

**Table S6: Average number of deuterons incorporated in Ssa1-NBD, and in Ssa1-NBD or Ssa1-His<sub>10</sub> in the presence of the yeast nucleotide exchange factors Sse1, Snl1-ΔN, and Fes1.**

PEPTIDE		AVERAGE NUMBER OF DEUTERONS INCORPORATED AFTER 10 s HX									
Start	End	Mass (exp) [Da]	DATASET 1					DATASET 2			
			PROTEIN: Ssa1-NBD NEF: -	Ssa1-NBD Complex with Sse1-strepll	Ssa1-His10 Complex with Sse1 -strepll	Ssa1-NBD + Snl1-DN	Ssa1-NBD + Fes1	Ssa1-NBD -	Ssa1-His10 Complex with Sse1 -strepll	Ssa1-NBD + Snl1-DN	Ssa1-NBD + Fes1
1	8	819.4	2.3	2.2	N.D.	2.2	3.7	N.D.	N.D.	N.D.	N.D.
16	39	2657.3	4.5	4.6	3.5	5.2	13.0	4.5	3.2	4.6	12.2
23	39	1903.0	3.0	2.2	2.1	3.1	9.2	4.7	3.8	5.0	7.9
40	45	652.3	1.7	1.8	1.9	1.8	2.8	1.7	1.7	1.8	2.8
40	48	1050.5	3.2	3.4	3.4	2.8	4.9	3.2	3.3	3.2	4.6
40	66	2880.5	7.3	7.4	7.4	7.5	17.5	8.1	6.5	7.9	17.3
46	66	2246.1	6.7	3.7	3.4	4.8	11.3	8.0	7.2	7.2	11.2
49	63	1500.7	5.8	4.5	4.6	4.4	7.3	N.D.	N.D.	N.D.	N.D.
49	66	1847.9	6.3	3.6	3.5	3.9	10.2	6.6	5.7	6.0	8.8
83	92	1232.6	1.6	1.9	1.8	1.7	3.7	1.8	2.0	2.0	N.D.
83	104	2554.3	2.0	2.3	2.1	2.3	12.0	N.D.	N.D.	N.D.	N.D.
93	102	1111.6	0.7	0.7	0.6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
93	104	1339.7	0.7	0.8	0.7	0.8	4.5	N.D.	N.D.	N.D.	N.D.
105	119	1711.8	2.2	2.5	2.4	2.3	7.0	2.3	N.D.	2.4	7.6
105	120	1842.9	2.2	2.5	2.4	2.4	9.2	N.D.	N.D.	N.D.	N.D.
106	119	1564.8	1.8	1.8	2.0	1.9	6.3	3.0	N.D.	3.6	6.3
120	133	1598.8	0.2	0.1	0.2	0.2	2.0	-0.1	0.1	-0.1	8.2
121	130	1104.6	0.2	0.2	0.2	0.1	4.3	-0.2	0.1	-0.1	5.1
123	133	1255.6	0.2	0.3	0.3	0.3	6.5	0.1	0.2	0.1	6.1
132	139	878.4	1.9	1.8	1.9	2.2	3.2	N.D.	N.D.	N.D.	N.D.
140	147	818.4	0.2	0.4	0.4	0.5	3.1	1.1	N.D.	0.2	3.0

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140 165	2692.4	1.8	2.3	2.3	2.3	16.9	1.4	2.3	1.8	N.D.
148 165	1892.0	1.2	1.4	1.4	1.1	N.D.	0.6	0.6	0.6	11.8
148 167	2105.1	2.1	2.2	2.2	2.2	12.2	1.9	1.8	1.9	11.4
149 165	1744.8	0.9	0.7	0.9	0.9	9.7	0.7	0.8	0.8	N.D.
149 167	1958.0	1.7	1.7	1.8	1.8	9.5	1.5	1.4	1.5	N.D.
168 178	1167.6	1.9	1.9	2.1	1.7	7.0	1.8	1.9	1.8	N.D.
169 178	1054.6	1.1	1.1	1.6	0.8	N.D.	1.5	2.3	1.6	N.D.
207 214	892.5	1.5	1.5	2.0	1.5	2.3	1.7	1.7	1.7	2.8
215 238	2641.3	2.4	N.D.	N.D.	3.7	7.5	N.D.	N.D.	N.D.	N.D.
215 229	1498.7	2.5	3.9	3.8	3.0	5.2	3.2	4.1	3.7	5.7
216 229	1369.6	2.5	3.9	4.0	3.2	4.5	N.D.	N.D.	N.D.	N.D.
230 241	1530.7	0.4	1.3	1.4	0.7	1.9	0.9	2.5	1.1	2.2
242 254	1605.9	4.2	3.4	3.8	3.8	3.4	4.1	3.6	3.5	3.1
242 256	1833.0	5.2	4.0	4.3	4.5	4.1	5.1	4.4	4.7	4.0
265 280	1748.9	4.6	5.7	5.3	5.0	3.0	4.5	N.D.	5.0	2.6
266 280	1619.9	4.8	4.8	5.1	5.1	3.1	4.7	4.8	4.8	2.9
285 290	726.3	1.1	1.3	1.4	1.1	1.2	0.9	N.D.	0.8	1.0
307 315	1062.5	0.8	N.D.	N.D.	0.7	2.6	1.7	N.D.	2.4	N.D.
307 323	1986.1	0.3	0.4	0.4	0.4	4.9	0.3	0.4	0.4	1.3
307 330	2787.5	1.8	1.8	1.9	1.9	7.0	1.6	1.8	1.8	2.2
316 330	1742.9	1.4	1.4	1.5	1.4	4.3	1.3	1.7	1.5	1.6
331 346	1707.0	1.6	2.8	2.8	3.3	6.7	1.5	2.6	3.0	N.D.
331 349	2022.2	1.7	2.9	2.4	2.9	N.D.	1.4	2.3	2.7	N.D.
334 346	1381.8	1.3	2.3	2.8	2.6	N.D.	N.D.	N.D.	N.D.	N.D.
334 348	1582.0	1.4	2.4	2.2	2.6	6.4	N.D.	N.D.	N.D.	N.D.
334 349	1697.0	1.3	2.1	2.2	2.8	7.0	0.5	0.7	1.0	N.D.
347 364	2094.0	4.2	3.8	3.9	4.3	7.3	4.4	4.1	4.3	7.5
349 365	1964.9	4.2	3.7	3.6	4.2	7.1	4.4	N.D.	4.3	7.1
350 364	1778.8	4.3	3.8	3.9	4.4	6.1	4.5	N.D.	4.5	12.2
365 373	848.4	0.1	0.1	0.1	0.2	3.9	0.4	1.2	0.8	3.9
366 373	777.4	0.0	0.1	0.0	0.1	3.2	-0.2	0.2	0.1	3.9