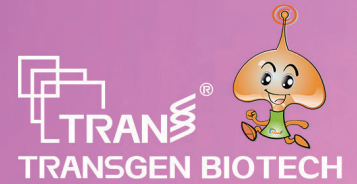


TransGen



**STAR PRODUCTS
SEAMLESS CLONING
AND ASSEMBLY**

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pEASY[®]-Basic Seamless Cloning and Assembly Kit

(CU201)

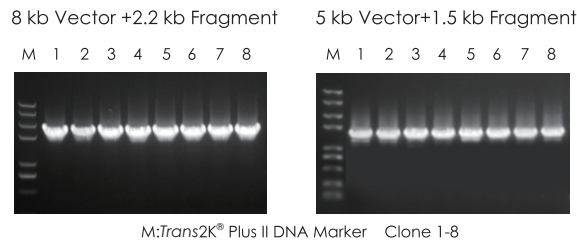
Simultaneously assemble 1~5 fragments

- Efficient: Achieves a positive clone rate of over 95%.
- Rapid: Requires only 5-15 minutes of reaction time.
- Multi-Fragment Assembly: Enables seamless assembly of up to 5 fragments.
- Simple: Independent of restriction sites—no enzymatic digestion required.
- Online Primer Design Tool: Provides an intelligent online software for rapid generation of high-specificity primers.

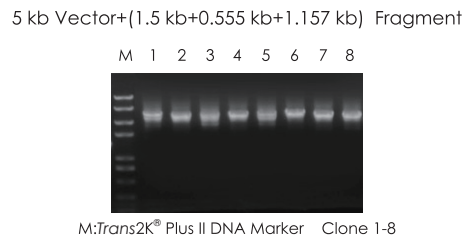
Data Presentation

High Assembly Efficiency

1 Vector + 1 Fragment



1 Vector + 3 Fragments



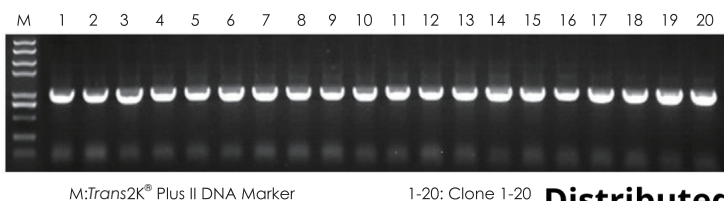
pEASY[®] Pro Seamless Cloning and Assembly Kit (CU202)

- High-Efficiency Cloning: Delivers higher positive rates for large-fragment & multi-fragment assembly, generating more colonies (single/multi-fragment recombination).
- Multi-Fragment Assembly: Seamlessly joins up to 12 fragments in a single reaction.
- Rapid Recombination: Completes assembly in just 5–15 minutes.
- Large-Capacity Construction: Successfully builds plasmids up to 31.8 kb (vector + insert).
- Broad Compatibility: Efficiently ligates low-concentration DNA (as low as 0.003 pmol) for both single- and multi-fragment cloning.

High Assembly Efficiency

TransGen's product demonstrates superior performance in vector-insert (single/multi-fragment) ligation, delivering higher cloning efficiency and greater colony numbers.

Single-Fragment Insertion

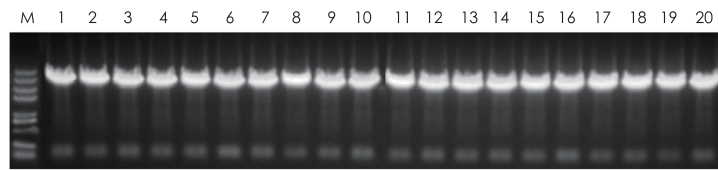


Vector Length (kb)	Insert Length (kb)	Single Colonies (1/1000 dilution plating)	Positive Clone Percentage
2.6	1	312	100% (20/20)

