

Fig. S1 Sc K-edge k^2 -weighted EXAFS and Fourier transform data (magnitude and imaginary part) (solid) and fits (dotted) of [ScCl₃(Me₃-tacn)] solid (black) and with 3.5 mol. equivs. MeLi in THF (red).



Fig. S2 Sc K-edge k^2 -weighted EXAFS and Fourier transform data (magnitude and imaginary part) (black) and fits (red) for [ScCl₃(decyl-SNS)] with 3.5 mol. equivs. MeLi in THF.



Fig. S3 Sc K-edge k²-weighted EXAFS and Fourier transform data (magnitude and imaginary part) (solid) and fits (dotted) for [ScCl₃(decyl-SNS)] solution with 10 mol equiv. AlMe₃ (black), with further addition of 1 mol equivs. [Ph₃C][Al{OC(CF₃)₃}] (red), with further addition of 100 mol equivs. 1-hexene (green).