

Consensus nucleotide	Percentage of sequences with the consensus nucleotide (n=147)	Oligonucleotide role	'Original' assay primer or probe nucleotide	Percentage of sequences concordant with the primer or probe nucleotide
G	100%	Forward primer	G	100%
G	99%	Forward primer	G	99%
A	100%	Forward primer	A	100%
A	100%	Forward primer	T	0%
A	100%	Forward primer	A	100%
G	100%	Forward primer	G	100%
A	100%	Forward primer	A	100%
C	100%	Forward primer	C	100%
C	100%	Forward primer	C	100%
A	100%	Forward primer	A	100%
G	100%	Forward primer	G	100%
A	100%	Forward primer	A	100%
G	100%	Forward primer	G	100%
A	100%	Forward primer	A	100%
T	100%	Forward primer	T	100%
C	100%	Forward primer	C	100%
C	100%	Forward primer	C	100%
T	100%	Forward primer	T	100%
G	100%	Forward primer	G	100%
C	100%	Forward primer	C	100%
T	100%	Forward primer	T	100%
G	100%	Forward primer	G	100%
T	100%	Forward primer	T	100%
C	100%			
T	100%			
C	100%			
T	100%			
A	69%			
C	100%	Probe	C	100%
A	100%	Probe	A	100%
A	100%	Probe	G	0%
C	100%	Probe	C	100%
A	100%	Probe	A	100%
T	100%	Probe	T	100%
C	100%	Probe	C	100%
A	97%	Probe	A	97%
A	100%	Probe	T	0%
T	100%	Probe	T	100%
C	100%	Probe	C	100%
C	100%	Probe	C	100%
A	100%	Probe	A	100%

G	100%	Probe	G	100%
G	100%	Probe	G	100%
C	100%	Probe	C	100%
A	100%	Probe	A	100%
C	100%	Probe	C	100%
A	100%	Probe	A	100%
G	100%	Probe & Reverse primer	G*	100%
A	100%	Reverse primer	A*	100%
G	97%	Reverse primer	A* or G*	100%
C	100%	Reverse primer	C*	100%
G	100%	Reverse primer	G*	100%
C	100%	Reverse primer	C*	100%
C	100%	Reverse primer	C*	100%
G	78%	Reverse primer	A* or G*	100%
C	99%	Reverse primer	G* or C*	100%
A	81%	Reverse primer	A*	81%
A	100%	Reverse primer	A*	100%
G	100%	Reverse primer	A* or G*	100%
A	100%	Reverse primer	A*	100%
T	100%	Reverse primer	T*	100%
G	100%	Reverse primer	G*	100%
G	99%	Reverse primer	G*	99%
A	100%	Reverse primer	A*	100%
T	100%	Reverse primer	A* or T*	100%
T	100%	Reverse primer	T*	100%
G	99%	Reverse primer	G*	99%

Supplementary Table 1: The consensus sequence for the region amplified by the 'original' assay from 147 dengue serotype 4 sequences is shown, along with the percentage of sequences that carry the consensus nucleotide at each site. The two highlighted rows indicate the sites of mismatch with the 'original' probe.

* = reverse complement of the actual reverse primer(s) sequence

Sample name	Sample receipt date	Dengue Virus RNA status	Travel History
Denv 1	14/01/2016	POSITIVE	Indonesia
Denv 2	11/02/2016	POSITIVE	Indonesia
Denv 3	21/02/2016	POSITIVE	Thailand
Denv 4	19/02/2016	POSITIVE	Colombia
Denv 5	27/02/2016	POSITIVE - AMENDED RESULT: The above result has been amended since it was first issued.	Indonesia
Denv 6	30/03/2016	POSITIVE	Thailand
Denv 7	11/04/2016	POSITIVE	Malaysia
Denv 8	09/05/2016	POSITIVE	Jamaica
Denv 9	06/06/2016	POSITIVE	Brazil
Denv 10	26/06/2016	POSITIVE	India
Denv 11	26/06/2016	POSITIVE	Maldives
Denv 12	29/06/2016	POSITIVE	Bali
Denv 13	09/07/2016	POSITIVE	Bali
Denv 14	20/07/2016	POSITIVE	NK
Denv 15	27/07/2016	POSITIVE	Bali
Denv 16	02/08/2016	POSITIVE	Cambodia
Denv 17	20/07/2016	POSITIVE	NK
Denv 18	20/02/2016	POSITIVE	Thailand
Denv 19	04/04/2016	POSITIVE	Bali
Denv 20	30/06/2016	POSITIVE	Bali
Denv 21	24/03/2016	POSITIVE	Thailand

Supplementary Table 2: Selected sample details, where available and non-confidential. NK, not known. Samples #22-32 were obtained from residents of Brazil.