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Multi-Fragment Insertion

Four-Fragment Insertion

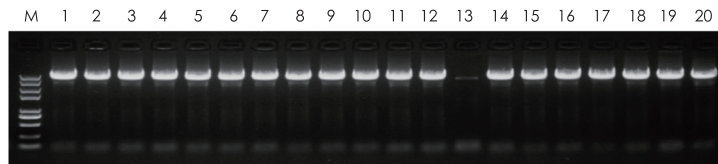


M:Trans2K[®] Plus II DNA Marker

1-20: Clone 1-20

Vector Length (kb)	Insert Length (kb)	Single Colonies (1/5 dilution plating)	Positive Clone Percentage
3.9	1.8+1.4+1.2+0.5	408	100% (20/20)

Six-Fragment Insertion

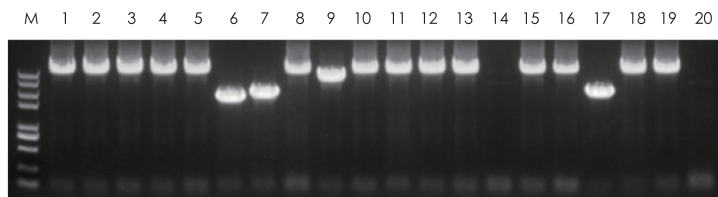


M:Trans2K[®] Plus II DNA Marker

1-20: Clone 1-20

Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
3.9	1.8+1.4+1.2+0.6+0.5+0.3	407	95% (19/20)

Eight-Fragment Insertion



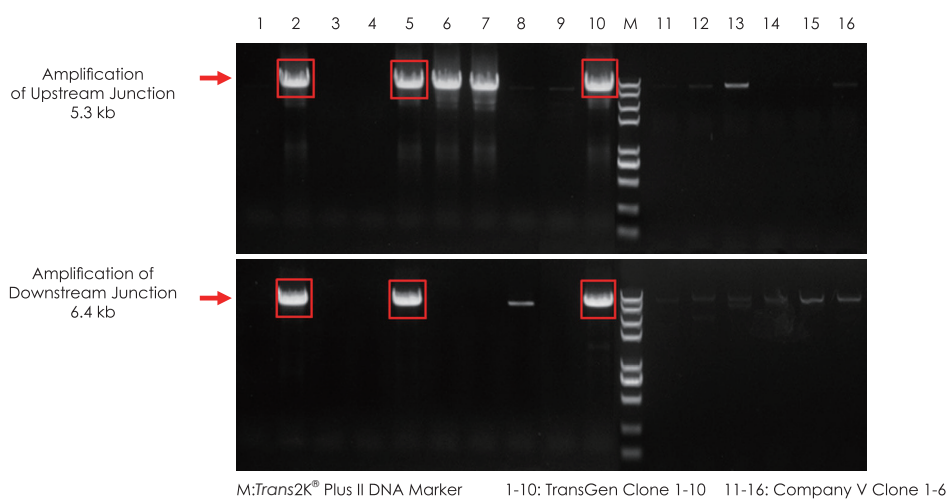
M:Trans2K[®] Plus II DNA Marker

1-20: Clone 1-20

Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
3.9	1.8+1.4+1.2+0.8+0.6+0.5+0.4+0.3	491	70% (14/20)

Construction of a 31.8 kb Large Plasmid

Using TransGen and Company V products for the ligation of four DNA fragments, the results demonstrated that TransGen successfully constructed a 31.8 kb large plasmid with higher positive rates and more clones, whereas Company V failed to achieve successful assembly.

