

BtubA			BtubB		
Group	No. of motifs	P value	Group	No. of motifs	P value
<i>P. dejongeii</i>					
Tubulin	9 of 9	1.4 x e ⁻⁶²	Tubulin	9 of 9	1.9 x e ⁻⁷²
alpha tubulin	7 of 13	5.9 x e ⁻¹⁷	beta tubulin	8 of 13	4.2 x e ⁻²⁶
beta tubulin	6 of 13	1.4 x e ⁻¹⁴	epsilon tubulin	6 of 10	3.3 x e ⁻¹⁹
epsilon tubulin	4 of 10	1.2 x e ⁻¹⁵	alpha tubulin	5 of 13	2.5 x e ⁻¹⁴
delta tubulin	3 of 12	1.9 x e ⁻¹²	gamma tubulin	4 of 8	1.4 x e ⁻¹³
gamma tubulin	5 of 8	3.3 x e ⁻¹¹	FtsZ	3 of 6	1.7 x e ⁻¹⁰
FtsZ	2 of 6	8.3 x e ⁻⁶	delta tubulin	2 of 12	5.6 x e ⁻⁹
<i>P. vanneervenii</i>					
Tubulin	9 of 9	3.4 x e ⁻⁶¹	Tubulin	9 of 9	1.2 x e ⁻⁷²
beta tubulin	8 of 13	4.2 x e ⁻¹⁶	beta tubulin	8 of 13	3.9 x e ⁻²⁵
epsilon tubulin	4 of 10	2.0 x e ⁻¹⁴	epsilon tubulin	6 of 10	3.4 x e ⁻²⁰
alpha tubulin	6 of 13	6.4 x e ⁻¹⁴	gamma tubulin	5 of 8	1.8 x e ⁻¹⁴
delta tubulin	3 of 12	1.2 x e ⁻¹³	alpha tubulin	4 of 13	2.2 x e ⁻¹¹
gamma tubulin	5 of 8	1.2 x e ⁻¹¹	delta tubulin	2 of 12	5.6 x e ⁻¹⁰
FtsZ	2 of 6	1.4 x e ⁻⁶	FtsZ	2 of 6	1.5 x e ⁻⁸
<i>P. debontii</i> operon 1					
Tubulin	9 of 9	3.5 x e ⁻⁶¹	Tubulin	9 of 9	1.6 x e ⁻⁷²
epsilon tubulin	4 of 10	2.5 x e ⁻¹⁵	beta tubulin	8 of 13	4.2 x e ⁻²⁶
beta tubulin	6 of 13	6.3 x e ⁻¹⁵	epsilon tubulin	6 of 10	1.6 x e ⁻²⁰
alpha tubulin	7 of 13	6.6 x e ⁻¹⁵	gamma tubulin	5 of 8	1.8 x e ⁻¹³
delta tubulin	4 of 12	1.2 x e ⁻¹³	alpha tubulin	5 of 13	9.3 x e ⁻¹³
gamma tubulin	5 of 8	6.5 x e ⁻¹¹	delta tubulin	2 of 12	9.6 x e ⁻¹⁰
FtsZ	2 of 6	8.2 x e ⁻⁶	FtsZ	2 of 6	4.1 x e ⁻⁹
<i>P. debontii</i> operon 2					
Tubulin	9 of 9	4.5 x e ⁻⁵⁸	Tubulin	9 of 9	2.2 x e ⁻⁷³
beta tubulin	7 of 13	1.5 x e ⁻¹⁵	beta tubulin	7 of 13	6.3 x e ⁻²⁴
epsilon tubulin	4 of 10	1.8 x e ⁻¹⁵	epsilon tubulin	6 of 10	2.6 x e ⁻²⁰
alpha tubulin	5 of 13	1.4 x e ⁻¹⁴	gamma tubulin	5 of 8	5.1 x e ⁻¹⁴
gamma tubulin	4 of 8	1.2 x e ⁻⁷	alpha tubulin	5 of 13	2.3 x e ⁻¹²
FtsZ	2 of 6	8.3 x e ⁻⁶	FtsZ	3 of 6	1.4 x e ⁻¹⁰
delta tubulin	2 of 12	1.5 x e ⁻⁵	delta tubulin	2 of 12	4.1 x e ⁻¹⁰

Table S1. BtubA and BtubB protein motif search.