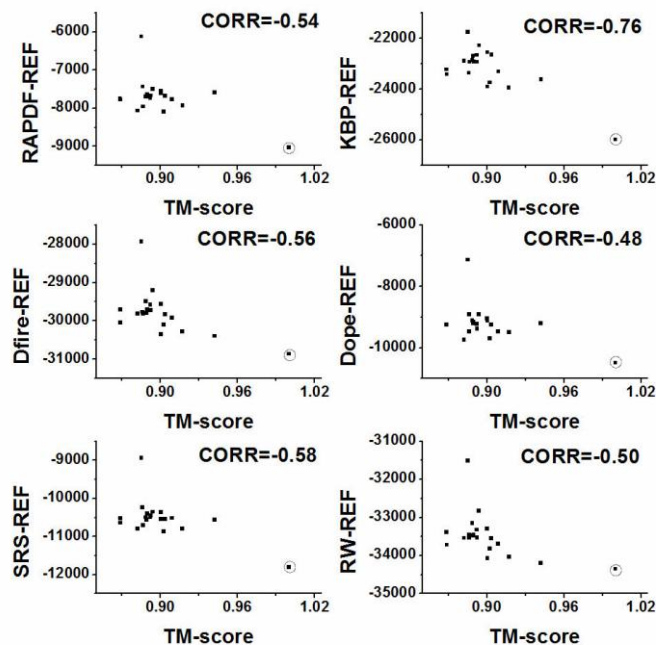
**Figure S1.** Atomic potentials versus TM-score for structural decoys of Target T0137 in the CASP decoy set. The native structure is highlighted by the open circles.



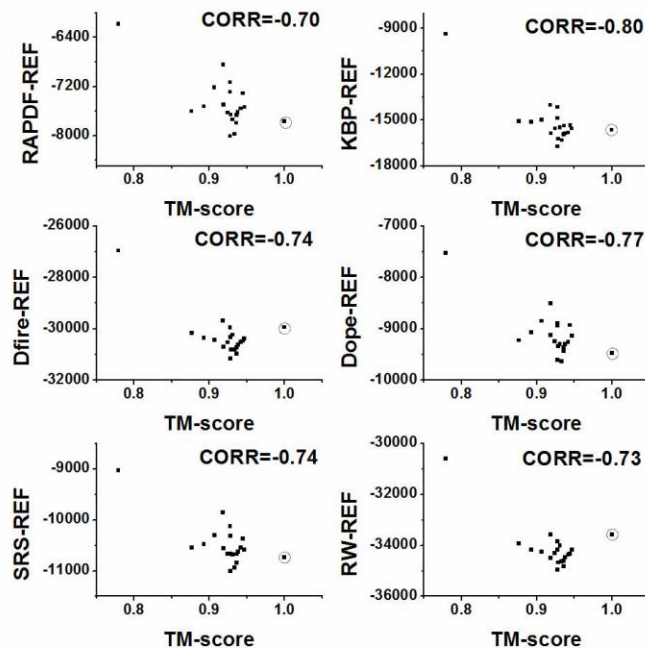
**Figure S2.** Atomic potentials versus TM-score for structural decoys of Target T0211 in the CASP decoy set. The native structure is highlighted by the open circles.



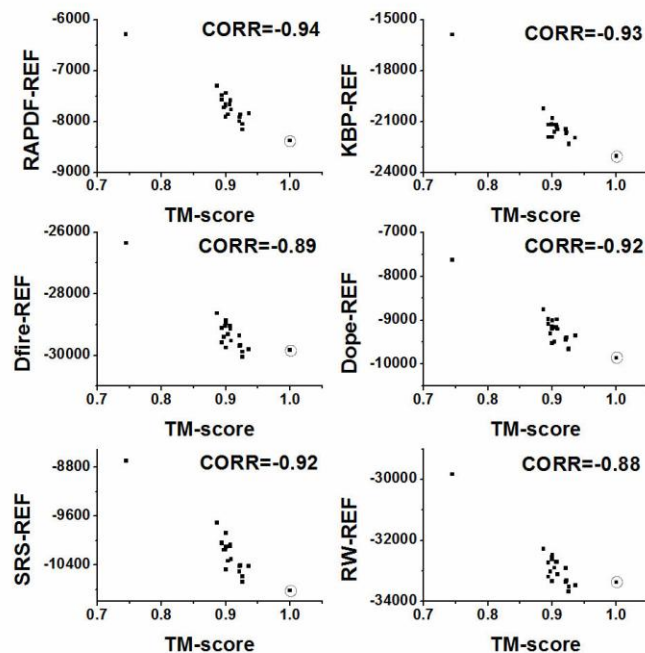
**Figure S3.** Atomic potentials versus TM-score for structural decoys of Target T0423 in the CASP decoy set. The native structure is highlighted by the open circles.



