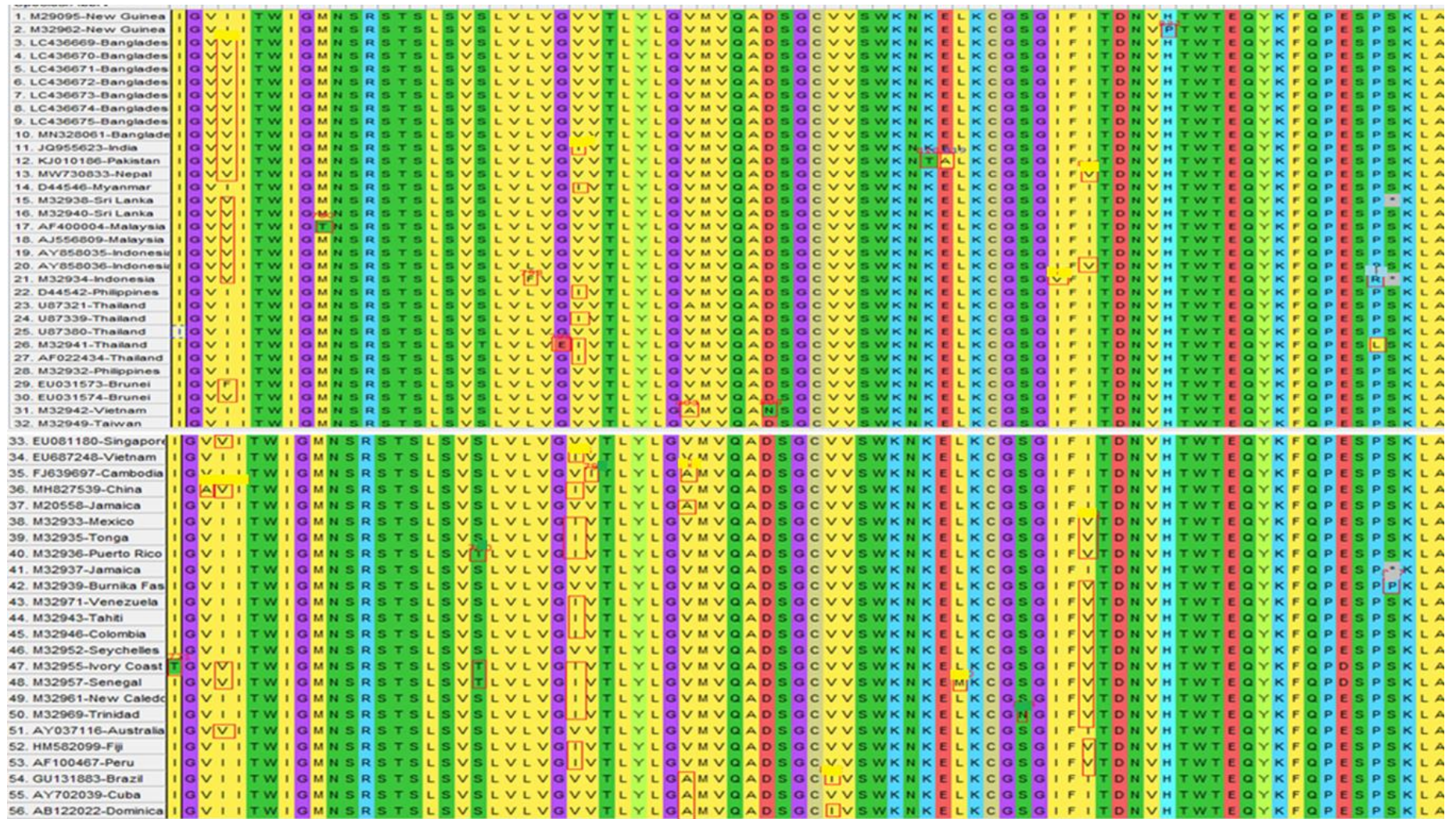


10	#H20095-New_Guinea_C_strain	ATA GGA GTC ATT ATC ACA TGG ATA GGA ATG AAT TCA CAC AGC ACC TCA CTG TCT GTG TCA	[ 60]	124	#H20095-New_Guinea_C_strain	TGC GTT GTT AGC TGG AAA AAC AAA GAA CTA AAG TGT GGC AGT GGG ATT TCT ATC ACA GAC	[180]
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12	#H246669-Bangladesh	...	[ 60]	126	#H246669-Bangladesh	...	[180]
13	#H246670-Bangladesh	...	[ 60]	127	#H246670-Bangladesh	...	[180]
14	#H246671-Bangladesh	...	[ 60]	128	#H246671-Bangladesh	...	[180]
15	#H246672-Bangladesh	...	[ 60]	129	#H246672-Bangladesh	...	[180]
16	#H246673-Bangladesh	...	[ 60]	130	#H246673-Bangladesh	...	[180]
17	#H246674-Bangladesh	...	[ 60]	131	#H246674-Bangladesh	...	[180]
18	#H246675-Bangladesh	...	[ 60]	132	#H246675-Bangladesh	...	[180]
19	#H218061-Bangladesh	...	[ 60]	133	#H218061-Bangladesh	...	[180]
20	#JQ955623-India	...	[ 60]	134	#JQ955623-India	...	[180]
21	#F010186-Pakistan	...	[ 60]	135	#F010186-Pakistan	...	[180]
22	#H073083-Bhgal	...	[ 60]	136	#H073083-Bhgal	...	[180]
23	#H44546-Myanmar	...	[ 60]	137	#H44546-Myanmar	...	[180]
24	#H20940-Bur_Lanka	...	[ 60]	138	#H20940-Bur_Lanka	...	[180]
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36	#AF022434-Thailand	...	[ 60]	150	#AF022434-Thailand	...	[180]
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43	#H0687248-Vietnam	...	[ 60]	157	#H0687248-Vietnam	...	[180]
44	#F639697-Cambodia	...	[ 60]	158	#F639697-Cambodia	...	[180]
45	#H0087733-China	...	[ 60]	159	#H0087733-China	...	[180]
46	#H20558-Jamaica	...	[ 60]	160	#H20558-Jamaica	...	[180]
47	#H20933-Mexico	...	[ 60]	161	#H20933-Mexico	...	[180]
48	#H20933-Tonga	...	[ 60]	162	#H20933-Tonga	...	[180]
49	#H20936-Fuente_Rico	...	[ 60]	163	#H20936-Fuente_Rico	...	[180]
50	#H20937-Jamaica	...	[ 60]	164	#H20937-Jamaica	...	[180]
51	#H20939-Burkina_Faso	...	[ 60]	165	#H20939-Burkina_Faso	...	[180]
52	#H20971-Venezuela	...	[ 60]	166	#H20971-Venezuela	...	[180]
53	#H20943-Tahiti	...	[ 60]	167	#H20943-Tahiti	...	[180]
54	#H20946-Colombia	...	[ 60]	168	#H20946-Colombia	...	[180]
55	#H20952-Seychelles	...	[ 60]	169	#H20952-Seychelles	...	[180]
56	#H20955-Ivory_Coast	...	[ 60]	170	#H20955-Ivory_Coast	...	[180]
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58	#H20961-New_Caledonia	...	[ 60]	172	#H20961-New_Caledonia	...	[180]
59	#H20969-Trinidad	...	[ 60]	173	#H20969-Trinidad	...	[180]
60	#AY037116-Australia	...	[ 60]	174	#AY037116-Australia	...	[180]
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63	#H013883-Brazil	...	[ 60]	177	#H013883-Brazil	...	[180]
