

Table S4. Intergenic spacers (IGS) and overlapping sequence (OS) between different genes in *A. assamensis* with respect to the selected Bombycoid species.

Spacer	<i>A. assamensis</i>	<i>S. ricini</i>	<i>A. pernyi</i>	<i>A. yamamai</i>	<i>B. mandarina</i>	<i>B. mori</i>	<i>M. sexta</i>
<i>tRNA^{Met} - tRNA^{Ile}</i>	1	1	9	9	-2	-2	10
<i>tRNA^{Ile} - tRNA^{Gln}</i>	-3	-3	-3	-3	-3	-3	-3
<i>tRNA^{Gln} - nad2</i>	50	54	56	53	48	47	54
<i>nad2 - tRNA^{Trp}</i>	7	9	8	8	5	5	0
<i>tRNA^{Trp} - tRNA^{Cys}</i>	-8	-8	-8	-8	-8	-8	-8
<i>tRNA^{Cys} - tRNA^{Tyr}</i>	4	0	19	10	6	6	10
<i>tRNA^{Tyr} - cox1</i>	6	0	2	2	17	15	4
<i>cox1 - tRNA^{Leu2}</i>	0	0	0	-5	0	0	0
<i>tRNA^{Leu2} - cox2</i>	0	0	0	0	0	0	0
<i>cox2 - tRNA^{Lys}</i>	0	0	0	0	0	0	0
<i>tRNA^{Lys} - tRNA^{Asp}</i>	17	33	23	16	-1	-1	21
<i>tRNA^{Asp} - atp8</i>	0	0	0	0	0	0	0
<i>atp8 - atp6</i>	-7	-7	-7	-7	-7	-7	-7
<i>atp6 - cox3</i>	-1	-1	0	-1	12	14	18
<i>cox3 - tRNA^{Gly}</i>	2	2	2	2	2	2	6
<i>tRNA^{Gly} - nad3</i>	-3	-3	0	-3	3	3	0
<i>nad3 - tRNA^{Ala}</i>	-1	-1	0	-2	53	54	20
<i>tRNA^{Ala} - tRNA^{Arg}</i>	0	24	-1	-1	50	31	1
<i>tRNA^{Arg} - tRNA^{Asn}</i>	0	26	0	0	0	2	50
<i>tRNA^{Asn} - tRNA^{Ser1}</i>	2	13	1	2	0	1	3
<i>tRNA^{Ser1} - tRNA^{Glu}</i>	0	3	1	1	10	17	0
<i>tRNA^{Glu} - tRNA^{Phe}</i>	11	-2	10	6	-1	-1	-2
<i>tRNA^{Phe} - nad5</i>	0	0	0	0	4	4	0
<i>nad5 - tRNA^{His}</i>	0	-3	0	-3	16	21	12
<i>tRNA^{His} - nad4</i>	4	1	9	12	59	56	0
<i>nad4 - nad4l</i>	1	3	5	3	-1	-1	84
<i>nad4l - tRNA^{Thr}</i>	7	12	7	5	4	4	13
<i>tRNA^{Thr} - tRNA^{Pro}</i>	0	0	0	0	-1	0	-1
<i>tRNA^{Pro} - nad6</i>	2	2	2	2	1	2	1
<i>nad6 - cytb</i>	2	7	2	-1	55	49	17
<i>cytb - tRNA^{Ser2}</i>	31	5	25	24	-1	3	21
<i>tRNA^{Ser2} - nad1</i>	23	24	19	24	25	24	31
<i>nad1 - tRNA^{Leu1}</i>	1	2	2	1	-6	-6	0
<i>tRNA^{Leu1} - rrnL</i>	0	0	0	0	33	0	0
<i>rrnL - tRNA^{Val}</i>	0	0	0	0	0	-1	0
<i>tRNA^{Val} - srRNA</i>	0	0	0	0	0	0	0
<i>rrnS-control region</i>	0	0	0	0	0	0	0
<i>control region-tRNA^{Met}</i>	0	0	0	0	0	0	0
IGS regions	17	17	18	17	18	20	17
Total IGS	171	221	202	180	403	360	376

basepairs							
OS regions	6	8	4	10	10	9	5
Total OS basepairs	23	28	19	34	31	30	21