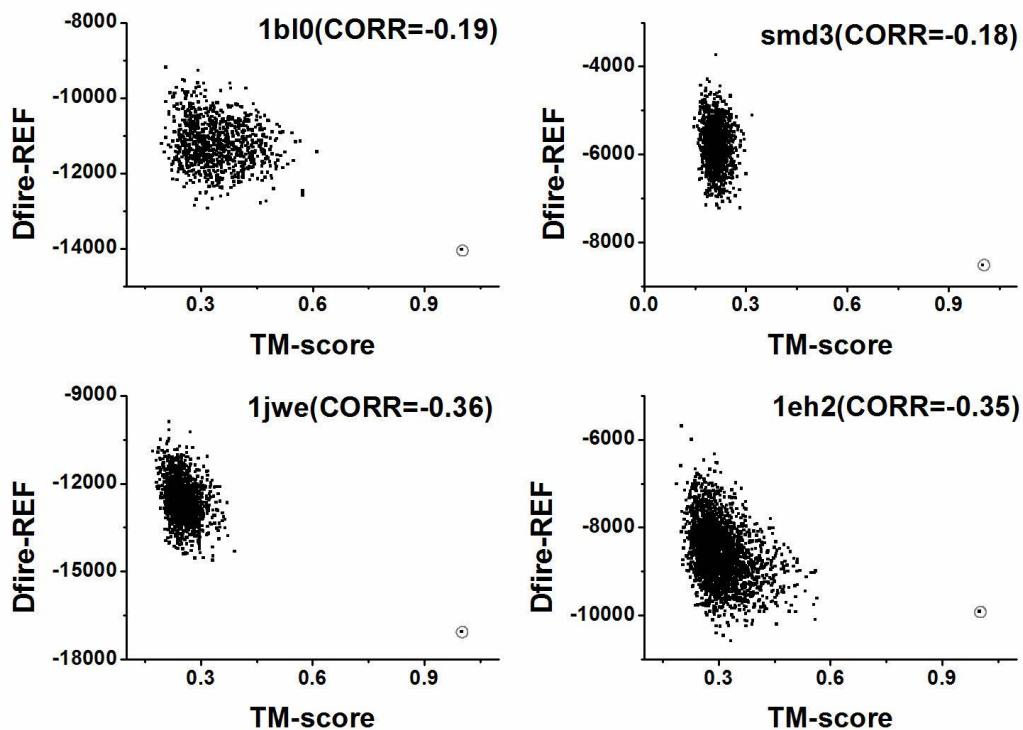
**Figure S4.** Atomic potentials versus TM-score for structural decoys of 1mfa in the *ig\_structal\_hires* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



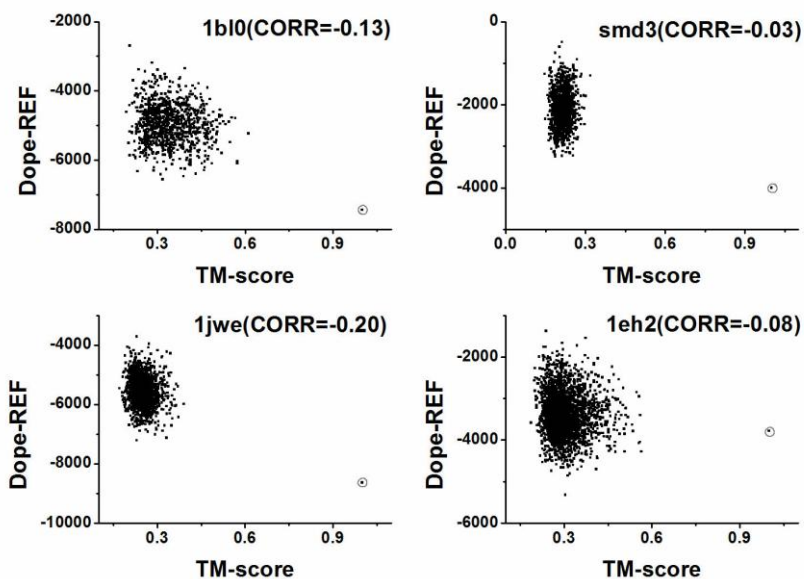
**Figure S5.** Atomic potentials versus TM-score for structural decoys of 1vge in the *ig\_structural\_hires* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



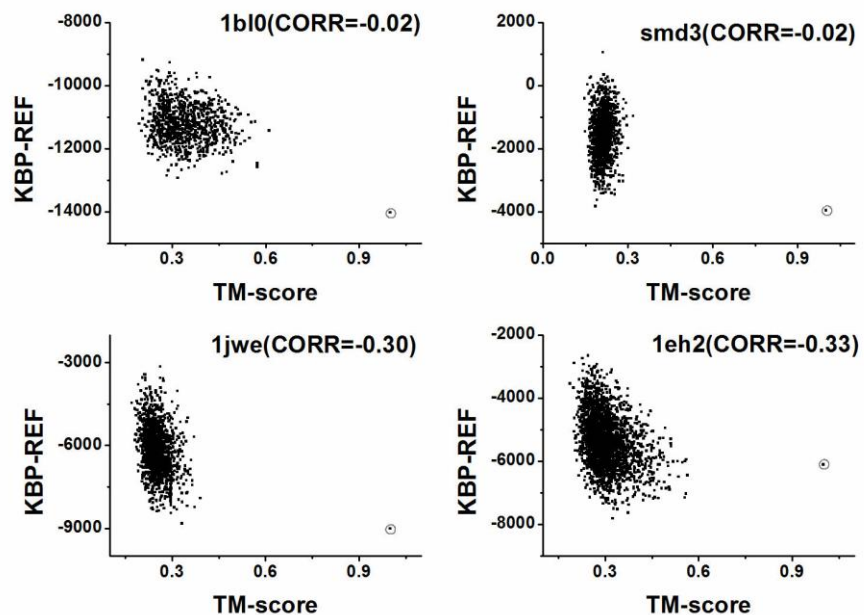
**Figure S6.** Atomic potentials versus TM-score for structural decoys of 7fab in the *ig\_structural\_hires* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



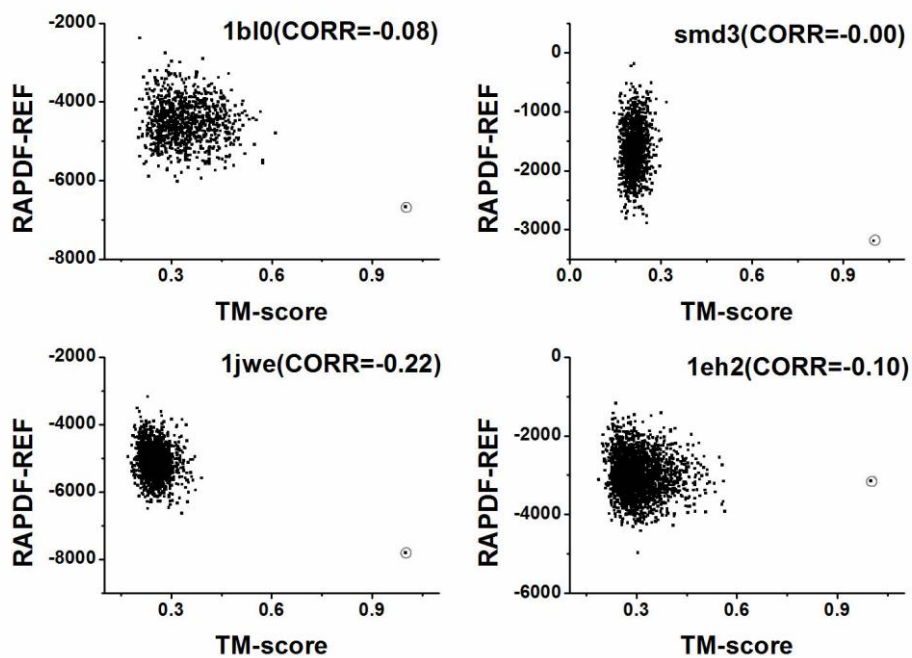
**Figure S7.** Dfire potentials versus TM-score for four representative targets (1b10, smd3, 1jwe and 1eh2) in the *fisa\_casp3* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



