BON	LS5	CRF	93.7	3.88	2.28	0.16	89.8	2.98	3.06	4.13	13.5	16.2	19.8	16.4	91.1	34.8
BON	BFW	CRF	93.4	4.19	2.24	0.21	89.8	3.00	3.04	4.18	13.1	16.4	19.5	16.8	91.1	32.9
CAT	LS5	CRF	93.7	3.66	2.46	0.18	90.0	2.84	2.55	4.57	13.8	16.1	19.6	18.7	91.4	39.2
BON	BRE	CRF	93.6	3.81	2.37	0.23	89.8	2.98	3.07	4.17	13.1	16.2	19.7	16.6	91.1	36.6
-	BFW		-	3.99			-		2.59		-		19.8			36.3
-			-				-				-					
-	BRE			3.63			-		3.06		-		20.2		-	35.5
	BFW		_	3.29			-		3.08		-		19.6		-	30.9
SAC	BRE	CRF	93.6	3.74	2.46	0.18	89.9	2.87	2.54	4.69	14.0	16.5	20.8	18.9	91.3	40.6
CAU	BRE	CRF	93.6	3.45	2.45	0.46	89.5	3.07	2.99	4.42	13.9	16.5	20.7	17.4	90.8	36.8
CAU	LS3	CRF	93.5	3.74	2.46	0.30	89.4	3.11	3.04	4.42	13.4	16.8	20.5	17.8	90.7	34.0
SAC	BFW	CRF	93.5	3.56	2.50	0.44	89.6	2.98	2.55	4.83	15.0	16.8	21.0	19.5	91.1	34.2
-	LS1		-	4.11			-		3.24		-		21.0		-	34.3
-			-				-				-				-	
-				3.48			-		3.05		-		21.9		-	35.1
MIN	LS5	CRF	93.5	3.78	2.53	0.16	89.2	3.09	2.61	5.05	14.6	17.6	21.7	19.7	90.8	37.5
MIN	BRE	CRF	93.5	3.79	2.56	0.17	89.0	3.16	2.65	5.16	15.0	17.9	22.6	19.7	90.5	39.6
CAU	LS1	CRF	93.6	3.85	2.42	0.08	88.2	3.51	3.34	4.91	15.2	19.3	23.4	19.7	89.7	33.8
BON	LS1	CRF	93.6	4.00	2.37	0.04	88.0	3.59	3.62	4.76	15.2	19.2	23.7	18.8	89.6	35.6
SAC	LS3	CRF	92.9	3.60	2.76	0.73	89.2	3.07	2.52	5.16	15.7	17.9	22.0	21.0	90.8	35.0
-	BFW		-	3.54			-		2.76		-		22.8		-	36.0
-			-				-				-				-	
-			-	3.78			-		2.58		-		22.2		-	37.6
URN -	URN	CRF	93.1	3.86	2.72	0.27	88.4	3.46	3.14	5.02	15.5	19.0	23.3	18.9	89.9	36.9
CAT	BRE	CRF	92.7	4.42	2.74	0.12	88.8	3.07	2.46	5.69	16.9	18.3	24.1	20.9	90.4	43.3
CAU	CAT	СТС	91.3	6.08	2.44	0.18	85.6	4.29	4.99	5.12	13.3	17.6	19.8	15.6	87.8	11.9
URN	CAT	CRF	92.7	4.18	2.69	0.44	88.4	3.46	3.16	5.01	15.8	19.8	23.3	19.4	89.8	35.2
-	URN		-	3.88			-		2.95		-		26.2		-	43.0
-			-				-				-				-	
-	LS3			4.66			-		3.73				21.2		-	8.20
CAT	LS1	CRF	93.4	3.91	2.67	0.07	87.8	3.54	2.90	5.79	18.0	21.4	28.5	23.9	89.5	34.3
BON	SAC	CTC	91.0	6.52	2.32	0.13	84.3	4.69	5.57	5.38	13.6	18.4	21.8	15.3	86.5	9.14
MIN	CAT	СТС	91.8	5.85	2.27	0.08	86.0	4.17	3.75	6.07	14.7	21.2	24.4	17.5	88.4	8.13
SAC	BRE	CTC	92.2	4.19	2.43	1.18	- 87.0	3.76	3.77	5.45	14.8	19.3	21.8	19.8	89.5	11.2
MIN		CRF	-	3.94			-		2.84		-		26.0		-	37.1
			-				-				-				-	
SAC			-	4.08			-		2.99		-		27.9		-	35.9
BON	LS5	CTC	90.9	6.00	2.65	0.41	85.0	4.50	5.40	5.06	13.0	17.1	21.2	15.8	87.4	9.06
SAC	LS5	CTC	91.5	5.38	2.63	0.48	86.4	3.99	3.97	5.67	14.2	20.0	21.4	18.3	88.9	8.35
BON	BFW	СТС	90.5	6.64	2.62	0.24	84.3	4.85	5.58	5.24	13.4	18.0	21.3	16.4	86.7	7.96
BON	CAT	СТС	90.0	7.48	2.32	0.18	83.5	5.01	5.67	5.84	13.7	17.8	21.5	14.7	85.5	7.96
CAU	URN	CRF	92.6	4.64	2.52	0.24	- 87.5	3.73	3.53	5.18	15.5	20.2	26.0	19.9	89.3	41.4
	CAT			4.04			-		3.68		-		28.1		-	46.2
-			-				-				-				-	
-	LS3		-	5.58			-		4.39		-		21.9		-	7.12
-	SAC		-	6.73			-	4.96	5.09	5.78	14.0	20.2	22.7	15.8	-	8.10
