

Serotype: ASIA1	Report date: 11/07/2007
WRL Ref No: NKR/2/2007	Reported by: N.J. Knowles
Sender Ref: none	Checked by: D.P. King
Date collected: 2007	
Date received by WRLFMD: 06/07/2007	Topotype: none defined
Date received for sequencing: 09/07/2007	Genotype/strain: none designated
Species: Cattle	Sequence filenames: NKR07A02.SEQ & NKR07B02
Material used: BTy1 and RS1	
Region sequenced: VP1	Date sequence last updated: 11/07/2007
RT-PCR primers: AS1-1C613F/EUR-2B52R	Total no. of comparisons: 313
No. of Nt determined: 633	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 5 days
Gene length: 633	Sequencing time: 2 days

Comments: Identical sequences were found for BTy1 and IB-RS-2/1 passages.

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/Khabarovsk/RUS/2005†	RUS05-AB	633	622	0	98.26	1.74
2	As1/Amursky/RUS/2005 [DQ121401]	RUS05-AA	633	620	0	97.95	2.05
3	As1/Amursky/RUS/Dec2005†	RUS05-AE	633	620	0	97.95	2.05
4	As1/Beijing/CHA/2005 (EF185303)	CHA05-AC	633	620	0	97.95	2.05
5	As1/Khabarovsk/RUS/Dec2005†	RUS05-AD	633	620	0	97.95	2.05
6	As1/MOG/2005†	MOG05-AA	633	620	0	97.95	2.05
7	As1/Prymorsky/RUS/2005†	RUS05-AC	633	620	0	97.95	2.05
8	As1/Chita/RUS/2006†	RUS06-AA	633	619	0	97.79	2.21
9	As1/Qinghai/CHA/2005 (EF187272)	CHA05-AG	633	619	0	97.79	2.21
10	As1/Gansu/CHA/2005 (EF185304)	CHA05-AF	633	617	0	97.47	2.53

#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/Kimron/ISR/57 (AY593797)	ISR57KIM	633	567	0	89.57	10.43
2	As1/IND/63/72 [Y09949]	IND72B63	630	560	0	88.89	11.11
3	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	545	0	86.1	13.9
4	As1/IND/8/79	IND79-08	633	543	0	85.78	14.22
5	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	543	0	85.78	14.22
6	As1/Shamir/ISR/89	ISR89--A	633	541	0	85.47	14.53
7	As1/PAK/1/54	PAK54-01	630	537	0	85.24	14.76
8	As1/TAI/85 vs	TAI85-AA	633	536	0	84.68	15.32
9	As1/CAM/9/80	CAM80-09	633	525	0	82.94	17.06

nt, nucleotides

\*, not a WRLFMD reference number

†, sequenced determined at ARRIAH, Russia.

# Report on FMDV Asia 1 from North Korea in 2007

Software: MEGA 3.1

No. of Taxa : 106

Data File : n:\evd\meg\db\fmdv\asia1\NKR2007a.meg

Data Title : North Korea 2007

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

Method : Neighbor-Joining

Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)

Include Sites : =====

Gaps/Missing Data : Pairwise Deletion

Codon Positions : 1st+2nd+3rd+Noncoding

Substitution Model : =====

Model : Nucleotide: Kimura 2-parameter

Substitutions to Include : d: Transitions + Transversions

Pattern among Lineages : Same (Homogeneous)

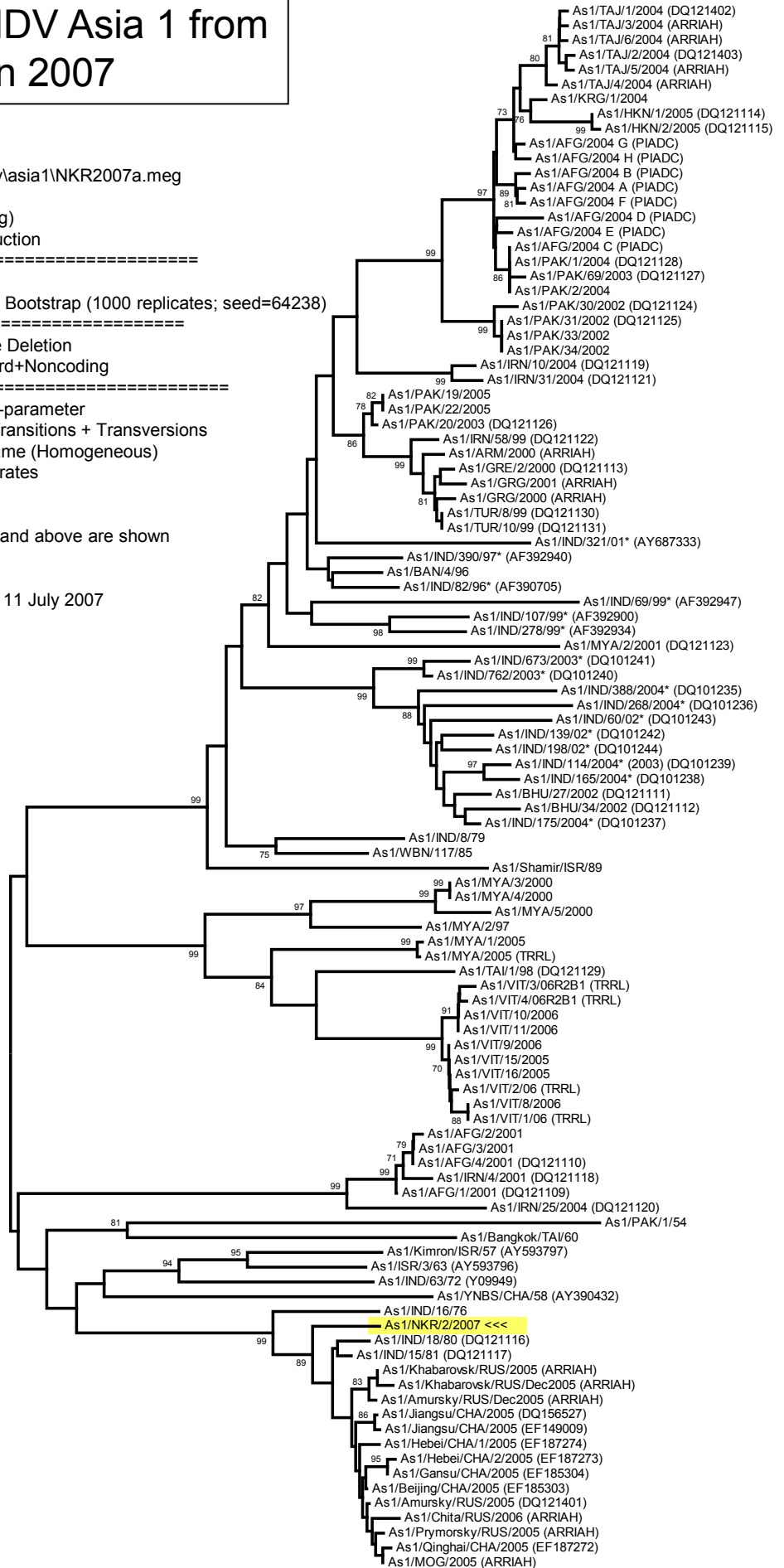
Rates among sites : Uniform rates

No. of Sites : 636

No Of Bootstrap Reps = 1000

Only Bootstrap values of 70% and above are shown

N.J. Knowles & J. Wadsworth, 11 July 2007



0.02