



**Figure S19.** Autoradiogram of 20% denaturing PAGE, showing the cleavage kinetics of 5'- $^{32}$ P-labelled target RNA (**14**) by RNase H1 in the native AON (**1**)/RNA (**14**), 15-DPPz AON (**7**) /RNA (**14**), 15-3T-DPPZ (**8**) /RNA (**14**), 15-3T-Cholest AON (**10**) /RNA (**14**) and 15-2C-Cholest AON (**11**) /RNA (**14**) hybrid duplexes. PDE-Ladder: snake venom PDE ladder. Conditions of cleavage reaction: RNA ( $0.077 \mu\text{M}$ ) and AONs ( $5 \mu\text{M}$ ) in buffer, containing 20 mM Tris-HCl (pH 8.0), 20 mM KCl, 10 mM  $\text{MgCl}_2$  and 0.1 mM DTT at 21 °C, 0.06 or 0.12 U of RNase H. Total reaction volume is 30  $\mu\text{l}$ . (See Materials and Methods section for full experimental details.)