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(54) **Title**: GENE SEQUENCES FOR THE DETECTION OF CHIKUNGUNYA AND DENGUE FEVER

FIGURE 2

	IMCB Combo assay					CK taqPCR		DenPCR	Den serology
Sample	CHIKV	DEN 1	DEN 2	DEN 3	DEN 4		ct	SYBR	
Negative control	14	47	48	34	20				
CHIKV 10-6	3935	38	35	32	17				
CHIKV 10-7	2823	30	30	29	14				
CHIKV 10-8	22	34	31	39	18				
CHIKV 10-9	26	37	50	35	20				
Pos Patient 1	1159	47	40	33	23				
Pos Patient 2	6075	50	59	52	24				
DEN1 10-5	27	1748	45	43	20				
DEN1 10-6	20	655	40	31	13				
DEN2 10-5	19	31	575	38	21				
DEN2 10-6	14	31	517	29	20				
DEN3 10-3	26	34	34	2987	21				
DEN3 10-4	18	33	36	1824	19				
DEN4 10-5	21	28	38	30	1469				
DEN4 10-6	20	26	30	23	1191				
108	60	124	174	112	43	not done		NDET1	
92	48	85	108	67	48	not done		NDET1	
117	39	82	4388	80	38	not done		DET1	
109	38	88	55	60	31	not done		NDET1	
85	34	40	3474	42	25	not done		DET1	
122	33	85	122	82	28	not done		NDET1	
115	33	102	4594	60	45	not done		DET1	
120	32	60	58	45	37	not done		NDET1	
112	31	49	4211	44	36	not done		DET1	
119	31	82	72	67	33	not done		NDET1	
106	30	58	4328	52	43	not done		DET1	
78	30	38	45	33	20	not done		NDET1	
96	28	46	55	46	14	not done		NDET1	
90	29	55	74	58	24	not done		NDET1	
95	29	59	61	47	22	not done		NDET1	
87	28	50	42	48	26	not done		NDET1	
113	28	47	3261	54	27	not done		DET1	
124	27	44	4556	32	37	not done		DET1	
83	27	49	46	45	21	not done		NDET1	
110	27	52	1109	45	30	not done		DET1	
111	27	54	52	39	20	not done		NDET1	
114	25	64	4122	47	36	not done		DET1	
88	25	44	46	38	21	not done		NDET1	
102	24	48	47	37	26	not done		NDET1	
81	23	34	32	32	17	not done		NDET1	
79	23	38	36	30	21	not done		NDET1	
80	23	49	3853	51	31	not done		DET1	
82	22	41	44	39	20	not done		NDET1	
100	22	42	4995	54	32	not done		DET1	
77	22	44	51	49	18	not done		NDET1	
99	22	51	51	44	24	not done		NDET1	
118	22	72	67	41	17	not done		NDET1	
75	22	62	46	36	25	not done		NDET1	
94	21	21	31	29	16	not done		NDET1	
101	21	37	49	36	23	not done		NDET1	
89	20	35	43	39	24	not done		NDET1	
121	20	36	37	27	22	not done		NDET1	
98	20	39	42	31	20	not done		NDET1	
116	20	40	37	38	26	not done		NDET1	
84	20	48	3425	34	22	not done		DET1	
93	20	37	38	32	22	not done		NDET1	
97	19	33	49	41	19	not done		NDET1	
105	18	27	34	21	20	not done		NDET1	
76	18	34	39	32	19	not done		NDET1	
86	17	30	34	33	17	not done		NDET1	
104	16	37	3943	35	33	not done		DET1	
123	15	41	46	38	20	not done		NDET1	
103	13	27	37	30	19	not done		NDET1	
91	13	36	3275	26	28	not done		DET1	

(57) **Abstract**: We disclose a method of detecting chikungunya and dengue nucleic acids in a biological sample, the method comprising the steps of: (a) an amplification step in which chikungunya and dengue nucleic acids are amplified by chikungunya primers and dengue primers in a nucleic acid amplification reaction; and (b) a detection step in which amplified nucleic acids from (a) are hybridised to a chikungunya nucleic acid probe and a dengue nucleic acid probe in a nucleic acid hybridisation reaction. Primer and probe sequences capable of detecting chikungunya and dengue are also disclosed.

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