URN		CRF	93.9	3.7	2.4	89.9	3.0	3.0	4.1	13.0	16.0	느	16.1	0.9	0.5	
SAC		CRF	93.8	3.7	2.5	90.0	2.9	2.6	4.1	14.1	15.8	20.0	18.8	0.9	0.6	
URN				3.9		-	_			-	16.1			_		
-			93.6		2.5	90.0	2.9	2.9	4.1	-				0.9	0.9	
CAT		CRF	93.7	3.7	2.6	90.0	2.8	2.6	4.6	-				0.9	0.6	
BON		CRF	93.7	3.9	2.4	89.8	3.0	3.1	4.1	_	16.2			0.9	0.6	
BON			93.6	3.8	2.6	89.8	3.0	3.1	4.2	-	16.2	19.7		0.9	0.6	
CAT	BFW		93.5	4.0	2.6	90.0	2.9	2.6	4.5	13.9	16.1			0.9	0.6	
SAC	BRE	CRF	93.6	3.7	2.6	89.9	2.9	2.5	4.7	-	16.5	20.8	18.9	0.9	0.6	
BON		CRF	93.4	4.2	2.4	89.8	3.0	3.0	4.2	13.1	16.4	19.5	16.8	0.9	8.0	
CAU	BRE		93.6	3.4	2.9	89.5	3.1	3.0	4.4	13.9	16.5	20.7	17.4	0.9	0.6	
URN			93.7	3.6	2.6	89.5	3.1	3.1	4.3	13.4	16.4	20.2	16.9	0.9	0.7	
CAU	BFW	CRF	93.5	3.3	3.2	89.5	3.1	3.1	4.3	13.7		19.6		0.9	0.5	
CAU		CRF	93.5	3.7	2.8	89.4	3.1	3.0	4.4	-		20.5	17.8	0.9	0.6	
SAC		CRF	93.5	3.6	2.9	89.6	3.0	3.0	4.8	15.0		21.0	19.5 18.2	0.9	0.6	
URN		CRF	93.4	4.1	2.5	89.2	3.2	3.2	4.4	13.8		21.0	17.5	0.9	0.7	
MIN	LS5	CRF	93.5	3.8	2.7	89.2	3.1	2.6	5.1	-	17.6			0.9	0.7	
MIN	BRE		93.5	3.8	2.7	89.0	3.2	2.6	5.2	-	17.9			0.9	0.6	
CAU	LS1	CRF	93.6	3.8	2.5	88.2	3.5	3.3	4.9	15.2	19.3	23.4	19.7	0.9	0.4	
BON	LS1	CRF	93.6	4.0	2.4	88.0	3.6	3.6	4.8	15.2	19.2	23.7	18.8	0.9	0.5	
urn	URN	CRF	93.1	3.9	3.0	88.4	3.5	3.1	5.0	15.5	19.0	23.3	18.9	0.9	0.3	
SAC	LS3	CRF	92.9	3.6	3.5	89.2	3.1	2.5	5.2	15.7	17.9	22.0	21.0	0.9	8.0	
MIN	BFW	CRF	93.4	3.5	3.1	88.5	3.4	2.8	5.4	16.3	18.7	22.8	20.7	0.9	0.6	
CAT	LS3	CRF	92.7	3.8	3.5	89.3	3.1	2.6	5.1	15.5	17.6	22.2	21.2	0.9	0.7	
CAT	BRE	CRF	92.7	4.4	2.9	88.8	3.1	2.5	5.7	16.9	18.3	24.1	20.9	0.9	0.6	
URN	CAT	CRF	92.7	4.2	3.1	88.4	3.5	3.2	5.0	15.8	19.8	23.3	19.4	0.9	0.4	
CAU	CAT	СТС	91.3	6.1	2.6	85.6	4.3	5.0	5.1	13.3	17.6	19.8	15.6	0.9	0.1	
MIN	URN	CRF	93.2	3.9	2.9	88.1	3.4	3.0	5.5	16.5	20.6	26.2	20.9	0.9	0.6	
SAC	LS3	СТС	92.0	4.7	3.4	86.5	3.9	3.7	5.8	14.6	19.2	21.2	18.1	0.9	0.1	
MIN	LS1	CRF	92.9	3.9	3.2	88.3	3.4	2.8	5.5	16.5	20.2	26.0	22.3	0.9	0.6	
BON	LS5	СТС	90.9	6.0	3.1	85.0	4.5	5.4	5.1	13.0	17.1	21.2	15.8	0.9	0.1	
SAC	LS5	СТС	91.5	5.4	3.1	86.4	4.0	4.0	5.7	14.2	20.0	21.4	18.3	0.9	0.1	
