

**Table 4. Time-dependent P-cluster maturation**

Line	Av1 <sup>†</sup>	Activity*				
		C <sub>2</sub> H <sub>4</sub> formation under C <sub>2</sub> H <sub>2</sub> /Ar	H <sub>2</sub> formation under Ar	NH <sub>3</sub> formation under N <sub>2</sub>	H <sub>2</sub> formation under N <sub>2</sub>	Average, %
1	Av1 <sup>ΔnifB</sup>	1,014 ± 29 (100)	998 ± 31 (100)	633 ± 6 (100)	223 ± 34 (100)	100
2	Av1 <sup>ΔnifZΔnifB (0)</sup>	510 ± 16 (50)	493 ± 19 (49)	326 ± 6 (52)	103 ± 3 (46)	49
3	Av1 <sup>ΔnifZΔnifB (15')</sup>	543 ± 32 (53)	504 ± 9 (51)	301 ± 22 (48)	145 ± 28 (65)	54
4	Av1 <sup>ΔnifZΔnifB (30')</sup>	685 ± 20 (68)	610 ± 49 (61)	383 ± 9 (61)	151 ± 19 (67)	64
5	Av1 <sup>ΔnifZΔnifB (45')</sup>	758 ± 27 (75)	914 ± 10 (92)	452 ± 30 (71)	190 ± 14 (85)	81
6	Av1 <sup>ΔnifZΔnifB (60')</sup>	812 ± 74 (80)	883 ± 14 (88)	509 ± 7 (80)	210 ± 11 (94)	86

Activities of C<sub>2</sub>H<sub>4</sub> formation under C<sub>2</sub>H<sub>2</sub>/Ar, H<sub>2</sub> formation under Ar, NH<sub>3</sub> formation under N<sub>2</sub>, and H<sub>2</sub> formation under N<sub>2</sub> are expressed as nmol per min per mg of protein. Percentages relative to Av1<sup>ΔnifB</sup> (line 1) are given in parentheses. Average activities are expressed as percentages only.

\*The lower detection limits were 0.01, 0.02, 0.001, and 0.02 nmol per min per mg of protein for C<sub>2</sub>H<sub>4</sub> formation under C<sub>2</sub>H<sub>2</sub>/Ar, H<sub>2</sub> formation under Ar, NH<sub>3</sub> formation under N<sub>2</sub>, and H<sub>2</sub> formation under N<sub>2</sub>, respectively.

<sup>†</sup>Av1 proteins (lines 2-6) are categorically designated Av1<sup>ΔnifZΔnifB (varied time)</sup> (Table 1).