

Table S1: Errors and discrepancies found in each dengue serotype (DV1, DV2, DV3 and DV4) data entries collected from the NCBI Entrez protein database.

DV1 entry	Error/discrepancy description
AAK29447	<ul style="list-style-type: none"> • The position of the C terminal end of the protein NS4B is mis-annotated. Instead of 2293 it should be 2493. Evidence by sequence similarity to other strains. • The position of the N-terminal of the protein NS5 is mis-annotated. Instead of 2294 it should be 2494. Evidence by sequence similarity to other strains.
A42551	<ul style="list-style-type: none"> • The C-terminal position of the precursor membrane protein region has been mis-annotated. It should be 205..280 instead of 205..281. Evidence by sequence similarity to other strains. • The N-terminal position of the envelope protein region has been mis-annotated. It should be 281..774 instead of 282..774. Evidence by sequence similarity to other strains. • The C-terminal position of the NS1 protein region has been mis-annotated. It should be 775..1126 instead of 775..1127. Evidence by sequence similarity to other strains. • The N-terminal position of the NS2a protein region has been mis-annotated. It should be 1127..1344 instead of 1128..1344. Evidence by sequence similarity to other strains.
P33478	<ul style="list-style-type: none"> • The C-terminal position of the NS1 protein region has been mis-annotated. It should be 775..1126 instead of 775..1127. Evidence for this can be found in Fu <i>et al.</i>, (1992). • The N-terminal position of the NS2a protein region has been mis-annotated. It should be 1127..1344 instead of 1128..1344. Evidence for this can be found in Fu <i>et al.</i>, (1992).
AAN03445	<ul style="list-style-type: none"> • Under the field “Features”, we see the following statement: Protein 1..3392 /product="envelope glycoprotein" The statement is not correct because envelope glycoprotein is only a part of the whole polyprotein. Instead of envelope glycoprotein it should have been “polyprotein” as in entry AAO47361 (GI:34596500)
AAB70694	<ul style="list-style-type: none"> • The N-terminal position of the capsid protein region has been mis-annotated. It should be 1..114 instead of 2..114. Evidence by sequence similarity to other strains.
AAB70696	<ul style="list-style-type: none"> • The N-terminal position of the capsid protein region has been mis-annotated. It should be 1..114 instead of 2..114. Evidence by sequence similarity to other strains. • The C-terminal position of the precursor membrane protein region has been mis-annotated. It should be 115..280 instead of 115..278. Evidence by sequence similarity to other strains. • The C-terminal position of the mature membrane protein region has been mis-annotated. It should be 206..280 instead of 206..278. Evidence by sequence similarity to other strains. • The N-terminal position of the envelope protein region has been mis-annotated. It should be 281..775 instead of 279..775.

	Evidence by sequence similarity to other strains.
AAB70695	<ul style="list-style-type: none"> • The N-terminal position of the capsid protein region has been mis-annotated. It should be 1..114 instead of 2..114. Evidence by sequence similarity to other strains. • The C-terminal position of the precursor membrane protein region has been mis-annotated. It should be 115..280 instead of 115..278. Evidence by sequence similarity to other strains. • The C-terminal position of the mature membrane protein region has been mis-annotated. It should be 206..280 instead of 206..278. Evidence by sequence similarity to other strains. • The N-terminal position of envelope protein region has been mis-annotated. It should be 281..775 instead of 279..775. Evidence by sequence similarity to other strains.
DV2 entry	Error/discrepancy description
AAL00888	<ul style="list-style-type: none"> • The position of the C-terminal of the capsid protein is mis-annotated. It should be 1..114 instead of 1..150. Evidence by sequence similarity to other strains. • The position of the N-terminal of the precursor membrane protein is mis-annotated. It should be 115..280 instead of 151..280. Evidence by sequence similarity to other strains.
CAD31751	<ul style="list-style-type: none"> • The protein 115..280 should be annotated as prM protein instead of envelope protein. • The protein 281..774 should be annotated as envelope protein instead of prM protein. • The position of the C-terminal of the envelope protein is mis-annotated. It should be 281..775 instead of 281..774. Evidence by sequence similarity to other strains. • The position of the N-terminal of the NS1 protein is mis-annotated. It should be 776..1127 instead of 775..1127. Evidence by sequence similarity to other strains. • The position of the C-terminal of the envelope protein is mis-annotated. It should be 1346..1475 instead of 1346..1474. Evidence by sequence similarity to other strains. • The position of the N-terminal of the NS3 protein is mis-annotated. It should be 1476..2093 instead of 1475..2093. Evidence by sequence similarity to other strains.
AAA42941	<ul style="list-style-type: none"> • The N-terminal position of the capsid protein region has been mis-annotated. It should be 1..114 instead of 2..114. Evidence by sequence similarity to other strains. • The position of the C-terminal of the NS4a protein is mis-annotated. It should be 2094..2243 instead of 2094..2379. Evidence by sequence similarity to other strains. • The position of the N-terminal of the NS4b protein is mis-annotated. It should be 2244..2491 instead of 2380..2491. Evidence by sequence similarity to other strains.
DV3 entry	Error/discrepancy description
P27915, AAA99437 and GNWVD3	<ul style="list-style-type: none"> • All the three entries have NS1/NS2a and NS4a/NS4b junctions mis-annotated; the amino acid sequence at these junctions in the three entries were not similar to those

