

Electronic supplementary information

Table S1. Results from SVD analysis of the CD spectra of Tel22 modified sequences on changing temperature

Singular values	Autocorrelation		^a RV
	U Matrix	V Matrix	
Tel22-H5			
195.284	0.9753	0.9978	0.9784
27.166	0.9408	0.9956	0.0189
8.420	0.8855	0.9783	0.0018
3.961	0.5155	0.9884	0.0004
2.754	0.0078	0.9931	0.0002
1.7946	-0.1776	0.9502	0.0001
Tel22-H6			
276.098	0.9719	0.9975	0.9807
37.242	0.9519	0.9914	0.0178
7.914	0.8101	0.9812	0.0008
5.296	0.7940	0.9901	0.0004
3.146	-0.1252	0.9965	0.0001
2.981	-0.1454	0.9404	0.0001
Tel22-H11			
145.714	0.9747	0.9971	0.9796
18.646	0.9183	0.9983	0.0160
8.094	0.8286	0.9691	0.0030
3.765	0.2540	0.9734	0.0007
1.897	0.0993	0.9932	0.0002
1.8585	0.0051	0.9843	0.0002
Tel22-H12			
354.462	0.9776	0.9976	0.9809
45.787	0.9538	0.9930	0.0164
17.166	0.9339	0.9809	0.0023
5.840	0.6483	0.9806	0.0003
2.681	-0.3472	0.9908	0.0001
1.979	0.4487	0.9779	0.000
Tel22-H17			
169.753	0.9679	0.9966	0.9747
26.499	0.9476	0.9915	0.0238
6.238	0.7311	0.9968	0.0006
3.966	0.2994	0.9555	0.0005
1.858	0.3087	0.99877	0.0001
1.445	-0.0384	0.9850	0.0001
Tel22-H18			
327.073	0.9775	0.9975	0.98390
38.342	0.9546	0.9912	0.0135
14.657	0.8880	0.9781	0.0020
6.638	0.5031	0.9906	0.0004
2.913	-0.2192	0.9913	0.0001
1.935	0.0764	0.9463	0.0000

^a Relative variance of each singular values

Table S2. Results from SVD analysis of the CD spectra of Tel26 modified sequences on changing temperature

Singular values	Autocorrelation		^a RV
	U Matrix	V Matrix	
Tel26-H7			
276.776	0.9677	0.9962	0.9763
41.0312	0.9562	0.9931	0.0215
10.293	0.8093	0.9976	0.0014
6.218	0.5993	0.9635	0.0005
3.195	-0.0796	0.8567	0.0001
2.582	0.3410	0.9129	0.0001
Tel26-H8			
259.205	0.9703	0.9965	0.9799
39.839	0.9635	0.9912	0.0160
12.187	0.8724	0.9958	0.0019
7.268	0.6422	0.9639	0.0012
2.9373	-0.0550	0.9961	0.0003
1.651	-0.0080	0.9453	0.0002
Tel26-H13			
112.114	0.9703	0.9956	0.9799
14.326	0.9323	0.9929	0.0160
4.954	0.6042	0.9712	0.0019
3.847	0.4074	0.9883	0.0012
2.103	0.1279	0.9938	0.0003
1.532	0.0811	0.9536	0.0002
Tel26-H14			
226.768	0.9688	0.9976	0.9765
33.248	0.9589	0.9956	0.0210
9.219	0.8589	0.9965	0.0016
5.326	0.6850	0.9605	0.0005
2.268	-0.2628	0.9954	0.0001
2.115	-0.2300	0.9682	0.0001
Tel26-H19			
211.877	0.9688	0.9976	0.9765
33.248	0.9589	0.9956	0.0210
9.219	0.8589	0.9965	0.0016
5.326	0.6850	0.9605	0.0005
2.268	-0.2628	0.9954	0.0001
2.115	-0.2300	0.9682	0.0001
Tel26-H20			
181.275	0.9687	0.9967	0.9813
23.118	0.9289	0.9911	0.0160
7.277	0.6132	0.9959	0.0016
4.854	0.5999	0.9619	0.0007
2.209	0.0546	0.9948	0.0001
1.561	-0.0994	0.9927	0.0001