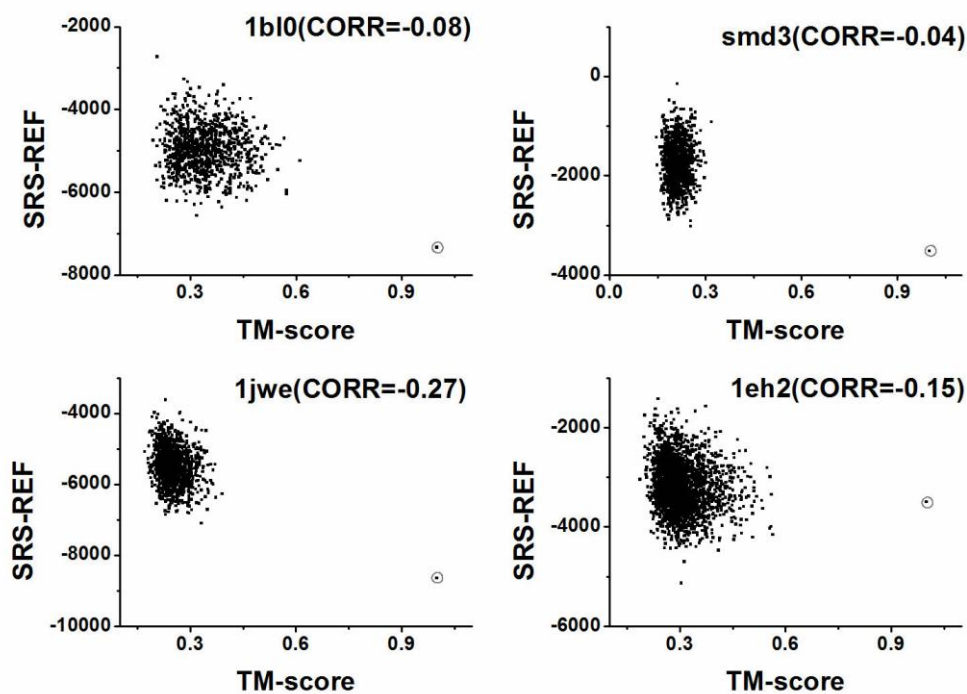
**Figure S8.** Dope potentials versus TM-score for four representative targets (1b10, smd3, 1jwe and 1eh2) in the *fisa\_casp3* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



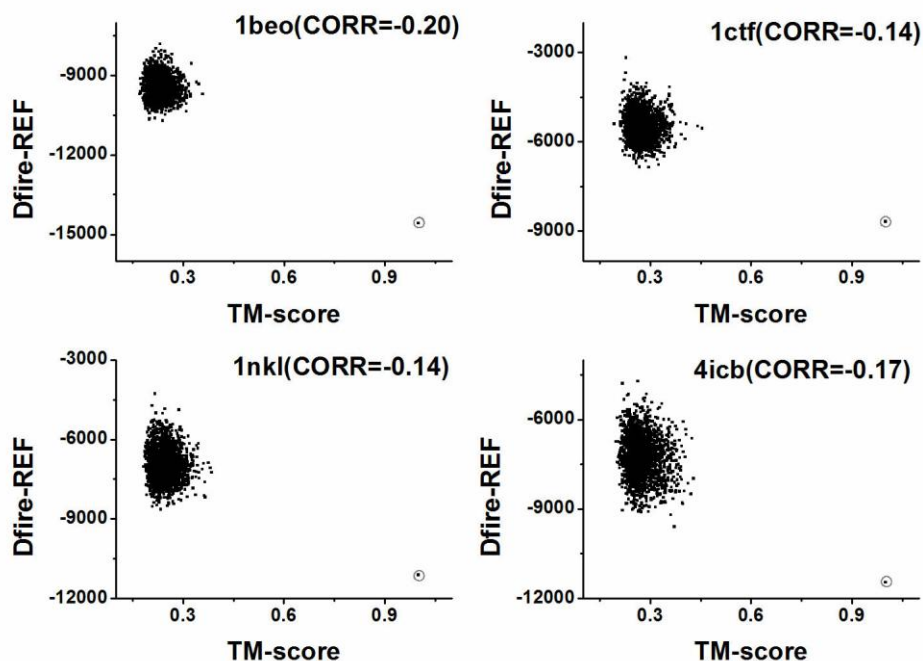
**Figure S9.** KBP potentials versus TM-score for four representative targets (1bl0, smd3, 1jwe and 1eh2) in the *fisa\_casp3* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



