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Virus (strain), [Accession nr] ....|....|....  
 DENV2, (ZS01/01), [KR920365.1] TATGGTACATGTGG  
 ZIKV, (MR766), [MK105975.1] TCTGGTACATGTGG  
 JEV, (SA14), [MH258848.1] TTTGGTTCATGTGG  
 USUV, (SAAR-1776), [AY453412.1] TATGGTTCATGTGG  
 USUV, (Vienna2001), [NC\_006551.1] TATGGTTCATGTGG  
 WNV, (AnMg798), [DQ176636.2] TTTGGTTTATGTGG  
 WNV, (NY99), [NC\_009942.1] TTTGGTTCATGTGG  
 WNV, (SA93/01), [EF429198.1] TCTGGTTCATGTGG  
 WSLV, (SAH-177), [DQ859058.1] TCTGGTACATGTGG  
 WSLV, (AV259), [JN226796.1] TTTGGTACATGTGG  
 YFV, (85-82H), [U54798.1] TCTGGTACATGTGG  
 LIV, (369/T2), [NC\_001809.1] TCTGGTACATGTGG  
 TBEV, [NC\_001672.1] TTTGGTACATGTGG  
 LGTV, (TP21), [EU790644.1] TCTGGTACATGTGG  
 RFV, [NC\_039219.1] TATGGTACATGTGG  
 KADV, [NC\_033724.1] TCTGGTACATGTGG  
 Clustal Consensus \*\*\*\*\*

Key:

Highlight	Primer name	Position
NNNN	FlaviF1 RT-RPA F & FlaviF1	1 - 17
NNNN	WNV RT-RPA Probe 2	25 - 70
NNNN	WNV RT-RPA Probe 1	202 - 248
NNNN	WESS RT-RPA Probe	237 - 283
NNNN	WNV RT-RPA R	353 - 325
NNNN	WESS RT-RPA R	353 - 324
NNNN	FlaviR2	353 - 334

**Table S1. Information relating to virus isolates used in alignment**

<b>Virus</b>	<b>Genbank Accession nr</b>	<b>Strain</b>	<b>Country</b>	<b>Position of partial NS5 fragment (414bp)</b>
Dengue virus 2 (DENV2)	KR920365.1	Strain: ZS01/01	China	8590 – 9003
Zika virus (ZIKV)	MK105975.1	Strain: MR766	Uganda	8670 - 9083
Japanese encephalitis virus (JEV)	MH258848.1	Isolate: SA14	China	8703 - 9116
Usutu virus (USUV)	NC_006551.1	Vienna 2001	Austria	8710 - 9123
USUV	AY453412.1	Strain: SAAR-1776	SA	8710 - 9123
West Nile virus (WNV)	DQ176636.2	Madagascar-AnMg798	Madagascar	8709 - 9122
WNV	NC_009942.1	NY99	USA	8707 – 9120
WNV	EF429198.1	SA93/01	SA	8710 – 9123
Wesselsbron virus (WSLV)	DQ859058.1	SAH-177 99871-2	SA	8521 - 8934
WSLV	JN226796.1	AV259	SA	8639 - 9052
Yellow fever virus (YFV)	U54798.1	Strain: 85-82H	Ivory Coast	8660 - 9073
Louping Ill virus (LIV)	NC_001809.1	Strain: 369/T2	UK	8686 - 9099
Tick-borne encephalitis virus (TBEV)	NC_001672.1		Austria	8689 - 9102
Langat virus (LGTV)	EU790644.1	Strain: TP21	Malaysia	8687 - 9100
Royal Farm virus (RFV)	NC_039219.1		Afghanistan	8566 - 8979
Kadam virus (KADV)	NC_033724.1		Uganda	8524 - 8937