CAU	CAT	CRF	92.8	4.56	2.48	0.18	87.6	3.73	3.33	5.28	17.4	22.0	27.1	20.3	88.6	40.9
CAT	LS5	СТС	91.2	5.67	2.69	0.45	85.9	4.16	3.87	6.02	14.6	20.7	23.3	18.5	88.5	8.05
SAC	CAT	СТС	92.1	5.47	2.32	0.15	86.0	4.07	3.77	6.16	16.0	25.2	29.4	20.2	88.4	8.00
CAT	CAT	CRF	92.7	4.39	2.77	0.14	87.9	3.49	3.04	5.58	17.1	23.6	30.1	27.0	89.1	49.0
-			-	4.30			-		2.95		-		30.0		-	44.9
-			-				-				-				-	_
-	BFW		-	4.72			-		3.75				23.6		-	5.57
URN -	LS3	CTC	91.9	4.81	2.92	0.33	87.8	3.04	1.75	7.43	26.3	24.8	30.3	30.9	90.3	10.4
MIN	LS3	CRF	92.4	3.76	2.90	0.90	87.5	3.68	2.83	5.95	18.1	21.2	26.8	22.8	89.3	36.6
URN	CAT	СТС	90.5	6.36	2.84	0.26	84.8	4.67	4.78	5.70	14.2	19.1	21.6	16.9	87.2	10.8
MIN	LS5	СТС	91.1	5.63	2.67	0.60	- 85.1	4.54	3.91	6.42	14.6	21.1	22.9	17.3	87.6	7.99
BON			-	6.54			-		5.54		-		21.5		-	12.8
-	BRE		-	4.74			-		3.91		-		23.3		-	10.3
-			-	_			-								-	
-			-	2.59			-		1.72		-		30.2		-	9.64
CAT	SAC	CTC	92.1	4.95	2.38	0.55	86.3	3.93	3.35	6.38	18.7	25.6	28.9	22.8	88.8	8.15
CAU	LS3	СТС	91.7	3.65	2.91	1.71	87.3	3.13	1.68	7.87	25.6	29.4	32.2	31.5	89.9	9.62
SAC	SAC	СТС	91.9	3.44	2.45	2.20	86.1	3.82	3.01	7.07	22.4	26.6	31.3	25.0	88.6	9.23
- URN	LS5	СТС	91.7	2.91	3.01	2.40	86.9	3.35	1.88	7.83	28.0	26.8	32.3	31.6	- 89.5	9.96
-	SAC		-	6.61	_		-		4.78		-		27.9		-	5.67
-	_		-				-								-	
SAC			-	3.61			-		3.43		-		30.7			47.3
-	CAT		-	5.32			-		3.65		-		30.6		-	10.1
BON	URN	СТС	84.4	12.3	3.18	0.14	80.8	6.29	7.09	5.79	13.2	19.0	22.2	15.4	83.1	8.85
SAC	URN	CRF	92.3	4.52	2.89	0.26	86.9	3.83	3.28	5.96	17.6	22.5	29.0	24.2	88.9	45.8
CAU	BRE	СТС	91.4	2.91	3.03	2.70	86.6	3.49	1.98	7.89	29.3	28.1	30.8	31.6	89.3	11.5
BON	LS1	СТС	81.8	15.0	3.14	0.06	79.5	6.78	6.66	7.08	12.9	20.6	22.9	14.4	81.6	8.20
-	SAC		-	4.11			-		3.28				30.4	_	-	48.0
-			-				-				-				-	
-	URN		-	4.25			_		3.76		_		28.4			41.4
MIN	LS1	CTC	87.7	9.14	3.04	0.08	83.2	5.23	4.49	7.06	15.2	23.1	24.2	17.7	85.9	8.08
URN	BFW	СТС	91.3	2.38	3.10	3.25	86.1	3.66	2.03	8.22	26.7	29.4	32.0	33.0	88.7	9.10
CAT	LS1	СТС	84.8	12.2	3.00	0.04	81.1	5.97	5.19	7.68	15.4	23.6	24.6	16.6	83.6	5.62
SAC	LS1	СТС	-	11.3			-	5.70	5.13	7.43	14.9	22.9	25.5	16.1	-	9.10
-	BFW		-	7.12		_	-		4.48				25.2		-	5.83
-			-				-				-				-	
MIN			-	9.08			-		4.72				26.4		-	7.07
URN	BRE	CTC	91.2	3.26	3.02	2.54	85.9	3.79	2.17	8.07	26.6	28.6	32.2	34.3	88.7	8.32
URN	LS1	СТС	90.8	4.88	3.17	1.16	86.1	3.63	1.98	8.31	26.4	29.8	32.0	33.5	88.8	7.24
CAT	BFW	СТС	88.8	7.95	2.88	0.39	83.2	5.31	4.76	6.67	15.9	23.3	25.1	19.6	85.9	5.71
CAT	URN	CRF	91.5	4.64	3.28	0.61	86.5	3.84	3.25	6.39	16.6	24.4	30.9	22.5	88.7	46.8
	SAC		-	3.08			-		5.22				24.9		-	38.9
-			-				-								-	
-	URN			10.2			-		5.48		-		29.0		-	6.08
	BFW		-	3.04			-		1.81		-		34.4			8.31
SAC	URN	СТС	87.3	9.78	2.76	0.11	81.8	5.82	5.06	7.31	16.7	27.8	26.3	19.0	84.3	6.79
-		СТС	-			0.05	79.7				16.0					4.69

