

SUPPLEMENTARY INFORMATION

Supplementary Information Table 1 | List of nucleotide variants among the 33 SADS-CoV genomes obtained from the four farms.

The residues changed relative to that of original Farm A strain (DCD5, 2017/1/11, in yellow) are highlighted in red.

No.	Farm	Date	2116	2236	2955	3285	10860	15395	18410	20219	21139	21580	21622	21985	22180	26669
DCD5	DCD (farm A)	11/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
31	DCD (farm A)	13/1/17	c	g	t	g	t	c	t	c	t	t	c	g	c	c
57	DCD (farm A)	5/2/17	c	g	t	g	t	c	c	c	t	t	c	g	c	c
DCD6	DCD (farm A)	17/2/17	c	g	t	g	t	c	c	c	t	t	c	g	c	c
82	DCD (farm A)	22/2/17	c	g	t	g	c	c	c	c	t	t	c	g	c	c
A	DCD (farm A)	6/3/17	c	g	t	g	t	c	c	c	t	t	c	g	c	c
DCD7	DCD (farm A)	11/4/17	c	g	t	g	t	c	c	c	t	t	c	g	c	c
202	DCD (farm A)	17/4/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
C	SC (farm B)	9/8/16	c	g	t	g	t	c	t	t	t	t	c	g	c	c
34	SC (farm B)	14/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
50	SC (farm B)	22/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
54	SC (farm B)	26/1/17	c	g	c	g	t	c	t	t	t	t	c	g	c	c
250	SC (farm B)	30/5/17	c	g	c	g	t	c	t	t	t	t	c	g	c	c
32	WT (farm C)	13/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
44	WT (farm C)	20/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
89	WT (farm C)	25/2/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
146	WT (farm C)	24/3/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
175	WT (farm C)	7/4/17	c	g	t	g	t	c	t	t	c	c	c	g	c	t
182	WT (farm C)	10/4/17	c	g	t	g	t	c	t	t	c	t	c	g	c	t
192	WT (farm C)	14/4/17	c	g	t	g	t	c	t	t	c	c	c	g	c	t
203	WT (farm C)	17/4/17	c	g	t	g	t	c	t	t	c	c	c	g	c	t
211	WT (farm C)	23/4/17	c	g	t	g	t	c	t	t	c	c	c	g	c	t
246	WT (farm C)	26/5/17	c	g	t	g	t	c	t	t	c	c	c	g	c	t
27	DB (farm D)	11/1/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
53	DB (farm D)	24/1/17	c	g	t	g	t	c	t	t	t	t	c	c	t	c
75	DB (farm D)	18/2/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
86	DB (farm D)	23/2/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
188	DB (farm D)	13/4/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
189	DB (farm D)	13/4/17	c	g	t	g	t	c	t	t	t	t	c	g	c	c
197	DB (farm D)	16/4/17	c	g	t	t	t	t	t	t	t	t	a	g	c	c
D	DB (farm D)	18/4/17	c	t	t	t	t	t	t	t	t	t	a	g	c	c
207	DB (farm D)	21/4/17	t	g	t	t	t	t	t	t	t	t	a	g	c	c

Supplementary Information Table 2 | List of PCR primers used in this study.

*The numbering system of SADS-CoV Farm A (strain DCD5, 2017/1/11, GenBank Accession number MF094681) is used here.

Gene	Primer name and location*	Primer sequence	Purpose
RdRp gene	SADS-RdRp-F (19512-19531)	GTTGATTGTAAGGCTTGGCG	qPCR
	SADS-RdRp-R (19590-19608)	AACCACACTTCCAACCTCAGC	
N gene	SADS-N-F (25810-25830)	CTAAAACTAGCCCCACAGGTC	qPCR
	SADS-N-R (25938-25957)	TGATTGCGAGAACGAGACTG	
S gene	HKU2-S1-1F (20066-20085)	GGCGCTATGGCTGTTAAGAT	Amplification
	HKU2-S1-1R (22317-22336)	CACGAATGTCAGCCTCAACT	
S gene	HKU2-S1-2F (20157-20176)	CCAGTGTCAACACGTCATCT	Amplification
	HKU2-S1-2R (22218-22238)	ACGCTGAACTTAGGCATTGTA	