

Table S1. PCR outcome for initial S_scheme primer designs for each amplicon targeting a panel of East African (pool 4) FMDV isolates.

Virus isolate	Lineage	S	1	2	3	4*	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KEN/4/2018	O/EA-2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/4/2015	O/EA-3		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
ETH/9/2019	O/EA-3	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/30/2016	O/EA-4		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/14/2019	O/EA-4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/2/2018	A/G-I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
UGA/28/2019	A/G-I	+	+	+	+	+	+	+	+	+/-	+	+	+	+	+	+	+	+	+	+	+
SUD/9/2018	A/G-IV	+	+	+	+	+	+	+	+	+/-	+	+	+	+	+	+	+	+	+	+	+
ETH/19/2019	A/G-IV	+	+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
TAN/27/2012	SAT1/I	+	+	+	+			+			+/-	+	+	+	+	+	+	+	+	+	+
TAN/22/2013	SAT1/I	+	+/-	+	+		+/-	+			+	+	+	+	+	+	+	+	+	+	+
KEN/10/2013	SAT1/I	+	+	+	+		+/-	+			+	+	+	+	+	+	+	+	+	+	+
TAN/22/2014	SAT1/I	+	+	+	+		+	+			+	+	+	+	+	+	+	+	+	+	+
KEN/19/2017	SAT2/IV	+	+/-	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/16/2015	SAT2/VII-Alx12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EGY/1/2018	SAT2/VII-Ghb12	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ETH/11/2018	SAT2/VII-Lib12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

*Bold typeface indicates amplicons for which at least one primer is located within the outer capsid coding genes (1B,1C and 1D).