

New_Assembly

Created: 12/13/2021, 5:52:38 PM

Saved: not saved

Component Fragments

Name	Length	Produced by	5' End	3' End
nsP	4479	PCR	Fwd Primer (custom)	Rev Primer (custom)
sp and backbone	5687	PCR	Fwd Primer (custom)	Rev Primer (custom)



Notes

- Everything looks OK. No major issues detected.

Required oligos

Name	Primer 5' (overlap/spacer/ANNEAL) 3'	Len	%GC	3' %GC	3' Tm	3' Ta
nsP_fwd	TGTGTGTCAGAATAGTGAATG	21	38	38	59.2	60.2
nsP_rev	GTTAGCTCACTCATTAGGC	19	47	47	59.6	60.2
sp and backbone_fwd	AGCATAAAGTGTAAGCCTG	20	40	40	59.6	60.6
sp and backbone_rev	AAAGCCAACCTGGTTGGTG	18	50	50	63.1	60.6

Build Settings

Property	Value
Product/Kit	#E5520 NEBuilder HiFi DNA Assembly Cloning Kit
Minimum Overlap	20 nt
Minimum Overlap Tm	48 °C
Circularize	Yes
PCR Polymerase/Kit	Q5 High-Fidelity DNA Polymerase
PCR Primer Conc.	500 nM
Min. Primer Length	18 nt

Assembled Sequence

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#ACCESSION   .
#VERSION     .
#KEYWORDS    NEBuilder
#SOURCE      synthetic DNA construct
# ORGANISM   synthetic DNA construct
#REFERENCE   1 (bases 1 to 10082)
#  AUTHORS   .
#  TITLE     NEBuilder-generated Construct
#  JOURNAL    Exported 13-DEC-2021 from NEBuilder https://nebuilder.neb.com
#COMMENT     NEBuilder-generated oligos (UPPERCASE = gene-specific, lowercase = overlap)
#COMMENT     nsP_fwd: TGTGTGTCAGAATAGTGAATG
#COMMENT     nsP_fwd 3'Tm: 59.2  3'Ta: 60.2
#COMMENT     nsP_rev: GTTAGCTCACTCATTAGGC
#COMMENT     nsP_rev 3'Tm: 59.6  3'Ta: 60.2
#COMMENT     sp and backbone_fwd: AGCATAAAGTGTAAGCCTG
#COMMENT     sp and backbone_fwd 3'Tm: 59.6  3'Ta: 60.6
#COMMENT     sp and backbone_rev: AAAGCCAAC TGGTTGGTG
#COMMENT     sp and backbone_rev 3'Tm: 63.1  3'Ta: 60.6
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