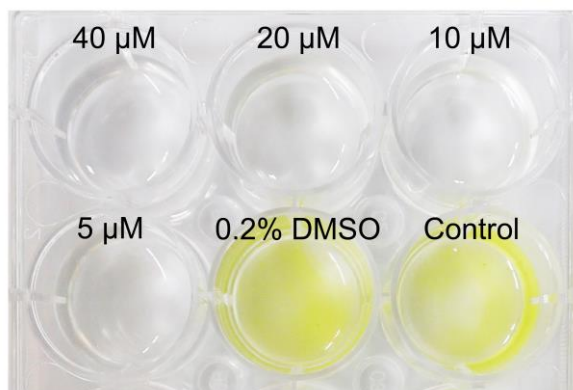




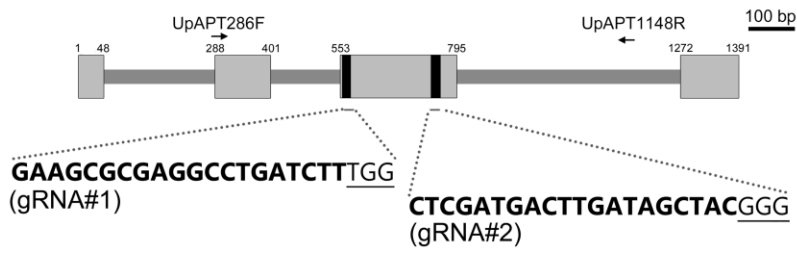
Title	Genome editing using a DNA-free clustered regularly interspaced short palindromic repeats-Cas9 system in green seaweed <i>Ulva prolifera</i>
Author(s)	Ichihara, Kensuke; Yamazaki, Tomokazu; Kawano, Shigeyuki
Citation	Phycological research, 70(1), 50-56 https://doi.org/10.1111/pre.12472
Issue Date	2021-11-03
Doc URL	http://hdl.handle.net/2115/87604
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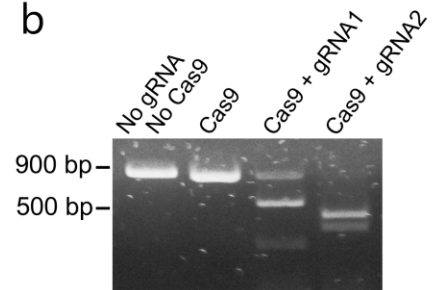
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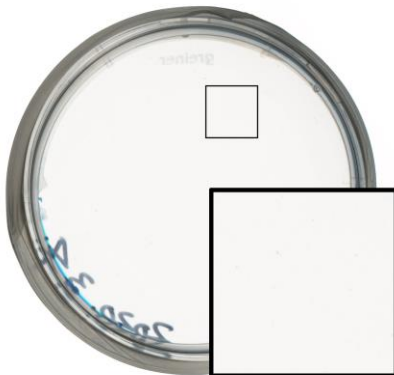
a



b



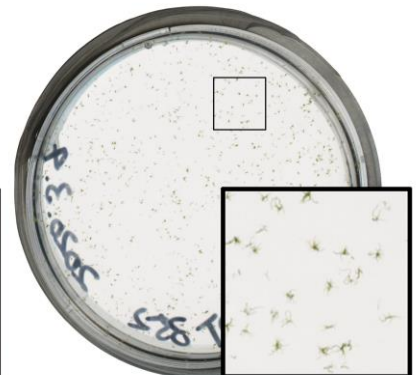
WT



Cas9 + gRNA#1



Cas9 + gRNA#2



a

gRNA#1	S	I
WT: CTTCGAAGCGCGAGGCCTGATCTTTGGGGCGC		
M1: CTTCGAAGCGCGAGGCCTGA _g CTTTGGGGCGC	1	0 (n=2)
M2: CTTCGAAGCGCGAGGCCTGA _c CTTTGGGGCGC	1	0 (n=1)
M3: CTTCGAAGCGCGAGGCCTG--CTTTGGGGCGC	0	-2 (n=3)
M4: CTTCGAAGCGCGAGGCCTGA--TTTGGGGCGC	0	-2 (n=1)
M5: CTTCGAAGCGCGAGGCCTGA-----GGGGCGC	0	-5 (n=1)
M6: CTTCGAAGCGCGAGGCCTGA _t TCCTTTGGGGCGC	0	+1 (n=2)
M7: CTTCGAAGCGCGAGGCCTGAT _g CTTTGGGGCGC	0	+1 (n=1)
M8: CTTCGAAGCGCGAGGCCTGAT _{gagggc} CTTTGGGGCGC	0	+5 (n=1)

gRNA#2	S	I
WT: GCTGCTCGATGACTTGATAGCTACGGGTGGC		
M1: GCTGCTCGATGACTTGATAG--TACGGGTGGC	0	-1 (n=3)
M2: GCTGCTCGATGACTTGATAGC---GGGTGGC	0	-3 (n=4)
M3: GCTGCTCGATGACTTGATA----CGGGTGGC	0	-4 (n=7)
M4: GCTGCTCGATGACTTGATAG----GGGTGGC	0	-4 (n=1)
M5: GCTGCTCGATGACTTGA-----CGGGTGGC	0	-6 (n=1)
M6: GCTGCTCGATGACTTGATAGC _c TACGGGTGGC	0	+1 (n=6)
M7: GCTGCTCGATGACTTGATAGC _t TACGGGTGGC	0	+1 (n=1)
M8: GCTGCTCGATGACTTGATA _{cttga} TACGGGTGGC	2	+3 (n=1)
M9: GCTGCTCGATGACTTGATAGC _{acaaga} TACGGGTGGC	0	+6 (n=1)

b