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81	#H202039-Cuba	...	[ 60]	195	#H202039-Cuba	...	[180]
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102	#H0087733-China	...	[120]	216	#H0087733-China	...	[240]
103	#H20558-Jamaica	...	[120]	217	#H20558-Jamaica	...	[240]
104	#H20933-Mexico	...	[120]	218	#H20933-Mexico	...	[240]
105	#H20933-Tonga	...	[120]	219	#H20933-Tonga	...	[240]
106	#H20936-Fuente_Rico	...	[120]	220	#H20936-Fuente_Rico	...	[240]
107	#H20937-Jamaica	...	[120]	221	#H20937-Jamaica	...	[240]
108	#H20939-Burkina_Faso	...	[120]	222	#H20939-Burkina_Faso	...	[240]
109	#H20971-Venezuela	...	[120]	223	#H20971-Venezuela	...	[240]
110	#H20943-Tahiti	...	[120]	224	#H20943-Tahiti	...	[240]
111	#H20946-Colombia	...	[120]	225	#H20946-Colombia	...	[240]
112	#H20952-Seychelles	...	[120]	226	#H20952-Seychelles	...	[240]
113	#H20955-Ivory_Coast	...	[120]	227	#H20955-Ivory_Coast	...	[240]
114	#H20957-Senegal	...	[120]	228	#H20957-Senegal	...	[240]
115	#H20961-New_Caledonia	...	[120]	229	#H20961-New_Caledonia	...	[240]
116	#H20969-Trinidad	...	[120]	230	#H20969-Trinidad	...	[240]
117	#AY037116-Australia	...	[120]	231	#AY037116-Australia	...	[240]
118	#H0082099-Fiji	...	[120]	232	#H0082099-Fiji	...	[240]
119	#AF100467-Peru	...	[120]	233	#AF100467-Peru	...	[240]
120	#H013883-Brazil	...	[120]	234	#H013883-Brazil	...	[240]
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169	#H202039-Cuba	...	[120]	283	#H202039-Cuba	...	[240]
170	#H202039-Cuba	...	[120]	284	#		





**Supplementary Fig. 1. (A).** 240bp DEN-2 E/NS1 nucleotide sequences of different geographical regions of the world obtained from GenBank and aligned in MEGA11. **(B).** Common and random amino acid substitutions are shown in red marked blocks here in all the 56 DEN-2 E/NS1 junction amino acid sequences.



10	#KU050695-Philippines(prototype)	AGT GGA GTC TCC TGG ATA ATG AAA ATT GGA ATA GGT GTC CTC TTA ACC TGG ATA GGG TGG AAT TCA AAA AAC ACT TCT	[ 78	118	#KU050695-Philippines(prototype)	TAC AAA TTT CAA GCA GAC TCC CCC AAA AGA CTG GCA ACA GCC ATT G	[280]
11	#LC436676-Bangladesh	...	[ 78	119	#LC436676-Bangladesh	...	[280]
12	#LC436677-Bangladesh	...	[ 78	120	#LC436677-Bangladesh	...	[280]
13	#AY496871-Bangladesh	G...	[ 78	121	#AY496871-Bangladesh	...	[280]
14	#AY496872-Bangladesh	G...	[ 78	122	#AY496872-Bangladesh	...	[280]
15	#AY496873-Bangladesh	G...	[ 78	123	#AY496873-Bangladesh	...	[280]
16	#AY496874-Bangladesh	G...	[ 78	124	#AY496874-Bangladesh	...	[280]
17	#AY496875-Bangladesh	G...	[ 78	125	#AY496875-Bangladesh	...	[280]
18	#AY496878-Bangladesh	G...	[ 78	126	#AY496878-Bangladesh	...	[280]