variance of each singular values

^a Relative

Table S3. Results from SVD analysis of the CD spectra of wtTel22 and wtTel26 on changing temperature

wtTel22 and wtTel26 on changing temperature			
Singular values	Autocorrelation		^a RV
	U Matrix	V Matrix	
wtTel22			
284.366	0.9724	0.9971	0.9780
38.989	0.9302	0.9935	0.0184
12.418	0.6988	0.9784	0.0019
7.943	0.6518	0.9952	0.0008
5.881	-0.0092	0.9951	0.0004
4.786	-0.0808	0.9633	0.0003
2.499	-0.0012	0.9656	0.0001
2.0283	0.0012	0.9856	0.0000
wtTel26			
173.425	0.9654	0.9968	0.9567
35.313	0.9523	0.9974	0.0397
8.490	0.8413	0.9965	0.0023
4.677	0.4407	0.9636	0.0007
3.173	0.1972	0.9515	0.0003
1.690	0.0645	0.9829	0.0001
1.552	-0.2128	0.9829	0.0001
1.284	-0.1447	0.9846	0.0001

a

^aRelative variance of each singular values

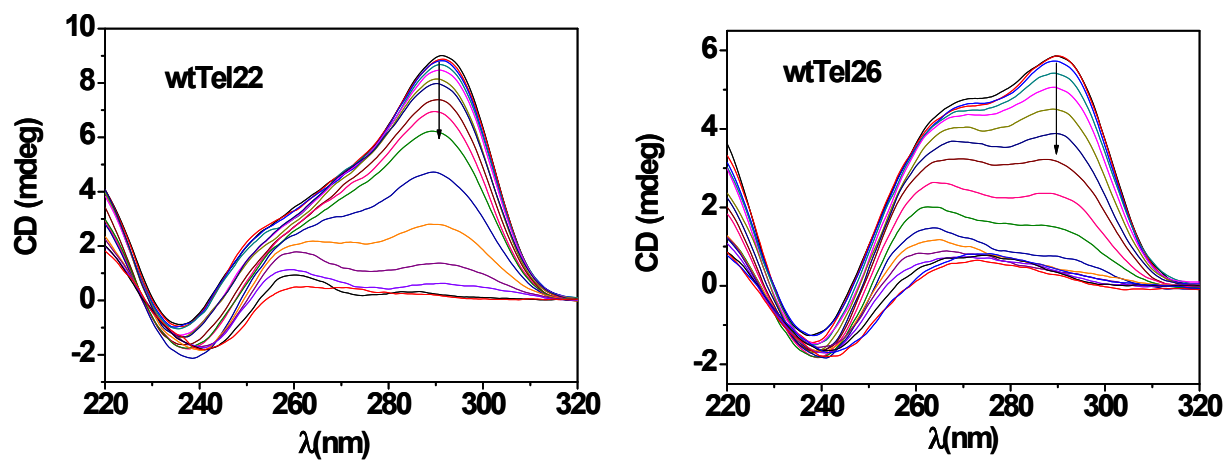


Figure S1. CD spectra of wtTel22 and wtTel26 recorded in the range 20-95 °C. The black arrows indicate the direction of the increasing temperature. CD spectra are shown each 5 °C.