CAU	URN	CRF	92.6	4.6	2.8	87.5	3.7	3.5	5.2	15.5	20.2	26.0	19.9	0.9	0.4	
SAC	BRE	CTC	92.2	4.2	3.6	87.0	3.8	3.8	5.5	14.8	19.3	21.8	19.8	0.9	0.1	
BON	SAC	CTC	91.0	6.5	2.5	84.3	4.7	5.6	5.4	13.6	18.4	21.8	15.3	0.9	0.1	
MIN -	CAT		91.8	5.9	2.4	86.0	4.2	3.8	6.1	14.7		24.4		0.9	0.1	
SAC		CRF	93.2		2.7	87.8	3.6	3.0	5.7	17.7			23.3	0.9	0.5	
-	BFW		90.5	6.6	2.9	84.3	4.8	5.6	5.2	13.4		21.3	16.4	0.9	0.1	
CAT		CRF	93.4	3.9	2.7	87.8	3.5	2.9	5.8	18.0			23.9	0.9	0.6	
BON		CRF	93.3	7.5	2.6	87.5	3.8 5.0	3.75.7	5.0	16.2	21.217.8		14.7	0.9	0.5	
CAT		СТС	90.0	5.6	3.0	85.3	4.4	4.4	5.9	14.5	21.2		17.7	0.9	0.1	
CAU	SAC		90.7	6.7	2.6	84.2	5.0	5.1	5.8	14.0	20.2		15.8	0.9	0.1	
CAU		CRF	92.8	4.6	2.7	87.6	3.7	3.3	5.3	17.4		27.1		0.9	0.6	
CAT		CRF	92.7	4.4	2.9	87.9	3.5	3.0	5.6	17.1	23.6	30.1	27.0	0.9	0.6	
MIN	LS3	CRF	92.4	3.8	3.8	87.5	3.7	2.8	5.9	18.1		26.8		0.9	0.5	
URN		СТС	91.9	4.8	3.2	87.8	3.0	1.8	7.4	26.3	24.8			0.9	0.1	
BON	LS3	СТС	89.4	7.4	3.2	83.3	5.3	6.1	5.4	13.2	19.0	20.6		0.9	0.1	
CAT	LS5	СТС	91.2	5.7	3.1	85.9	4.2	3.9	6.0	14.6	20.7	23.3	18.5	0.9	0.1	
CAU	LS5	СТС	91.7	2.6	5.7	87.2	3.2	1.7	7.9	26.9	27.4	30.2	31.6	0.9	0.1	
SAC	CAT	СТС	92.1	5.5	2.5	86.0	4.1	3.8	6.2	16.0	25.2	29.4	20.2	0.9	0.1	
- URN	CAT	СТС	90.5	6.4	3.1	84.8	4.7	4.8	5.7	14.2	19.1	21.6	16.9	0.9	0.1	
BON	BRE	СТС	90.1	6.5	3.4	84.2	4.9	5.5	5.4	13.5	18.1	21.5	16.6	0.9	0.1	
MIN	BFW	СТС	91.6	4.7	3.7	85.3	4.5	3.8	6.4	15.0	20.2	23.6	19.4	0.9	0.1	
MIN	CAT	CRF	92.7	4.3	2.9	87.6	3.5	2.9	5.9	18.7	23.3	30.0	23.3	0.9	0.7	
MIN	LS5	СТС	91.1	5.6	3.3	85.1	4.5	3.9	6.4	14.6	21.1	22.9	17.3	0.9	0.1	
CAU	LS3	СТС	91.7	3.7	4.6	87.3	3.1	1.7	7.9	25.6	29.4	32.2	31.5	0.9	0.1	
URN	LS5	СТС	91.7	2.9	5.4	86.9	3.3	1.9	7.8	28.0	26.8	32.3	31.6	0.9	0.1	
MIN	BRE	СТС	91.6	4.7	3.6	85.4	4.5	3.9	6.2	14.5	20.7	23.3	19.4	0.9	0.1	
CAT	SAC	СТС	92.1	5.0	2.9	86.3	3.9	3.3	6.4	18.7	25.6	28.9	22.8	0.9	0.1	
SAC			92.3	4.5	3.1	86.9	3.8	3.3	6.0	17.6	22.5	29.0	24.2	0.9	0.5	
SAC			92.8	3.6	3.6	87.3	3.7	3.4	5.5	20.1	24.7	30.7	29.9	0.9	0.6	
CAU			91.4	2.9	5.7	86.6	3.5	2.0	7.9	29.3	28.1	30.8		0.9	0.1	
SAC			91.9	3.4	4.7	86.1	3.8	3.0	7.1	-	26.6			0.9	0.1	
