Synthesis of an Estrogen Receptor Beta Agonist

**Significance:** The target tetrahydrofluorene is an estrogen receptor \( \beta \) agonist that is of interest for the treatment of symptoms associated with reduced estrogen levels in post-menopausal women. The large-scale synthesis depicted features a chiral auxiliary mediated dialkylation to construct the quaternary center in \( G \) with excellent stereocontrol. Note the intramolecular enolate alkylation \( F \rightarrow G \) in which phenoxide ion is the leaving group.