79.7 6.75 5.32 8.24

84.9 3.70 1.74 9.63

84.9 4.05 2.17 8.87

82.8 5.50 4.82 6.91

83.8 4.08 1.88 10.3

81.5 15.2 3.23 0.05

89.0 6.56 3.80 0.64

89.8 5.40 3.40 1.42

87.9 8.14 3.03 0.94

88.2 5.74 3.83 2.20

MIN URN CTC

CAU LS1 CTC

URN URN CTC

CAT BRE CTC

CAU URN CTC

82.0 4.69

87.8 7.19

87.7 7.06

85.5 10.1

86.6 6.68

 16.0
 27.2
 31.0
 17.2

30.2 35.4 37.8 32.9

29.5 30.7 32.7 33.4

16.4 23.7 28.1 19.5

35.0 34.7 42.3 35.8

8 - Failed alignment Short alignment

93.9 3.68 2.30 0.15

93.6 <mark>3.94</mark> 2.25 **0.20**

93.8 3.74 2.30 0.15

93.7 3.88 2.28 0.16

3.52 2.42 0.14

e.e. Evaluated

COnvolution - Convolution - Encoder

URN LS5
URN BFW

URN LS3

BON LS5

LS5

SAC

- Decoder

CRF

CRF

CRF

CRF

CRF

- No prediction

- Match - Mismatch - Insertion - Deletion

90.1 2.90 2.96 4.08

90.0 2.94 2.94 4.14

89.9 2.96 <mark>3.04</mark> 4.13

89.8 2.98 <mark>3.06 4.13</mark>

90.0

2.86 2.56 4.55

e.e. - PhredQ overlap

91.3

91.3 <mark>32.8</mark>

91.3 <mark>30.3</mark>

91.2 34.7

91.1 34.8

37.2

91.4

- Cytosine

13.0 16.1 19.3 16.1

 14.1
 15.8
 20.0
 18.8

13.5 16.2 19.8 16.4

13.4 16.0 19.1

- Adenine

13.0 15.5

16.1

16.7

18.9 16.1