MIN	SAC		90.9	6.6	2.5	83.4	5.2	4.8	6.6	16.1	22.2			0.9	0.1	
-			92.4		3.4	87.5	3.6	3.3	5.6	-	24.8			0.9	0.8	
CAT BON		CTC	92.0	5.3 4.2	3.6	85.8	4.1	3.7	6.4 5.6	16.3	28.0	30.6	20.2	0.9	0.1	
-			-			-				-				-		
BON		СТС	91.3	2.4	3.3 6.4	80.8	6.3 3.7	7.1	5.8 8.2	26.7	19.0 29.4	32.0		0.8	0.1	
URN			91.3	3.3	5.6	85.9	3.7	2.0	8.2	26.7	29.4			0.9	0.1	
BON		СТС	81.8		3.2	79.5	6.8	6.7	7.1	12.9		22.9	14.4	0.8	0.1	
CAT			91.5	4.6	3.9	86.5	3.8	3.3	6.4	16.6	24.4	30.9	22.5	0.9	0.5	
SAC	BFW		89.5	7.1	3.4	83.9	5.0	4.5	6.6	-	22.4			0.9	0.1	
URN	LS1	СТС	90.8	4.9	4.3	86.1	3.6	2.0	8.3	26.4	29.8	32.0	33.5	0.9	0.1	
BON	SAC	CRF	91.3	3.1	5.6	84.1	5.1	5.2	5.6	19.5	21.1	24.9	27.4	0.9	0.4	
CAU	BFW	СТС	89.9	3.0	7.1	85.2	3.6	1.8	9.3	32.3	30.0	34.4	36.6	0.9	0.1	
MIN	LS3	СТС	88.0	9.1	3.0	82.4	5.6	4.7	7.3	15.2	23.8	26.4	17.4	0.8	0.1	
MIN	LS1	СТС	87.7	9.1	3.1	83.2	5.2	4.5	7.1	15.2	23.1	24.2	17.7	0.9	0.1	
SAC	LS1	СТС	85.7	11.3	3.0	81.7	5.7	5.1	7.4	14.9	22.9	25.5	16.1	0.8	0.1	
CAT	BFW	СТС	88.8	7.9	3.3	83.2	5.3	4.8	6.7	15.9	23.3	25.1	19.6	0.9	0.1	
CAT	LS1	СТС	84.8	12.2	3.0	81.1	6.0	5.2	7.7	15.4	23.6	24.6	16.6	0.8	0.1	
CAT	URN	СТС	86.9	10.2	2.9	81.6	5.9	5.5	7.0	16.1	26.1	29.0	17.7	0.8	0.1	
URN	URN	СТС	89.8	5.4	4.8	84.9	4.1	2.2	8.9	29.5	30.7	32.7	33.4	0.9	0.1	
SAC	URN	СТС	87.3	9.8	2.9	81.8	5.8	5.1	7.3	16.7	27.8	26.3	19.0	0.8	0.1	

CAU LS1 CTC

CAU URN CTC

CAT BRE CTC

MIN URN CTC

88.2

87.9

81.5 15.2

89.0 6.6

5.7

8.1

4.4

6.0

4.0

3.3

4.1

5.5

3.7 1.7

1.9

4.8

5.3

9.6

10.3

8.2

84.9

83.8

82.8

79.7 6.8

0.9

0.9

8.0

0.1

0.1

0.1

30.2 35.4 37.8 32.9

35.0 34.7 42.3 35.8

16.4 23.7 28.1 19.5

 16.0
 27.2
 31.0
 17.2

8. - C - Homopolymer error rate (%)
6. - G - Homopolymer error rate (%)
1.91 - T - Homopolymer error rate (%)

16.1

13.0 15.5 18.9

c.o. - Overlap

0.6

0.9

.8 - A - Homopolymer error rate (%)

... - Reads failed alignment (%)

3.7

93.9

- Decoder

CRF

- Encoder

URN LS5

Convolution

- Reads failed other (%)

2.4

o - Mismatch rate (%)

2.9

Match rate (%)

90.1

... - Insertion rate (%)

3.0

- Deletion rate (%)

4.1