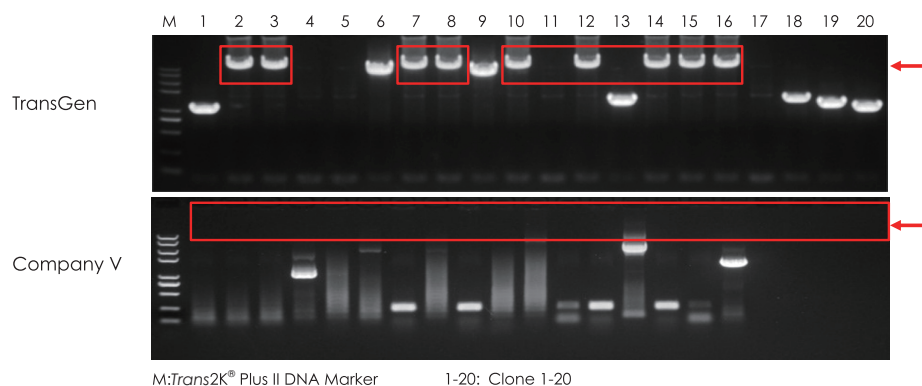


Product	Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
TransGen	5.8	5+6+7+8	32	30% (3/10)
Company V			6	0 (0/6)

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Compared with competitor products

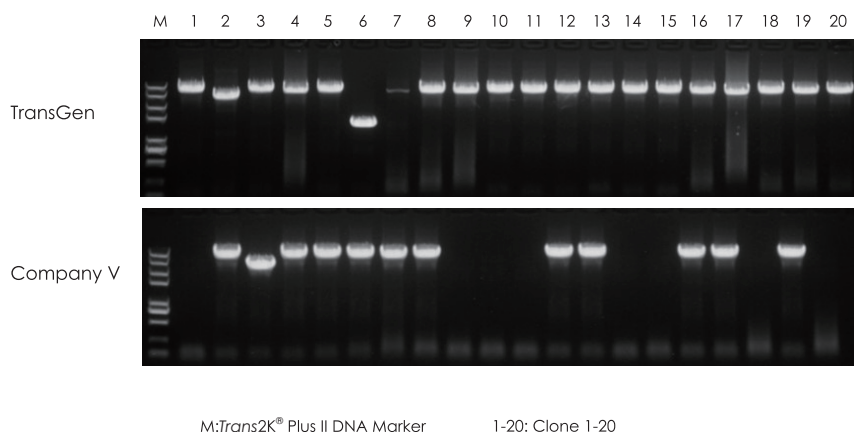
Comparative analysis of 11-fragment assembly demonstrated TransGen's superior performance, yielding both higher colony counts and cloning efficiency than Company V's product.



Product	Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
TransGen	3.9	1.8+1.4+1.2+0.9+0.8+0.7+0.6+0.5+0.4+0.3+0.2	96	45% (9/20)
Company V			17	0 (0/17)

Low-concentration fragment assembly

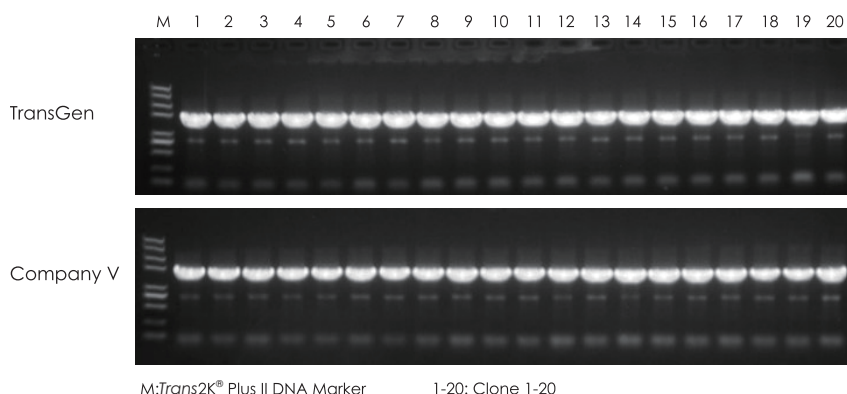
When assembling 4 DNA fragments at 1/10 the standard input (0.003 pmol), TransGen's cloning system demonstrated superior efficiency over Company V, producing higher colony counts and greater positive clone rates.



Product	Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
TransGen	3.9	1.8+1.4+1.2+0.5	465	85% (17/20)
Company V			265	55% (11/20)

Good stability

TransGen products are stored under standard conditions and at 25°C for 21 days, followed by ligation of the vector with two DNA fragments. The results demonstrated that TransGen products exhibit excellent stability.



