

<i>IDS</i>	structural regions	WT	MU	dbMU
<i>S1</i>	JM-P (547-552)	549, 551 (547-554)	550 (547-553)	549 (547-552)
<i>S2</i>	JM-S (560-570)	565 (561-569)	564, 566 (561-570)	564, 566 (561-569)
<i>S3</i>	JM-Z (571-581)	577, 579 (574-581)	575 (571-577)	574, 579 (572-581)
<i>S4</i>	loop I (610-616)	614, 616 (588, 609-618)	614 (588,609-618)	613, 615 (588,608-618)
<i>S5</i>	C-loop-1 (626-647)	628, 631 (626-633)	627,631 (598-601; 625-635)	628 (626-631)
<i>S6</i>	loop II (661-666)	664 (585-587; 661-666)	663, 665 (586-587; 661-666)	663 (586-587; 661-665)
<i>S7</i>	KID (685-694/753-761)	691, 693, 753, 759 (688-694; 753-762)	693, 753, 758 (684; 687; 690-694; 753-763)	692, 694, 756 (687-694; 753-762)
<i>S8</i>	A-loop (810-835)	826, 828 (824-831)	819, 828 (816-832)	817, 819, 827, 829 (814-821) / (824- 831)
<i>S9</i>	G-helix (865-885)	872, 877 (870-882)	872, 874, 877 (870-883)	877, 884 (874-887)
<i>S10</i>	C-tail (930-935)	931 (926-935)	930 (926-935)	929, 931 (925-935)

**Table S1.**