Supplementary Material for

High pressure synthesis of late rare earth $R$FeAs(O,F) superconductors; $R$ = Tb and Dy.

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**Supplementary Figure 1** Observed (•) and calculated (−) x-ray diffraction profiles for DyFeAsO$_{0.9}$F$_{0.1}$ at room temperature. The upper set of tick marks refers to the minority phase, DyAs and the lower set to DyFeAsO$_{0.9}$F$_{0.1}$. Goodness of fit parameters of $\chi^2 = 1.76$, $R_{wp} = 2.33\%$, $R_p = 1.75\%$, for refinement of 24 variables.

**Supplementary Figure 2** Temperature dependence of the electrical resistivity of TbFeAs(O,F) and DyFeAs(O,F) measured in zero field. Inset: Expanded view of low temperatures, showing superconducting transitions.