TransGen	Vector Length (kb)	Insert Length (kb)	Single Colonies (1/5 dilution plating)	Positive Clone Percentage
Standard conditions	3.9	1.2+0.5	1733	100% (20/20)
at 25°C for 21 days			1258	100% (20/20)

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pEASY[®]-Uni Seamless Cloning and Assembly Kit

(CU101)

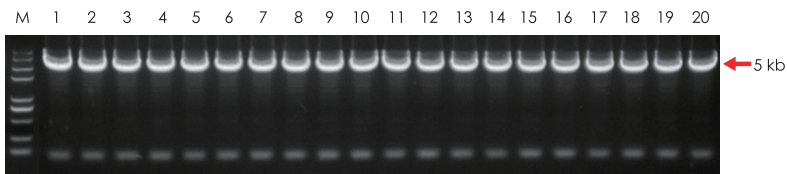
Simultaneously assemble 1~15 fragments

- High Cloning Efficiency: High positive rate, abundant colonies.
- Multi-Fragment Assembly: Enables seamless assembly of up to 15 fragments.
- Rapid Reaction: Completes the recombination process in just 5-15 minutes.
- Large Capacity Assembly: Successfully constructs plasmids up to 31.8 kb (vector + insert).
- Long Vector Compatibility: Efficiently assembles long vectors up to 14 kb.
- Broad Compatibility: Supports highly efficient assembly of single or multiple fragments, even at low concentrations (e.g., 0.003 pmol).
- Online Primer Design Tool: Provides an intelligent online software for rapid generation of high-specificity primers.

Data Presentation

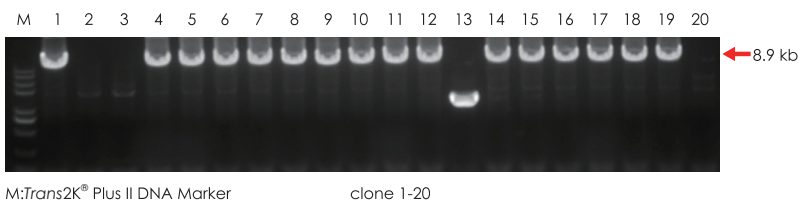
High Assembly Efficiency

1 Vector + 4 Fragments



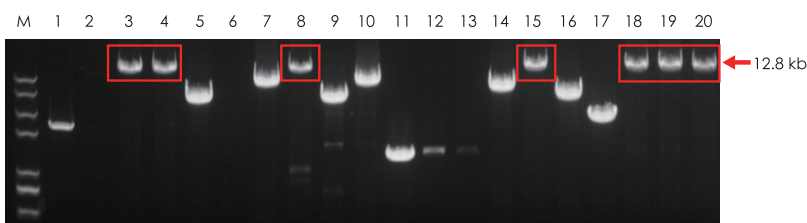
Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (1/5 plating volume)	Positive Rate
3.9	1.8+1.4+1.2+0.5	421	100% (20/20)

1 Vector + 11 Fragments



Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (Whole plating volume)	Positive Rate
3.9	1.8+1.4+1.2+0.9+0.8+0.7+0.6+0.5+0.4+0.3+0.2	131	80% (16/20)

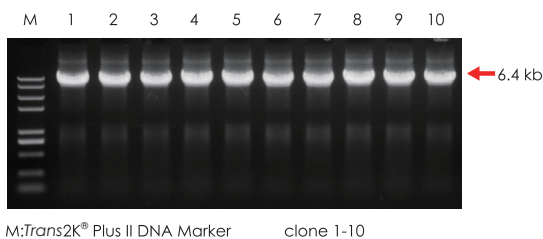
1 Vector + 14 Fragments



Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (Whole plating volume)	Positive Rate
5.8	1.8+1.4+1.3+1.2+1.1+1.0+0.9+0.8+0.7+0.6+0.5+0.4+0.3+0.2	115	35% (7/20)

The results showed that the TransGen product achieved a high cloning efficiency and a large number of clones when used for vector and multi-fragment assembly.