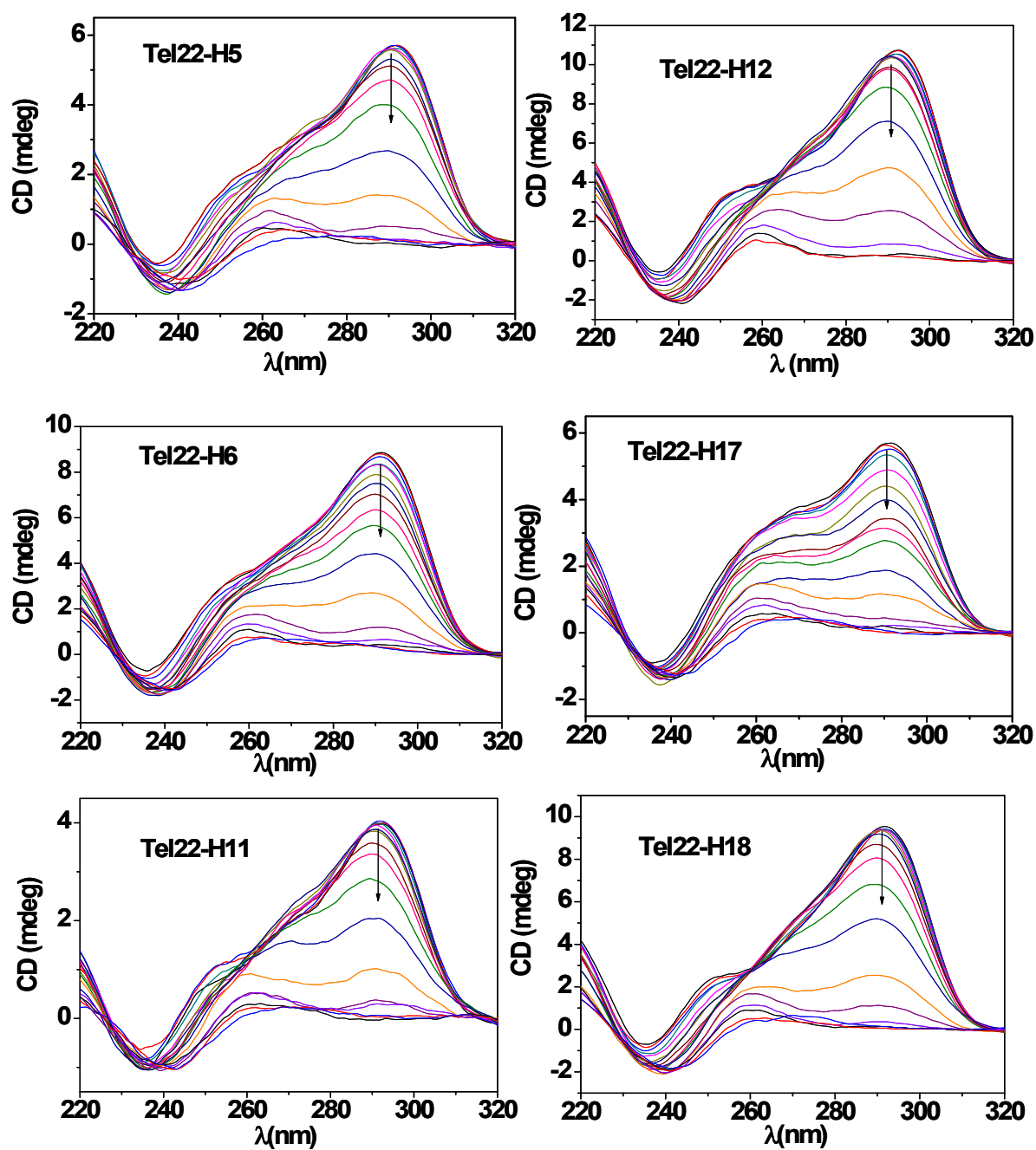


Figure S2. CD spectra of Tel22 modified sequences recorded in the range 20-95 °C. The black arrows indicate the direction of the increasing temperature. CD spectra are shown each 5 °C.