19	#AY496876-Bangladesh	G...	[ 78	127	#AY496876-Bangladesh	...	[280]
20	#AY496877-Bangladesh	G...	[ 78	128	#AY496877-Bangladesh	...	[280]
21	#FJ644564-India	...	[ 78	129	#FJ644564-India	...	[280]
22	#AY770511-India	...	[ 78	130	#AY770511-India	...	[280]
23	#AY099336-Sri Lanka	...	[ 78	131	#AY099336-Sri Lanka	...	[280]
24	#AF317645-China	...	[ 78	132	#AF317645-China	...	[280]
25	#AF029794-Malaysia	...	[ 78	133	#AF029794-Malaysia	...	[280]
26	#AF029795-Malaysia	...	[ 78	134	#AF029795-Malaysia	...	[280]
27	#AY766104-Singapore	...	[ 78	135	#AY766104-Singapore	...	[280]
28	#KJ737430-Thailand	...	[ 78	136	#KJ737430-Thailand	...	[280]
29	#AY676353-Thailand	...	[ 78	137	#AY676353-Thailand	...	[280]
30	#DQ675520-Indonesia	...	[ 78	138	#DQ675520-Indonesia	...	[280]
31	#OK469353-Thailand	...	[ 78	139	#OK469353-Thailand	...	[280]
32	#MM946984-Thailand	...	[ 78	140	#MM946984-Thailand	...	[280]
33	#KY586801-Thailand	...	[ 78	141	#KY586801-Thailand	...	[280]
34	#AY679147-Brazil	...	[ 78	142	#AY679147-Brazil	...	[280]
35	#AY099337-Martinique	...	[ 78	143	#AY099337-Martinique	...	[280]
36	#EU482458-Vietnam	...	[ 78	144	#EU482458-Vietnam	...	[280]
37	#GQ868629-Cambodia	...	[ 78]	145	#GQ868629-Cambodia	...	[280]
38	#AY744685-French_Polynesia	...	[ 78]	146	#AY744685-French_Polynesia	...	[280]
39	#FJ882575-Mozambique	...	[ 78]	147	#FJ882575-Mozambique	...	[280]
40	#GU131954-Colombia	...	[ 78]	148	#GU131954-Colombia	...	[280]
41	#HQ166034-Nicaragua	...	[ 78]	149	#HQ166034-Nicaragua	...	[280]
42	#FJ373304-Venezuela	...	[ 78]	150	#FJ373304-Venezuela	...	[280]
43	#GQ868616-Saint_Lucia	...	[ 78]	151	#GQ868616-Saint_Lucia	...	[280]
44	#FJ547071-Puerto_Rico	...	[ 78]	152	#FJ547071-Puerto_Rico	...	[280]
46	#KU050695-Philippines(prototype)	ATG TCA TTT TCA TGC ATT GCG ATA GGA ATC ATT ACA CTC TAT CCG GGA GTC GTG GTG CAA GCT GAC ATG GGG TGT GTC	[156]				
47	#LC436676-Bangladesh	...	[156]				
48	#LC436677-Bangladesh	...	[156]				
49	#AY496871-Bangladesh	...	[156]				
50	#AY496872-Bangladesh	...	[156]				
51	#AY496873-Bangladesh	...	[156]				
52	#AY496874-Bangladesh	...	[156]				
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54	#AY496878-Bangladesh	...	[156]				
55	#AY496876-Bangladesh	...	[156]				
56	#AY496877-Bangladesh	...	[156]				
57	#FJ644564-India	...	[156]				
58	#AY770511-India	...	[156]				
59	#AY099336-Sri Lanka	...	[156]				
60	#AF317645-China	...	[156]				
61	#AF029794-Malaysia	...	[156]				
62	#AF029795-Malaysia	...	[156]				
63	#AY766104-Singapore	...	[156]				
64	#KJ737430-Thailand	...	[156]				
65	#AY676353-Thailand	...	[156]				
66	#DQ675520-Indonesia	...	[156]				