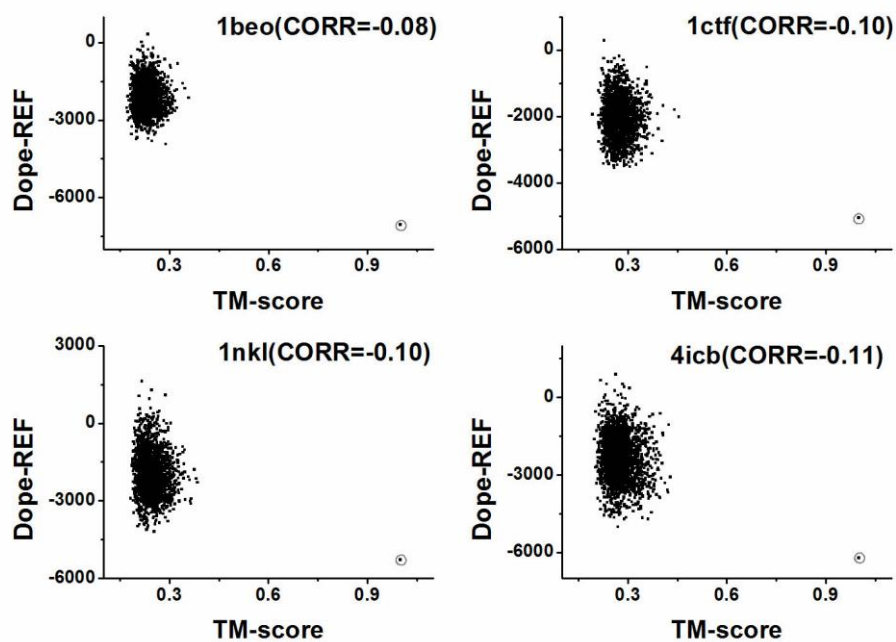
**Figure S10.** RAPDF potentials versus TM-score for four representative targets (1bl0, smd3, 1jwe and 1eh2) in the *fisa\_casp3* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



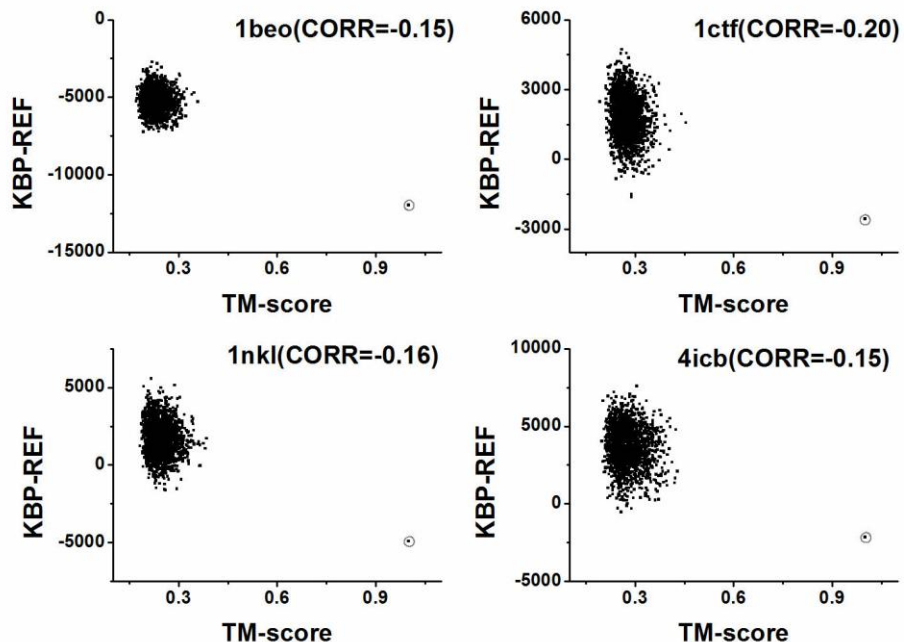
**Figure S11.** SRS potentials versus TM-score for four representative targets (1bl0, smd3, 1jwe and 1eh2) in the *fisa\_casp3* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



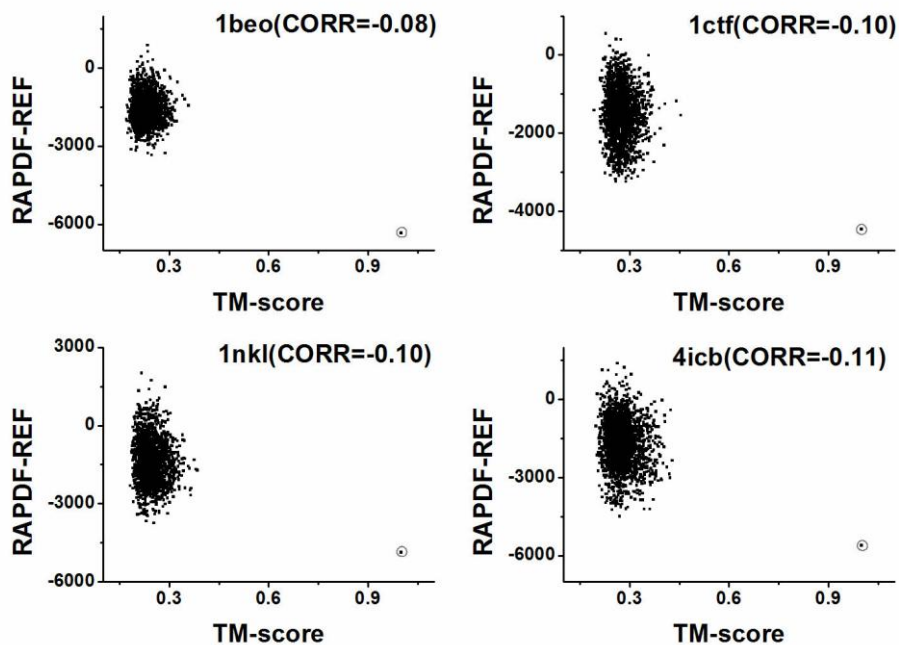
**Figure S12.** Dfire potentials versus TM-score for four representative targets (1beo, 1ctf, 1nkl and 4icb) in the *lattice\_ssf1* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



