	Alkylboron Reagent	Alkyl Electrophile	Conditions	Product(s) and Yield(s) (%)	Refs
 Plea	ase refer to the charts prec				
C <sub>5</sub>	BnQ 9-BBN 1.2 eq	TsQ OMe	Pd(OAc} (4 mol %), P(t-Bu)Me (16 mol %), NaOH (1.2 eq), dioxane, 50°, 48 h	BnO (60)	61
C <sub>6</sub>	<i>n</i> -C <sub>6</sub> H <sub>13</sub> ─9-BBN 1.2 eq	Br CN	Pd(OAc <u>}</u> (4 mol %), <b>L1</b> (5 mol %), K <sub>3</sub> PO <sub>4</sub> •H <sub>2</sub> O (1.2 eq), THF, rt, 24 h	<i>n</i> -C <sub>12</sub> H <sub>25</sub> −CN (62)	185
C <sub>11</sub>	1.2 eq	Br— <i>n-C</i> <sub>12</sub> H <sub>25</sub>	Pd(OAc) (4 mol %), <b>L1</b> (5 mol %), K <sub>3</sub> PO <sub>4</sub> •H <sub>2</sub> O (1.2 eq), THF, rt, 24 h	n-C <sub>18</sub> H <sub>38</sub> (93)	185
	<i>n</i> -G <sub>6</sub> H <sub>13</sub> —B(OH) <sub>2</sub> 1.5 eq	Br— <i>n-</i> C <sub>12</sub> H <sub>25</sub>	Pd(OAc) (5 mol %), P( <i>t</i> -Bu)Me (10 mol %), KO <i>t</i> -Bu (3 eq), <i>t</i> -amyl alcohol, rt, 24 h	n-C <sub>18</sub> H <sub>38</sub> (66)	186
	TESO 9-BBN 1.2 eq	TsO(+)6	Pd(OAc) (4 mol %), P(t-Bu)Me (16 mol %), NaOH (1.2 eq), dioxane, 50°, 48 h	TESO. (55)	61
	1.2 eq	TsO <sub>6</sub>	Pd(OAc) (4 mol %), P(t-Bu)Me (16 mol %) NaOH (1.2 eq), dioxane, 50°, 46 h	TESO 0 (67)	61

C<sub>7</sub>

BF<sub>3</sub>K

1.5 eq

Br SO<sub>2</sub>Ph

Pd(OAc) (5 mol %), SPhos (10 mol %), C§CO<sub>3</sub> (2 eq), toluene/water (4:1), 50°, 15 h

SO<sub>2</sub>Ph (60)

188

 $C_{10}$ 

*n*-C<sub>10</sub>H<sub>21</sub>—BF<sub>3</sub>K

2 eq

TsO PO(OEt)

Pd(OAc) (7 mol %), SPhos (15 mol %), C<sub>2</sub>CO<sub>3</sub> (2.5 eq), toluene/water (4:1), 60°, 20 h

-C<sub>10</sub>H<sub>21</sub> PO(OEt)

(99) 190

584

**L2**[PdCl(GH<sub>5</sub>)] (0.01 mol %), n-Oct 192 n-Oct─B(OH)₂ K<sub>2</sub>CO<sub>3</sub> (2 eq), xylene, (74)СНО 130°, 20 h СНО 2 eq  $C_9$ Bpin Pd(OAc) (5 mol %), Bpin **L3** (10 mol %), KOH (15 eq), Ph (88) er 92.0:8.0 67 Bpin dioxane/water (1:1), rt, 12 h 1.1 eq

587