

DAE-E system strands:

Rule tile strands.

VE1	(37-mer,	377840	/M/cm @ 260nm)	: CCATTCCGGACGTTTGC	CGGTAAAGATTAGGACATTGAA
VE2_EE00	(26-mer,	260540	/M/cm @ 260nm)	: CTGGTTCCGAGCACCGAATGGAGGTA	
VE3	(42-mer,	412740	/M/cm @ 260nm)	: TTACCGCAAACGTGGCGAGTGTGATACGACTACACCTAATCT	
VE4_EE00	(26-mer,	249800	/M/cm @ 260nm)	: ACCAGTTCAAATGTGGCGTTCATACCT	
VE5	(37-mer,	348140	/M/cm @ 260nm)	: TGAACGCCTGTAGTCGTATCACACTCGCCTGCTCGGA	
UE1	(37-mer,	374540	/M/cm @ 260nm)	: CGTTAAGGACGACGCAATTCTCACATCGGACGAGTAG	
UE2_EE11	(26-mer,	254240	/M/cm @ 260nm)	: GTCTGTGGTTTCACCTTAACGAGGTA	
UE3	(42-mer,	404820	/M/cm @ 260nm)	: AGAATTGCGTCGTGGTTGTCTAGGTCTCGCTATCACCAGATGTG	
UE4_EE11	(26-mer,	253840	/M/cm @ 260nm)	: ACCAGTACTCGTGGATCTATAATGC	
UE5	(37-mer,	378680	/M/cm @ 260nm)	: ATAGATCCTGATAGCGAGACCTAGCAACCTGAAACCA	
RE1J	(59-mer,	553620	/M/cm @ 260nm)	: CGTATTGGACATTTGCTCAGCGTTTTTCGCTGAGCTTCCGTAGACCGACTGGACATCTTC	
RE1	(37-mer,	356360	/M/cm @ 260nm)	: CGTATTGGACATTTCCGTAGACCGACTGGACATCTTC	
RE2_EE01	(26-mer,	242720	/M/cm @ 260nm)	: CTGGTCCCTTCACACCAATACGGCATT	
RE3	(42-mer,	430880	/M/cm @ 260nm)	: TCTACGGAATGTGGCAGAATCAATCATAAGACACCAAGTCGG	
RE4	(26-mer,	273000	/M/cm @ 260nm)	: CAGACGAAGATGTGGTAGTGAATGC	
RE5	(37-mer,	348160	/M/cm @ 260nm)	: CCACTACCTGTCTTATGATTGATTCTGCCTGTGAAGG	
RE5J	(59-mer,	549780	/M/cm @ 260nm)	: CCACTACCTGTCTTCTGCGACTTTTGTGCGAAGTTATGATTGATTCTGCCTGTGAAGG	
SE1J	(59-mer,	572120	/M/cm @ 260nm)	: CTCAGTGGACAGCCTACTTACCTTTTGGTAAGTATTGTTCTGGAGCGTTGGACGAAACT	
SE1	(37-mer,	360300	/M/cm @ 260nm)	: CTCAGTGGACAGCCTTCTGGAGCGTTGGACGAAACT	
SE2	(26-mer,	256620	/M/cm @ 260nm)	: GTCTGGTAGAGCACCACTGAGGCATT	
SE3	(42-mer,	415380	/M/cm @ 260nm)	: CCAGAACGGCTGTGGCTAACAGTAACCGAAGCACCACACGCT	
SE4_EE10	(26-mer,	249220	/M/cm @ 260nm)	: CAGACAGTTTCGTGGTCATCGTACCT	
SE5	(37-mer,	336840	/M/cm @ 260nm)	: CGATGACCTGCTTCGGTTACTGTTTAGCCTGCTCTAC	
SE5J	(59-mer,	539060	/M/cm @ 260nm)	: CGATGACCTGCTTCATGTGCGCTTTTGCCGACATTTGGTTACTGTTTAGCCTGCTCTAC	

Cap and input tile strands for use with R-type nucleating strands.

CapNRE1	(37-mer,	398960	/M/cm @ 260nm)	: GATAGATGAGAGATTGAGTATAGTGTGTTTATAAG
CapNUERE	(37-mer,	400000	/M/cm @ 260nm)	: AGTGAATAGAAATGAATTGTAAAGTTGTGAGGTGTTA
NRE1	(37-mer,	376320	/M/cm @ 260nm)	: ATGCCAGGACGTTTCGAGCAGTCAACAGGACGATCAA
NRE2	(26-mer,	261360	/M/cm @ 260nm)	: TGGTTAGTTTGGACCTGGCATAGGTA
NRE3	(42-mer,	424300	/M/cm @ 260nm)	: CTGCTGCGAACGTGGAAGTGATGTAAGATATGGACCTGTTGA
NRE4	(26-mer,	266160	/M/cm @ 260nm)	: CAGACTTGATCGTGGTAGGTGATTA
NUE1	(37-mer,	382040	/M/cm @ 260nm)	: CGAAGTGGACGAAGGCAAGCGTGACAAGGACCGTTAG
NUE2	(26-mer,	268540	/M/cm @ 260nm)	: TGGTTGATGGAGACCAAGTTCGAGGTA
NUE3	(42-mer,	404120	/M/cm @ 260nm)	: CGCTTGCTTCGTGGATTTGAATGGTAATGTAGACCTTGTCA
NUE4	(26-mer,	272940	/M/cm @ 260nm)	: ACCAGCTAACGGTGGTTAAGAGTAGG

Splint strands for making R-type nucleating strands with assembly PCR.

SplintNREUE2	(40-mer,	414660	/M/cm @ 260nm)	: GTGTTGTTTGATAAGTGGTTGATGGAGAGGATTTGAATGG
SplintNUERE2	(40-mer,	419340	/M/cm @ 260nm)	: AGTTGTGAGGTGTTATGGTTAGTTTGGAGGAAGTGATGTA
SplintNUEUE2	(40-mer,	418300	/M/cm @ 260nm)	: AGTTGTGAGGTGTTATGGTTGATGGAGAGGATTTGAATGG
SplintNREUE1	(40-mer,	441320	/M/cm @ 260nm)	: GTAAGATATGGAGGTAGGTGGATTAGATAGATGAGAGATT
SplintNUERE1	(40-mer,	443880	/M/cm @ 260nm)	: TGGTAATGTAGAGGTTAAGAGTAGGAGTGAATAGAAATGA
BridgeNRE1	(47-mer,	455640	/M/cm @ 260nm)	: AACCACTTATCAAACAACACTATACTCAATCTCTCATCTATCTAATC
BridgeNUERE	(47-mer,	446840	/M/cm @ 260nm)	: AACCATAAACCTCACAACCTTACAATTCAATTTCTATCTACTCCTAC
NRE5	(37-mer,	335860	/M/cm @ 260nm)	: CACCTACCTCCATATCTTACATCACTTCTCCAAACT
NUE5	(37-mer,	339240	/M/cm @ 260nm)	: TCTTAAGCTCTACATTACCATTCAAATCCTCTCCATC

Figure S4: DAE-E sequences.