

Seamless Cloning and Assembly

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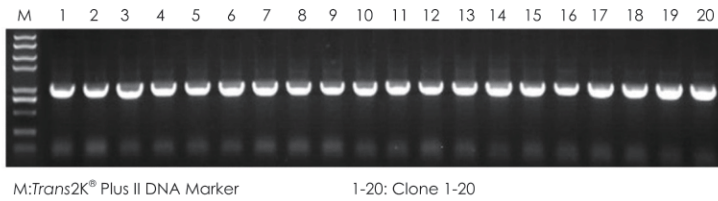
pEASY[®] Pro Seamless Cloning and Assembly Kit (CU202)

- 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.

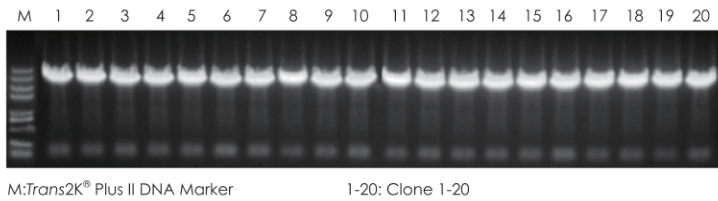
Single-Fragment Insertion



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

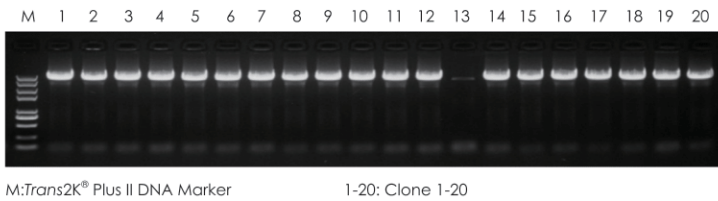
Multi-Fragment Insertion

Four-Fragment Insertion



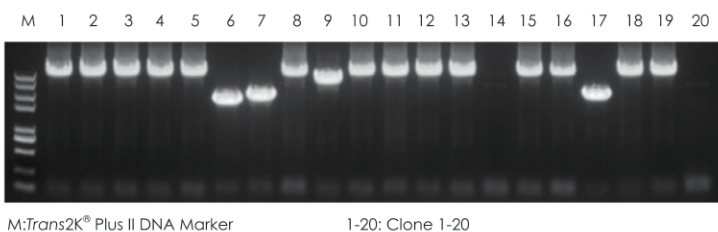
Vector Length (kb)	Insert Length (kb)	Single Colonies (1/5 dilution plating)	Positive Clone Percentage
3.9	1.8+1.4+1.2+0.5	408	100% (20/20)

Six-Fragment Insertion



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

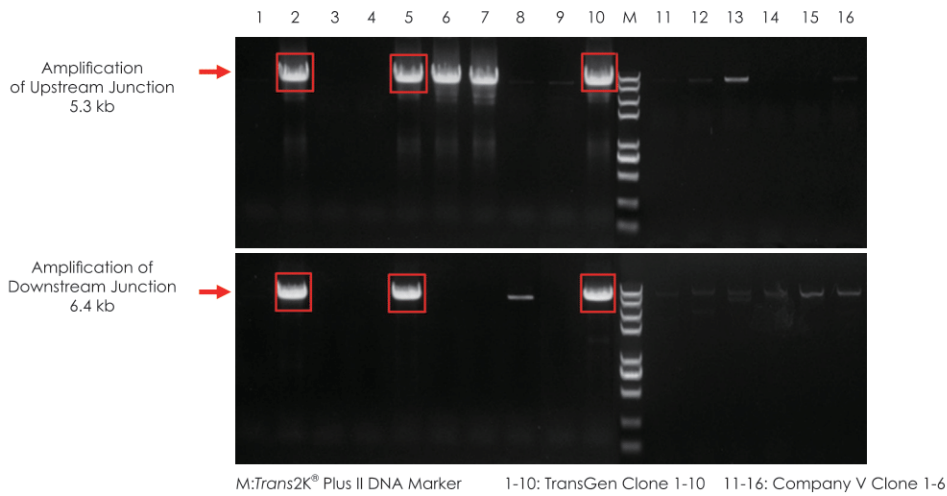


Vector Length (kb)	Insert Length (kb)	Single Colonies (Undiluted plating)	Positive Clone Percentage
3.9	1.8+1.4+1.2+0.8+0.6+0.5+0.4+0.3	491	70% (14/20)

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Construction of a 31.8 kb Large Plasmid

