

System	Subunit	$\beta$ -sheet	$\alpha$ -helix	Turn	Coil
$\alpha$ Syn	S1	46.33 $\pm$ 0.50	0.63 $\pm$ 0.49	0.73 $\pm$ 0.33	52.29 $\pm$ 0.72
	S2	54.89 $\pm$ 0.46	0.15 $\pm$ 0.13	1.11 $\pm$ 0.46	43.83 $\pm$ 0.75
	S3	56.24 $\pm$ 0.76	0.06 $\pm$ 0.06	0.46 $\pm$ 0.32	43.22 $\pm$ 1.06
	S4	56.28 $\pm$ 0.88	0.01 $\pm$ 0.01	0.52 $\pm$ 0.17	43.17 $\pm$ 0.81
	S5	52.70 $\pm$ 0.72	0.22 $\pm$ 0.13	0.78 $\pm$ 0.29	46.28 $\pm$ 1.09
	S6	42.78 $\pm$ 2.00	0.45 $\pm$ 0.26	3.63 $\pm$ 0.61	53.12 $\pm$ 2.24
	<b>S1-S6*</b>	<b>51.54 <math>\pm</math> 0.68</b>	<b>0.25 <math>\pm</math> 0.08</b>	<b>1.21 <math>\pm</math> 0.14</b>	<b>46.98 <math>\pm</math> 0.83</b>
$\alpha$ Syn:M30	S1	42.01 $\pm$ 1.73	1.85 $\pm$ 0.82	1.39 $\pm$ 0.62	54.74 $\pm$ 0.92
	S2	52.52 $\pm$ 1.21	0.00 $\pm$ 0.00	1.01 $\pm$ 0.45	46.46 $\pm$ 1.63
	S3	54.30 $\pm$ 1.19	0.00 $\pm$ 0.00	0.61 $\pm$ 0.27	45.07 $\pm$ 0.99
	S4	54.72 $\pm$ 1.43	0.00 $\pm$ 0.00	1.10 $\pm$ 0.49	44.17 $\pm$ 2.04
	S5	52.33 $\pm$ 1.07	0.55 $\pm$ 0.24	0.94 $\pm$ 0.42	46.16 $\pm$ 1.74
	S6	40.46 $\pm$ 1.16	0.95 $\pm$ 0.42	2.19 $\pm$ 0.97	56.38 $\pm$ 1.78
	<b>S1-S6*</b>	<b>49.39 <math>\pm</math> 1.10</b>	<b>0.55 <math>\pm</math> 0.08</b>	<b>1.21 <math>\pm</math> 0.39</b>	<b>48.83 <math>\pm</math> 1.25</b>
* Average secondary structure of $\alpha$ Syn and $\alpha$ Syn:M30 fibril (%) $\pm$ SEM					

**Supplementary Table S1:** Average secondary structure content (%)  $\pm$  SEM at each subunit for  $\alpha$ Syn and  $\alpha$ Syn:M30 fibril.