

Table S2. Number of paths identified for each perturbation in three different ending scenarios. For subunit B to subunit B, each perturbation has a path that includes the β 1- β 2 loop, but only 4 of the 9 perturbations produce a path that involves pre-TM1. For subunit B to subunit A, all paths exclusively involve the β 1- β 2 loop. For subunit B to subunit C, paths involving the β 1- β 2 loop and pre-TM1 are observed with a slight preference for pre-TM1.

	β 1- β 2 Loop	Pre-TM1
Subunit B to subunit B		
D91	10	0
E177	2	8
D178	2	8
N152	10	0
D153	10	0
D154	10	0
F174	8	2
L176	2	8
K183	10	0
	71%	29%
Subunit B to subunit A		
D91	10	0
E177	10	0
D178	10	0
N152	10	0
D153	10	0
D154	10	0
F174	10	0
L176	10	0
K183	10	0
	100%	0%
Subunit B to subunit C		
D91	10	0
E177	2	8
D178	1	9
N152	3	7
D153	3	7
D154	3	7
F174	0	10
L176	2	8
K183	0	10
	27%	73%
Overall	66%	34%