

A

Rotation angle, $N \times 360^\circ/7$	Cyclic permutations of six subunits in the t state and one subunit in the r state						N_{same}	
0	r	t	t	t	t	t	t	7
1	t	r	t	t	t	t	t	5
2	t	t	r	t	t	t	t	5
3	t	t	t	r	t	t	t	5
4	t	t	t	t	r	t	t	5
5	t	t	t	t	t	r	t	5
6	t	t	t	t	t	t	r	5
7	r	t	t	t	t	t	t	7

B

Rotation angle, $N \times 360^\circ/7$	Cyclic permutations of five subunits in the t state and two subunits in the r state						N_{same}	
0	r	r	t	t	t	t	t	7
1	t	r	r	t	t	t	t	5
2	t	t	r	r	t	t	t	3
3	t	t	t	r	r	t	t	3
4	t	t	t	t	r	r	t	3
5	t	t	t	t	t	r	r	3
6	r	t	t	t	t	t	r	5
7	r	r	t	t	t	t	t	7

C

Rotation angle, $N \times 360^\circ/7$	Cyclic permutations of four subunits in the t state and three subunits in the r state						N_{same}	
0	r	r	r	t	t	t	t	7
1	t	r	r	r	t	t	t	5
2	t	t	r	r	r	t	t	3
3	t	t	t	r	r	r	t	1
4	t	t	t	t	r	r	r	1
5	r	t	t	t	t	r	r	3
6	r	r	t	t	t	t	r	5
7	r	r	r	t	t	t	t	7