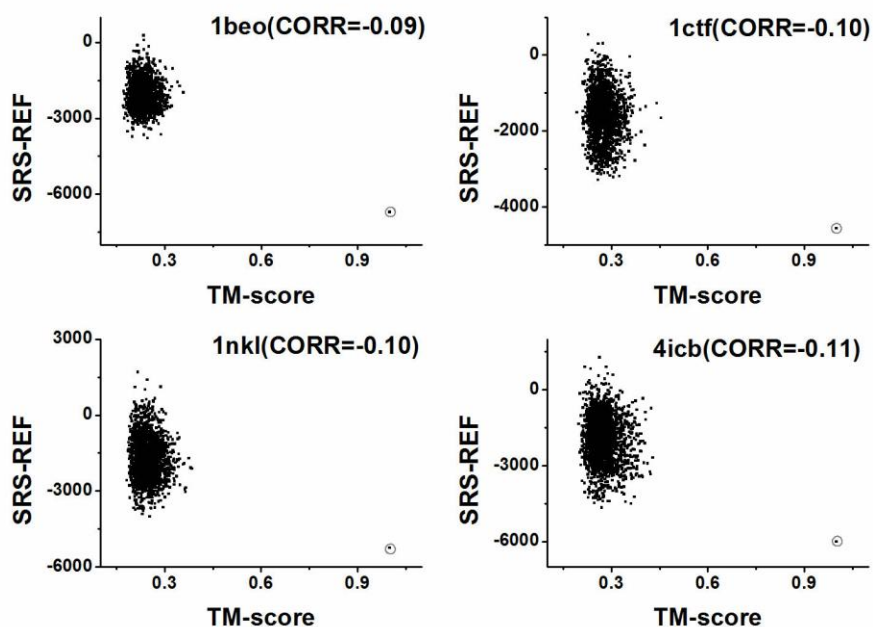
**Figure S13.** Dope potentials versus TM-score for four representative targets (1beo, 1ctf, 1nkl and 4icb) in the *lattice\_ssf* of the 'R' Us decoy set. The native structure is highlighted by the open circles.



**Figure S14.** KBP potentials versus TM-score for four representative targets (1beo, 1ctf, 1nkl and 4icb) in the *lattice\_ssf* of the 'R' Us decoy set. The native structure is highlighted by the open circles.

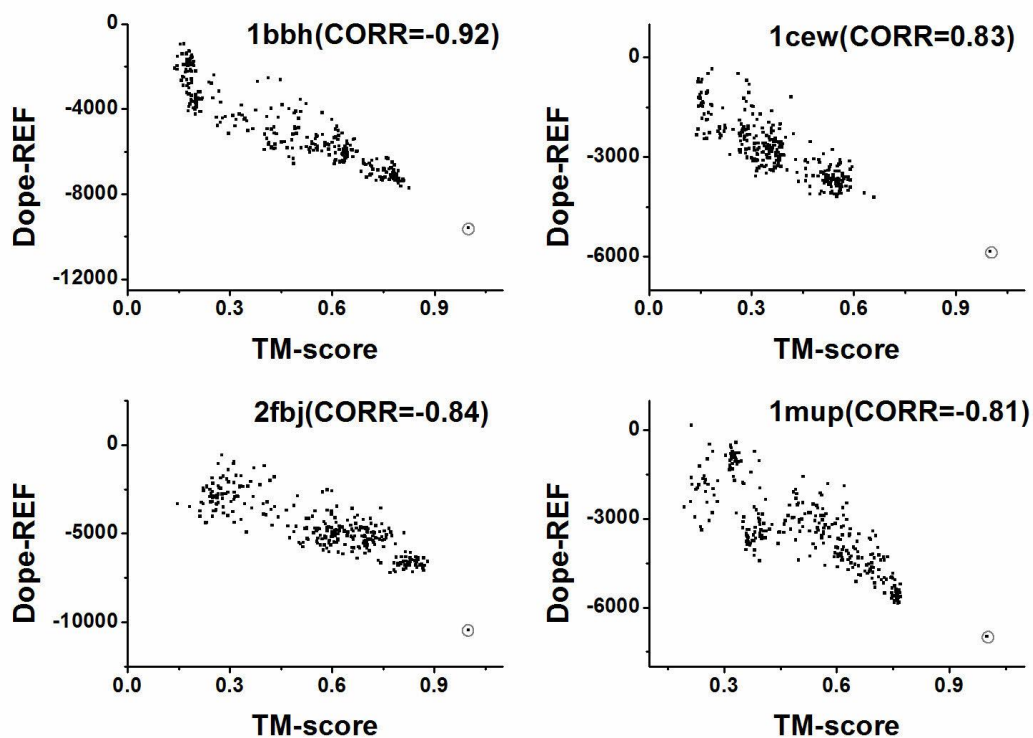


**Figure S15.** RAPDF potentials versus TM-score for four representative targets (1beo, 1ctf, 1nkl and 4icb) in the *lattice\_ssfit* of the 'R' Us decoy set. The native structure is highlighted by the open circles.

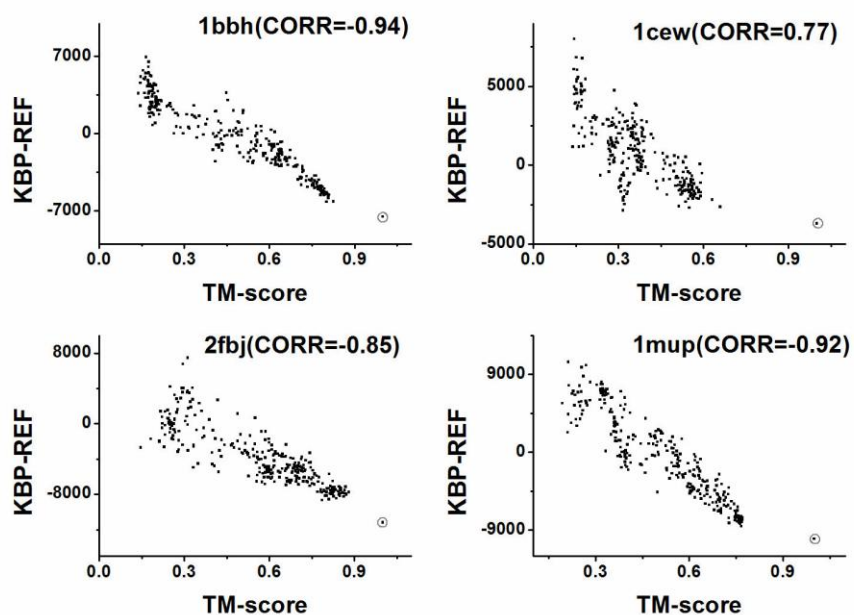


**Figure S16.** RAPDF potentials versus TM-score for four representative targets (1beo, 1ctf, 1nkl and 4icb) in the *lattice\_ssfit* of the 'R' Us decoy set. The native structure is highlighted by the open circles.

