Supplementary Information

Synthesis of sumanenyl hafnocene complex

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Scheme S1. (a) Synthesis of 3b and (b) its crude $^1$H NMR spectrum (400 MHz, CD$_2$Cl$_2$).
**Figure S1.** Packing structure of Cp*(sumanenyl)HfCl₂ (4).
$^{13}$C NMR spectrum of 4 (100 MHz, CD$_2$Cl$_2$)

[Diagram of molecule 4]

Enlarged view
$^1$H NMR spectrum of Cp*(fluorenyl)HfCl$_2$ (400 MHz, CD$_2$Cl$_2$)
$^{13}$C NMR spectrum of Cp*(fluorenyl)HfCl$_2$ (100 MHz, CD$_2$Cl$_2$)

Enlarged view

X: parts per million, Carbon 13

S5
$^1$H NMR spectrum of 6 (400 MHz, CDCl$_3$)
Enlarged view of the $^1$H NMR spectrum of 6 (400 MHz, CDCl$_3$)
$^{13}$C NMR spectrum of 6 (100 MHz, CDCl$_3$)