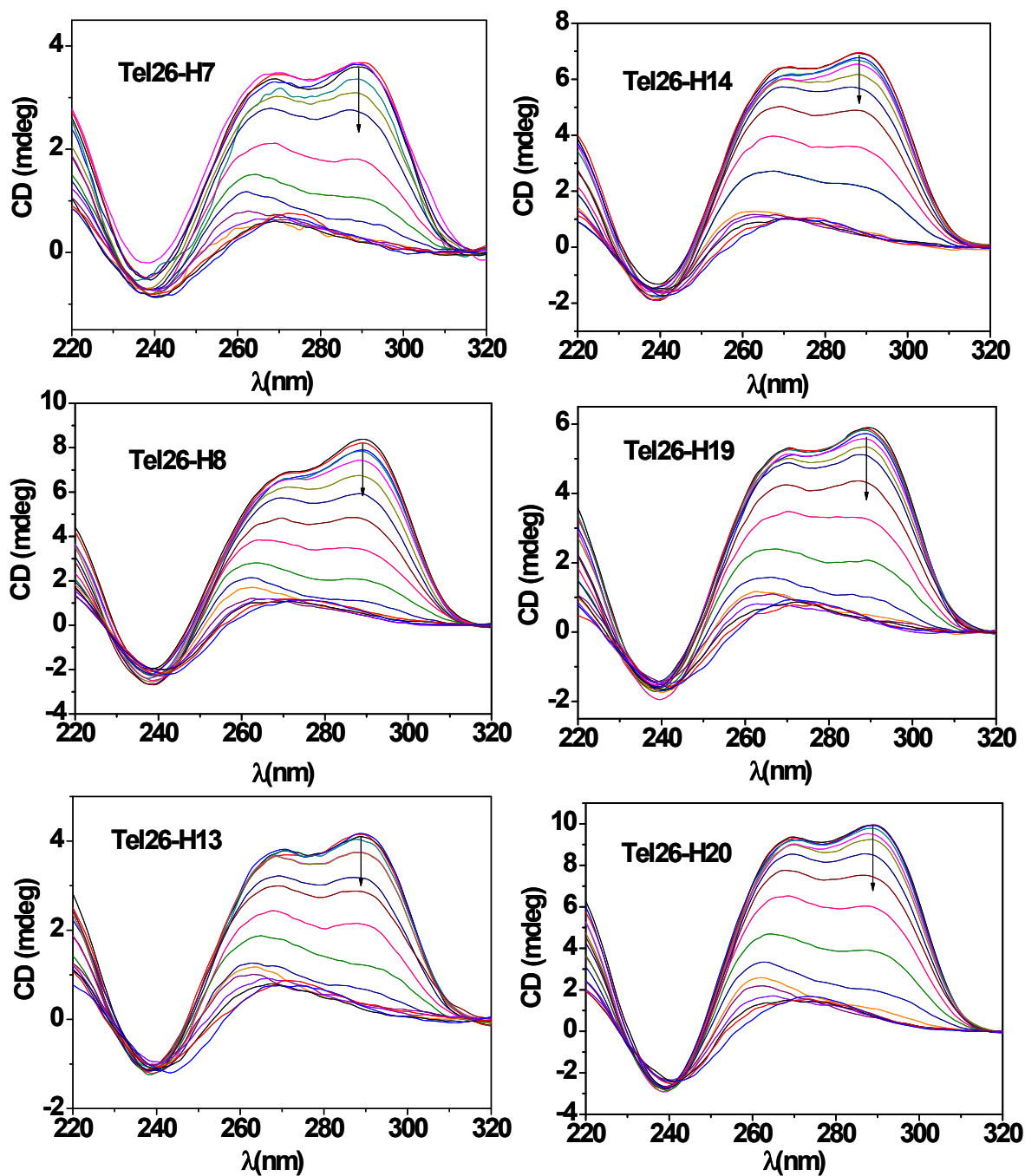


Figure S3. CD spectra of the Tel26 modified sequences recorded in the range 20-95 °C. The black arrows indicate the direction of the increasing temperature. CD spectra are shown each 5 °C.