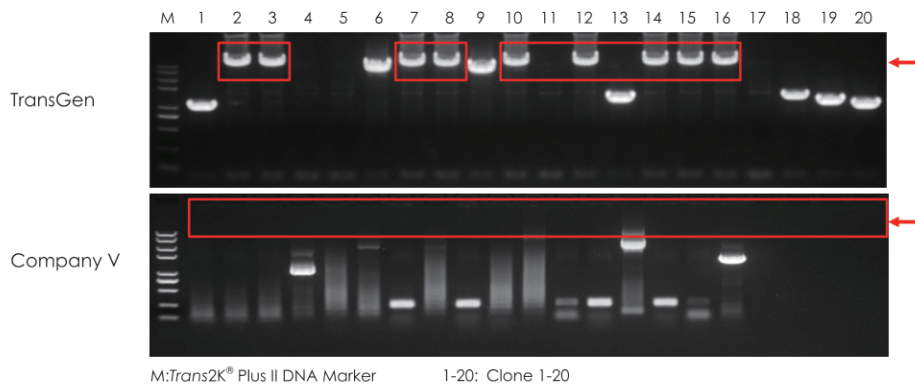
Using TransGen and Company V products for the ligation of four DNA fragments, the results demonstrated that TransGen successfully constructed a 31.8 kb large plasmid with higher positive rates and more clones, whereas Company V failed to achieve successful assembly.



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)

Compared with competitor products

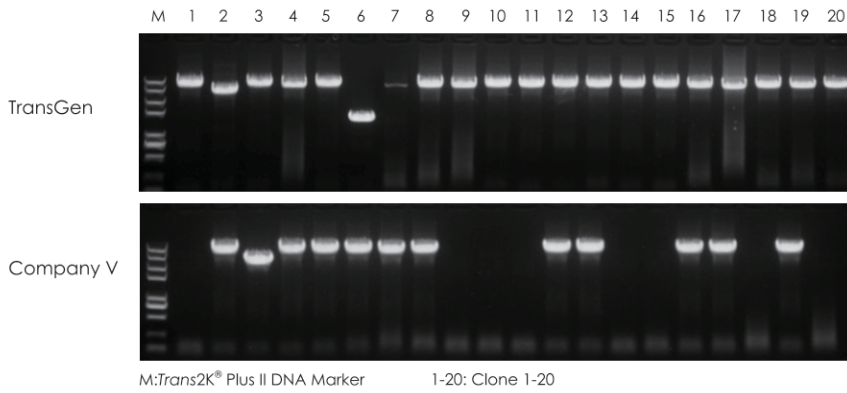
Comparative analysis of 11-fragment assembly demonstrated TransGen's superior performance, yielding both higher colony counts and cloning efficiency than Company V's product.



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

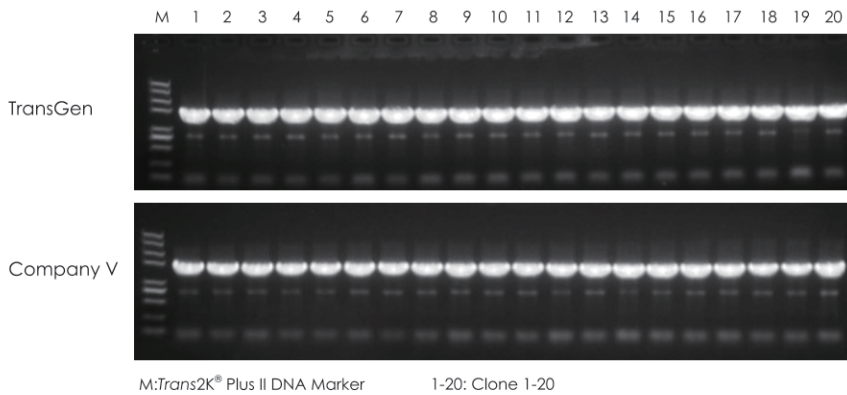
When assembling 4 DNA fragments at 1/10 the standard input (0.003 pmol), TransGen's cloning system demonstrated superior efficiency over Company V, producing higher colony counts and greater positive clone rates.



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)

Product Information

Product Name	Cat. No	Specification
pEASY [®] Pro Seamless Cloning and Assembly Kit	CU202-02	20 rxns
	CU202-03	60 rxns

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Cat#	Description	Cond.
NB-45-00042-100	Super NI-NTA Agarose Resin	100ml
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

“Remember, if you ever get lost or have questions, don't hesitate to reach out to our customer support team. They're here to help you address any concerns you may have.”

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