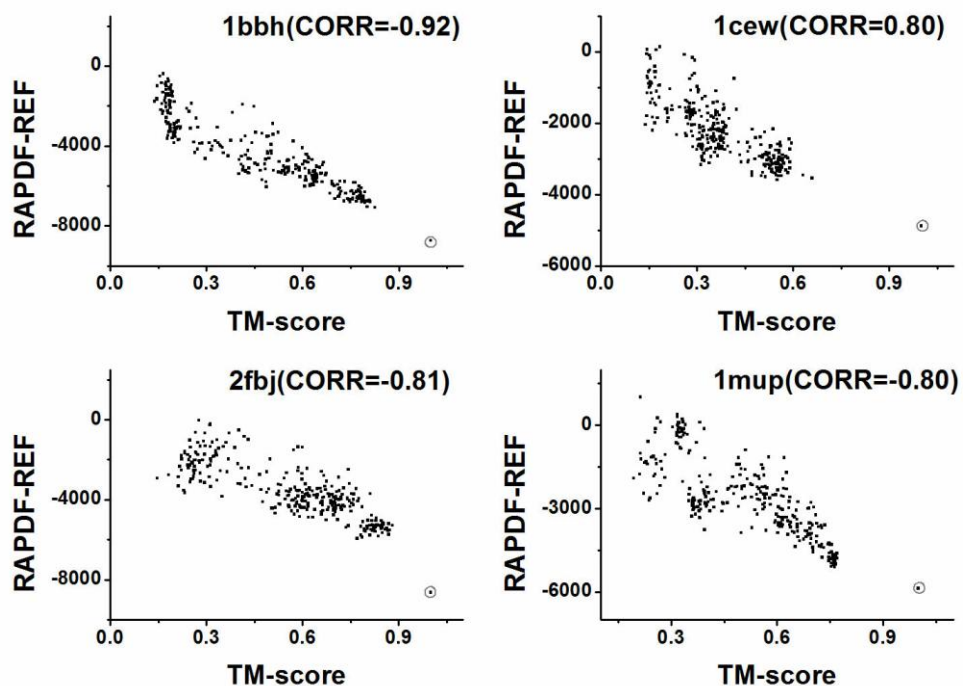




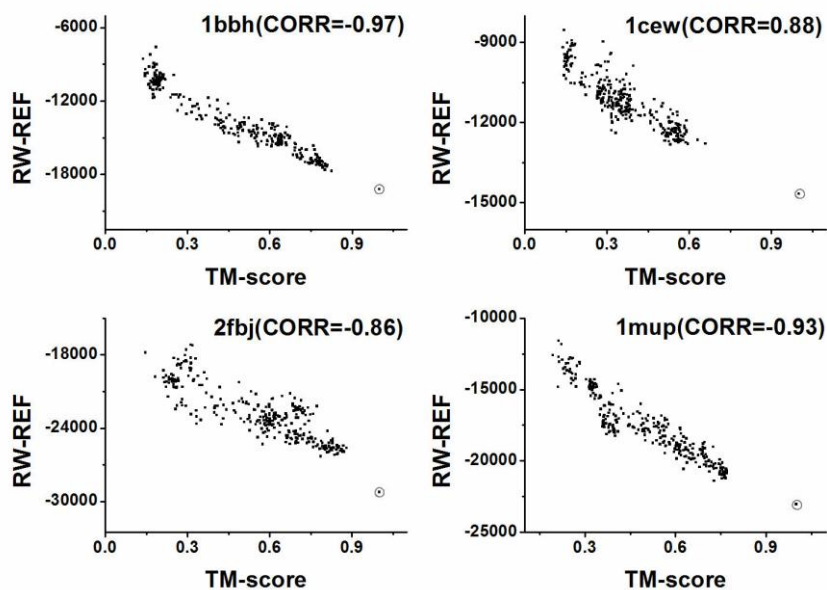
**Figure S17.** Dope potentials versus TM-score for four representative targets (1bbh, 1cew, 2fbj and 1mup) in the MOULDER decoy set. The native structure is highlighted by the open circles.



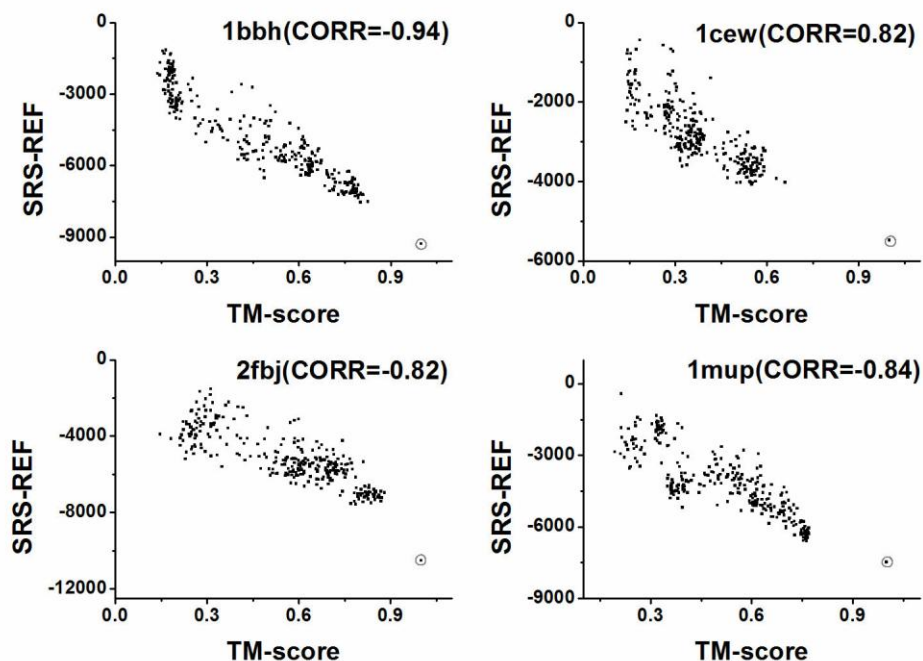
**Figure S18.** KBP potentials versus TM-score for four representative targets (1bbh, 1cew, 2fbj and 1mup) in the MOULDER decoy set. The native structure is highlighted by the open circles.