Successful Assembly with 14 kb Long Vector

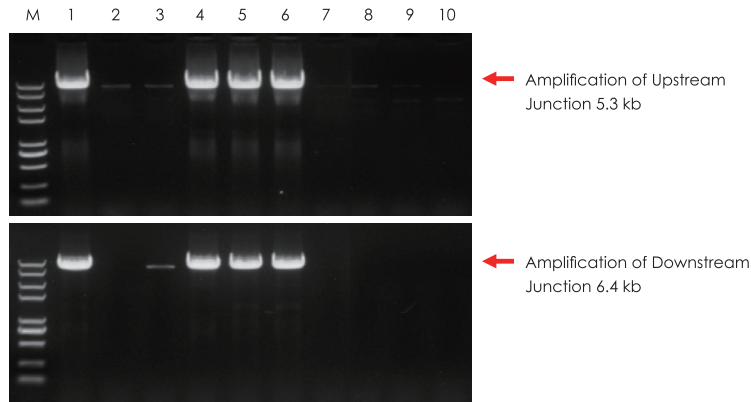


Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (Whole plating volume)	Positive Rate
14	6	317 ↑	100% (10/10)

Successful assembly of the 14 kb long vector and the 6 kb fragment was achieved using the TransGen product. This validates the efficacy of the system for ligating large constructs.

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Construction of a 31.8 kb Large Plasmid

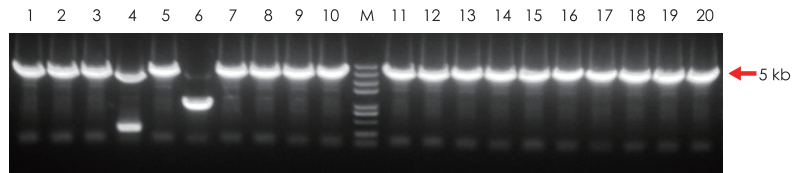


Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (Whole plating volume)	Positive Rate
5.8	5+6+7+8	35	40% (4/10)

M:Trans2K[®] Plus II DNA Marker clone 1-10

Using the TransGen product for long-fragment assembly, the results demonstrate the successful construction of a large 31.8 kb plasmid.

Successful Low-Concentration Multi-Fragment Assembly



Vector Length (kb)	Insert Fragment Length(s) (kb)	Number of Colonies (Whole plating volume)	Positive Rate
3.9	1.8+1.4+1.2+0.5	489	90% (18/20)

M:Trans2K[®] Plus II DNA Marker clone 1-20

Fragment input amount is 1/10 of routine input (0.003 pmol)

Product Information

Product Name	Cat. No	Specification
pEASY [®] -Uni Seamless Cloning and Assembly Kit	CU101-01	10 rxns
	CU101-02	20 rxns
	CU101-03	60 rxns
pEASY [®] -Basic Seamless Cloning and Assembly Kit	CU201-02	20 rxns
	CU201-03	60 rxns
pEASY [®] Pro Seamless Cloning and Assembly Kit	CU202-02	20 rxns
	CU202-03	60 rxns

Reference

pEASY®-Uni Seamless Cloning and Assembly Kit (CU101)

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NB-45-00042-25	Super NI-NTA Agarose Resin	25ml
NB-45-00058-4	Proteus 1 -step Batch Mini Spin Column Pack	40pc
NB-12-6001-3	NeoLine pipette 2-20 µl	1unit
NB-12-0023C	Mini Centrifuge N500C @10,000rpm (Including 6x1.5/2.0ml angle rotor)	1pcs
NB-03-0160	Proteinase K (Powder)	100mg
NB-60-0001	NeoPrep mini	50columns
NB-12-8001-19	Combs for NeoPRO4 mini (1.5mm, 15 wells)	5pieces
NB-12-8001-20	Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm)	5pieces
NB-12-8001-04	Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm)	10pieces

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