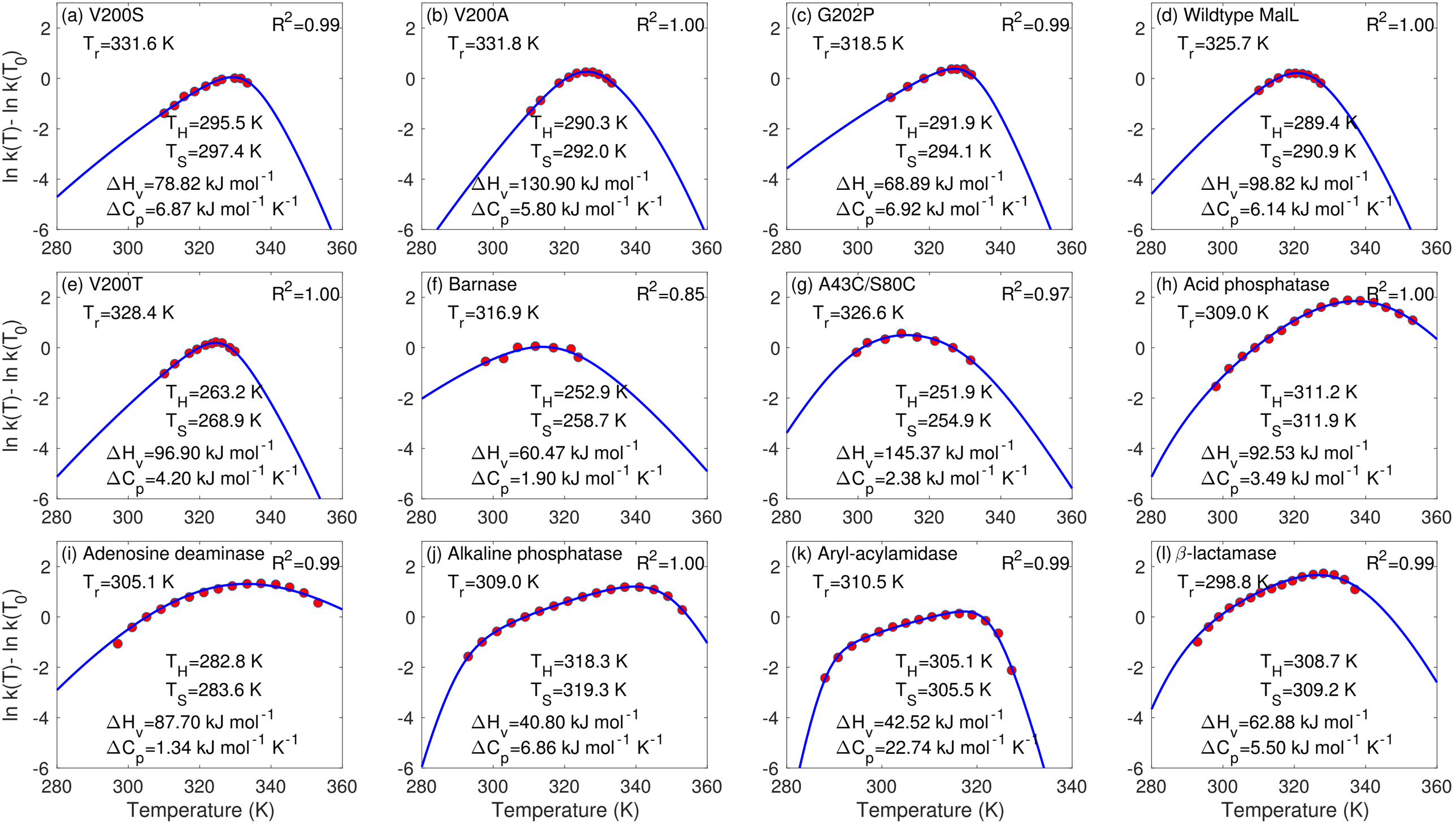
(a) V200S
R^2=0.99
T_r=331.6 K
T_H=295.5 K
T_S=297.4 K
ΔH_v=78.82 kJ mol^{-1}
ΔC_p=6.87 kJ mol^{-1} K^{-1}
(b) V200A
R^2=1.00
T_r=331.8 K
T_H=290.3 K
T_S=292.0 K
ΔH_v=130.90 kJ mol^{-1}
ΔC_p=5.80 kJ mol^{-1} K^{-1}
(c) G202P
R^2=0.99
T_r=318.5 K
T_H=291.9 K
T_S=294.1 K
ΔH_v=68.89 kJ mol^{-1}
ΔC_p=6.92 kJ mol^{-1} K^{-1}
(d) Wildtype MalL
R^2=1.00
T_r=325.7 K
T_H=289.4 K
T_S=290.9 K
ΔH_v=98.82 kJ mol^{-1}
ΔC_p=6.14 kJ mol^{-1} K^{-1}
(e) V200T
R^2=1.00
T_r=328.4 K
T_H=263.2 K
T_S=268.9 K
ΔH_v=96.90 kJ mol^{-1}
ΔC_p=4.20 kJ mol^{-1} K^{-1}
(f) Barnase
R^2=0.85
T_r=316.9 K
T_H=252.9 K
T_S=258.7 K
ΔH_v=60.47 kJ mol^{-1}
ΔC_p=1.90 kJ mol^{-1} K^{-1}
(g) A43C/S80C
R^2=0.97
T_r=326.6 K
T_H=251.9 K
T_S=254.9 K
ΔH_v=145.37 kJ mol^{-1}
ΔC_p=2.38 kJ mol^{-1} K^{-1}
(h) Acid phosphatase
R^2=1.00
T_r=309.0 K
T_H=311.2 K
T_S=311.9 K
ΔH_v=92.53 kJ mol^{-1}
ΔC_p=3.49 kJ mol^{-1} K^{-1}
(i) Adenosine deaminase
R^2=0.99
T_r=305.1 K
T_H=282.8 K
T_S=283.6 K
ΔH_v=87.70 kJ mol^{-1}
ΔC_p=1.34 kJ mol^{-1} K^{-1}
(j) Alkaline phosphatase
R^2=1.00
T_r=309.0 K
T_H=318.3 K
T_S=319.3 K
ΔH_v=40.80 kJ mol^{-1}
ΔC_p=6.86 kJ mol^{-1} K^{-1}
(k) Aryl-acylamidase
R^2=0.99
T_r=310.5 K
T_H=305.1 K
T_S=305.5 K
ΔH_v=42.52 kJ mol^{-1}
ΔC_p=22.74 kJ mol^{-1} K^{-1}
(l) β-lactamase
R^2=0.99
T_r=298.8 K
T_H=308.7 K
T_S=309.2 K
ΔH_v=62.88 kJ mol^{-1}
ΔC_p=5.50 kJ mol^{-1} K^{-1}
ln k(T)- ln k(T_0)
Temperature (K)