67	#OK469353-Thailand	...	[156]				
68	#MM946984-Thailand	...	[156]				
69	#KY586801-Thailand	...	[156]				
70	#AY679147-Brazil	...	[156]				
71	#AY099337-Martinique	...	[156]				
72	#EU482458-Vietnam	...	[156]				
109	#GQ868629-Cambodia	...	[234]				
110	#AY744685-French_Polynesia	...	[234]				
111	#FJ882575-Mozambique	...	[234]				
112	#GU131954-Colombia	...	[234]				
113	#HQ166034-Nicaragua	...	[234]				
114	#FJ373304-Venezuela	...	[234]				
115	#GQ868616-Saint_Lucia	...	[234]				
116	#FJ547071-Puerto_Rico	...	[234]				



1. KU050695-Philippines	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I	
2. LC436676-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
3. LC436677-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
4. AY496871-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
5. AY496872-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
6. AY496873-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
7. AY496874-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
8. AY496875-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
9. AY496878-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
10. AY496876-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
11. AY496877-Bangladesh	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	T	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
12. FJ644564-India	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
13. AY770511-India	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
14. AY099336-Sri Lanka	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
15. AF317645-China	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I	
16. AF029794-Malaysia	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
17. AF029795-Malaysia	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
18. AY766104-Singapore	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
19. KJ737430-Thailand	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
20. AY676353-Thailand	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
21. DQ675520-Indonesia	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
22. OK469353-Thailand	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
23. MW946984-Thailand	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
24. KY586801-Thailand	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	V	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S	G	I	F	V	T	N	E	V	H	T	W	T	E	Q	Y	K	F	Q	A	D	S	P	K	R	L	A	T	A	I
25. AY679147-Brazil	S	G	V	S	W	I	M	K	I	G	I	G	V	L	L	T	W	I	G	L	N	S	K	N	T	S	M	S	F	S	C	I	A	I	G	I	I	T	L	Y	L	G	A	V	V	Q	A	D	M	G	C	V	I	N	W	K	G	K	E	L	K	C	G	S																													