	described in Osatomi <i>et al.</i> (1990).
DV4 entry	Error/discrepancy description
AAB28474	<ul style="list-style-type: none"> • The position of the C-terminal of the capsid protein is mis-annotated. It should be 1..113 instead of 1..110. Evidence by sequence similarity to other strains. • The position of the N-terminal of the precursor membrane protein is mis-annotated. It should be 114..279 instead of 112..279. Evidence by sequence similarity to other strains.
AAA42964	<ul style="list-style-type: none"> • The position of the C-terminal of the envelope protein is mis-annotated. It should be 280..774 instead of 280..733. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS1 protein is mis-annotated. It should be 775..1126 instead of 734..1184. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS2a protein is mis-annotated. It should be 1127..1344 instead of 1185..1343. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS2b protein is mis-annotated. It should be 1345..1474 instead of 1344..1473. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS3 protein is mis-annotated. It should be 1475..2092 instead of 1474..2091. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS4a protein is mis-annotated. It should be 2093..2242 instead of 2092..2374. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS4b protein is mis-annotated. It should be 2243..2487 instead of 2092..2374. Evidence by sequence similarity to other strains. • The position of both the N and C termini of the NS5 protein is mis-annotated. It should be 2488..3387 instead of 2487..3386. Evidence by sequence similarity to other strains.
P09866	<ul style="list-style-type: none"> • The position of the C-terminus of the NS1 protein is mis-annotated. It should be 775..1126 instead of 775..1185. Evidence by sequence similarity to other strains. • The position of the N-terminus of the NS2a protein is mis-annotated. It should be 1127..1344 instead of 1186..1344. Evidence by sequence similarity to other strains. • The position of the C-terminus of the NS4a protein is mis-annotated. It should be 2093..2242 instead of 2093..2375. Evidence by sequence similarity to other strains. • The position of the N-terminus of the NS4b protein is mis-annotated. It should be 2243..2487 instead of 2376..2487. Evidence by sequence similarity to other strains.
GNWVDF	<ul style="list-style-type: none"> • The position of the C-terminus of the NS1 protein is mis-annotated. It should be 774..1125 instead of 774..1184. Evidence by sequence similarity to other strains. • The position of the N-terminus of the NS2a protein is mis-annotated. It should be 1126..1343 instead of 1185..1343.

	<p>Evidence by sequence similarity to other strains.</p> <ul style="list-style-type: none">• The position of the C-terminus of the NS4a protein is mis-annotated. It should be 2092..2241 instead of 2092..2374. <p>Evidence by sequence similarity to other strains.</p> <ul style="list-style-type: none">• The position of the N-terminus of the NS4b protein is mis-annotated. It should be 2242..2486 instead of 2375..2486. <p>Evidence by sequence similarity to other strains.</p>
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References

Osatomi K, Sumiyoshi H: **Complete nucleotide sequence of dengue type 3 virus genome RNA**. *Virology* 1990, **176**(2):643-647.

Fu J, Tan BH, Yap EH, Chan YC, Tan YH: **Full-length cDNA sequence of dengue type 1 virus (Singapore strain S275/90)**. *Virology* 1992, **188**(2):953-958.