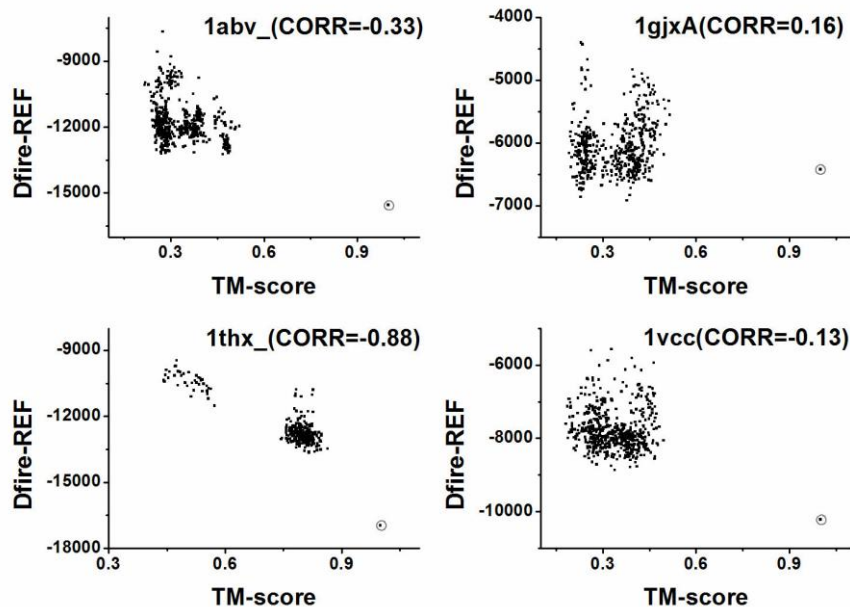
**Figure S19.** RAPDF potentials versus TM-score for four representative targets (1bbh, 1cew, 2fbj and 1mup) in the MOULDER decoy set. The native structure is highlighted by the open circles.



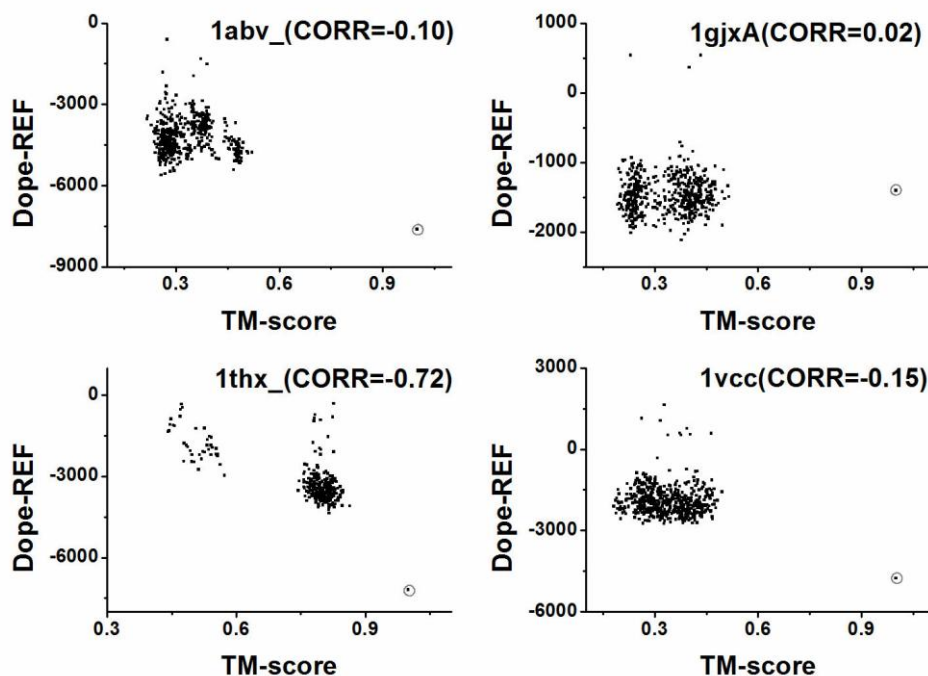
**Figure S20.** RW potentials versus TM-score for four representative targets (1bbh, 1cew, 2fbj and 1mup) in the MOULDER decoy set. The native structure is highlighted by the open circles.



