

Electronic Supplementary Material

Extensive evolution analysis of the global chikungunya virus strains revealed the origination of CHIKV epidemics in Pakistan in 2016

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Table S1. Primers used for CHIKV genome assembly

Primer pairs	Sequence	Length of PCR products
CHIKV-F-1	ATGGCTGCGTGAGACACACGTAG	1374 bp
CHIKV-R-1347	TTGAATGCCCATAGACARCAGC	
CHIKV-F-1308	GAGAAAGAACACTGACCTGCTG	1559 bp
CHIKV-R-2866	TTGTCTAACTGCGTAACTCCT	
CHIKV-F-2705	GTGGACACTACAGGCTCAACAA	1447 bp
CHIKV-R-4151	GAGGGTTAGCGGCGTTGACT	
CHIKV-F-3751	TCGCATACACCATTAYCAACAG	1552 bp
CHIKV-R-5302	GTTTCTCCCTCGCCTTCTTC	
CHIKV-F-5281	CAGAAGAAGGCGAGGGAGAAAC	1533 bp
CHIKV-R-6813	AGTGAATCATCTTGGCTCTTATC	
CHIKV-F-6786	CCTTTGATAAGAGCCAAGATGA	1406 bp
CHIKV-R-8191	TGCCAGCACCTGTAGGGATG	
CHIKV-F-7920	GCACGAAGGTAAGGTAACAGGT	1350 bp
CHIKV-R-9270	CGGGACCAGAGGGGAGTTAT	
CHIKV-F-9032	CCGAAGAGATAGAGGTACACAT	1399 bp
CHIKV-R-10430	GCAGTTACAGTGATGTTATTTCC	
CHIKV-F-10286	CTGAAAACACGCAGTTGAGC	1527 bp
CHIKV-R-11812	GAAATATTAACAAAATAACATCTCC	

Table S2. Geographic classification of CHIKV

Geographic division	Country	No. sequence	Total
WA (West Africa)	Nigeria	2	14
	Senegal	9	
	Cote d'Ivoire	2	
	Cameroon	1	
SEA (South east Asia)	Indonesia	4	92
	Thailand	28	
	Philippine	7	
	Malaysia	11	
	China	17	
	Myanmar	5	
	Bangladesh	1	
	Cambodia	7	
	Singapore	12	
	Oceania	New Caledonia	
CA (Central America)	Nicaragua	50	50
NA (North America)	USA	45	46
	Mexico	1	
CI (Caribbean Island)	Dominican Republic	9	10
	Country	1	
	Saint Martin		
SA (South America)	Brazil	6	7
	French Guiana	1	
ESCA (East/South/Central Africa)	Congo	2	16
	South Africa	3	
	Central African	4	
	Tanzania	1	
	Gabon	1	
	Uganda	1	
	Angola	1	
	Yemen	1	
	Kenya	2	
	IOL (India and Indian Ocean island)	India	
Sri Lanka		20	
Reunion		2	
Mauritius		2	
Madagascar		1	
Mayotte		1	
Comoros		2	
Pakistan_2016		Pakistan	8
Europe	Italy	5	6
	France	1	