

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	5643	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	TGCCTAATGAGTGAGCTAAC	20	45	45	61.3	60.4
sp and backbone_rev	ATTCCTATTCTGACACACAAG	22	36	36	59.4	60.4

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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#DEFINITION   synthetic DNA
#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: TGCCTAATGAGTGAGCTAAC
#COMMENT      sp and backbone_fwd 3'Tm: 61.3 3'Ta: 60.4
#COMMENT      sp and backbone_rev: ATTCATTATTCTGACACACAAG
#COMMENT      sp and backbone_rev 3'Tm: 59.4 3'Ta: 60.4
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