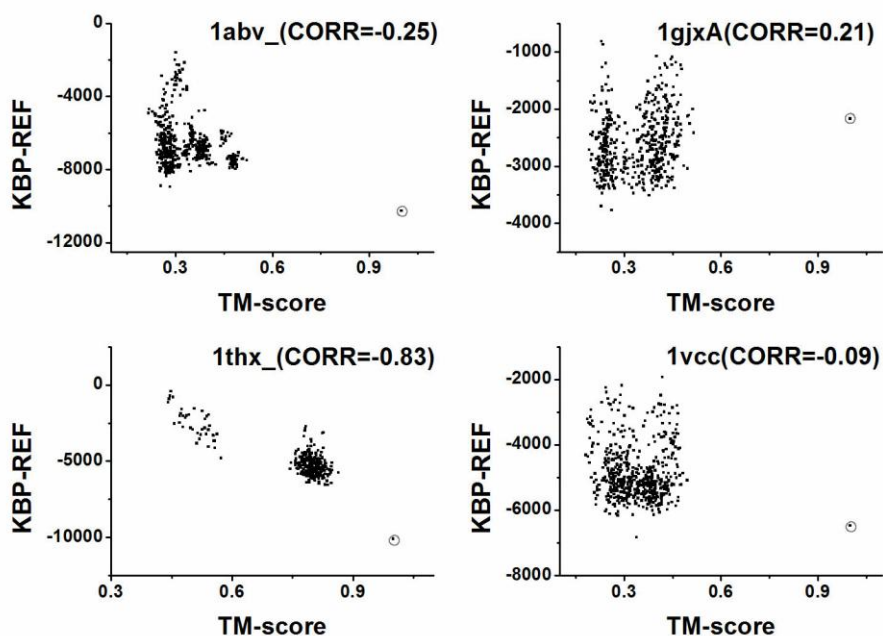
**Figure S21.** SRS potentials versus TM-score for four representative targets (1bbh, 1cew, 2fbj and 1mup) in the MOULDER decoy set. The native structure is highlighted by the open circles.



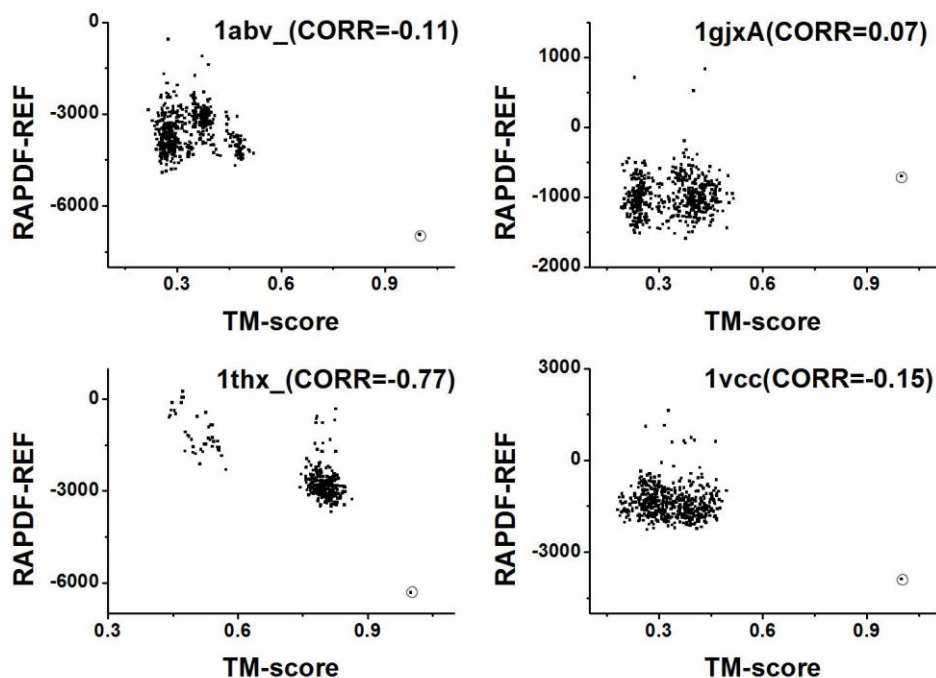
**Figure S22.** Dfire potentials versus TM-score for four representative targets (1abv\_, 1gjxA, 1thx\_ and 1vcc\_) in the I-TASSER decoy set. The native structure is highlighted by the open circles.



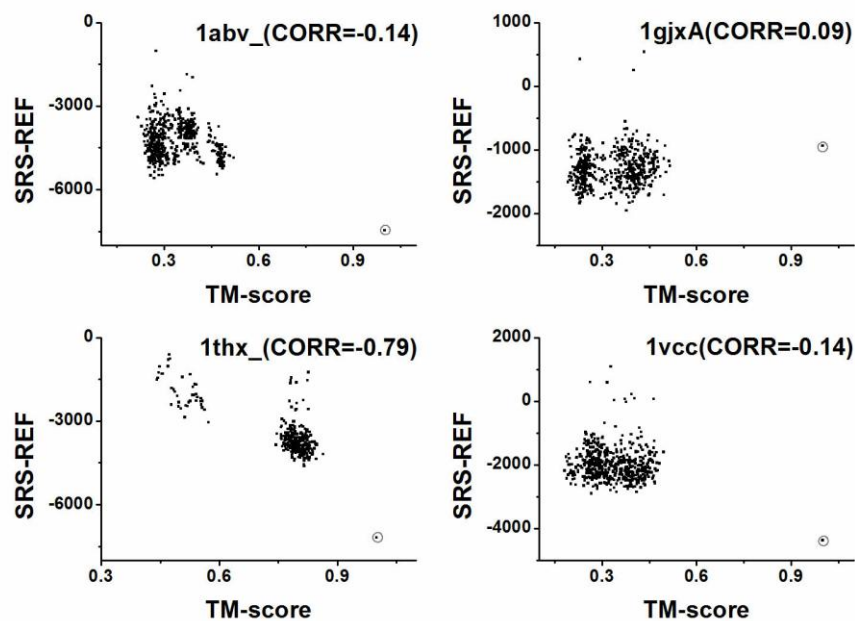
**Figure S23.** Dope potentials versus TM-score for four representative targets (1abv\_, 1gxA, 1thx\_ and 1vcc\_) in the I-TASSER decoy set. The native structure is highlighted by the open circles.



**Figure S24.** KBP potentials versus TM-score for four representative targets (1abv\_, 1gxA, 1thx\_ and 1vcc\_) in the I-TASSER decoy set. The native structure is highlighted by the open circles.



**Figure S25.** RAPDF potentials versus TM-score for four representative targets (1abv\_, 1gxA, 1thx\_ and 1vcc\_) in the I-TASSER decoy set. The native structure is highlighted by the open circles.



**Figure S26.** SRS potentials versus TM-score for four representative targets (1abv\_, 1gxA, 1thx\_ and 1vcc\_) in the I-TASSER decoy set. The native structure is highlighted by the open circles.