



INSTITUTE FOR ANIMAL HEALTH
Director: Professor Martin W. Shirley, PhD
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2010/00001

Sender Details:



Date Received: 18th January 2010

Country of Origin: Senegal

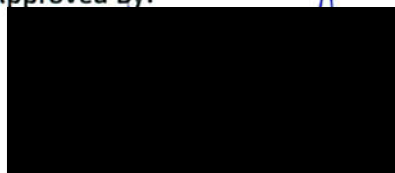
Date Reported: 2nd February 2010

Dear Dr. Yaya Thiongane,

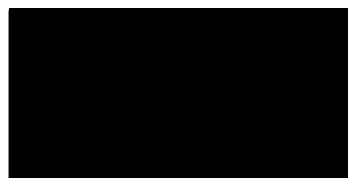
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

<http://www.wrlfmd.org/>

Results Approved By:



Official Stamp:



Date:

2/2/10



To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.wilson@bbsrc.ac.uk)

WRLFMD Genotyping Report Form

Serotype: SAT2 WRLFMD Ref No: SEN/27/2009 Batch No: WRLFMD/2010/00001 Sender Ref: 2 Location: Ross Bethio, St. Louis, Senegal Date collected: 09/10/2009 Date received by WRLFMD: 18/01/2010 Date received for sequencing: 22/01/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: SAT2-1C445F/SAT-2B208R SAT2-P1-1223F/SAT-2B208R	Report date: 02/02/2010 Reported by: N.J. Knowles Checked by: J.M. Hammond Topotype: VII Genotype/strain: Unnamed Sequence filename: SEN09-27.SEQ Date sequence last updated: 02/02/2010 No. of Nt determined: 648 No. of ambiguities: 0 Gene length: 648 Total no. of comparisons: 453 Min. no. of nt for comparison: 400 Total turn-around time: 15 days Sequencing time: 11 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT2/LIB/1/2003	LIB03-01	418	394	0	94.26	5.74	VII	unnamed
2	SAT2/LIB/7/2003	LIB03-07	418	394	0	94.26	5.74	VII	unnamed
3	SAT2/NGR/15/2005	NGR05-15	648	610	0	94.14	5.86	VII	unnamed
4	SAT2/CAR/P22/2000 (FKE 69/8)	CAR00-AQ	410	375	8	91.46	8.54	VII	unnamed
5	SAT2/NIG/1/2008	NIG08-01	648	591	0	91.20	8.80	VII	unnamed
6	SAT2/NIG/2/2008	NIG08-02	648	591	0	91.20	8.80	VII	unnamed
7	SAT2/NIG/3/2008	NIG08-03	648	591	0	91.20	8.80	VII	unnamed
8	SAT2/NIG/4/2008	NIG08-04	648	591	0	91.20	8.80	VII	unnamed
9	SAT2/NIG/8/2008	NIG08-08	648	591	0	91.20	8.80	VII	unnamed
10	SAT2/CAR/P7/2000 (BRO 35/10)	CAR00-AA	418	381	0	91.15	8.85	VII	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT2/SAU/6/2000 (AF367135)	SAU00A06	647	587	1	90.73	9.27	VII	unnamed
2	SAT2/CAR/8/2005	CAR05-08	648	582	0	89.81	10.19	VII	unnamed
3	SAT2/ZAI/1/74 (DQ009737)	ZAI74-AA	642	475	0	73.99	26.01	VIII	unnamed
4	SAT2/ETH/2/91 (AY343938)	ETH91-AB	648	475	0	73.30	26.70	XIV	unnamed
5	SAT2/KEN/3/57 (AJ251473)	KEN57G03	648	473	0	72.99	27.01	IX	unnamed
6	SAT2/KEN/2/84 (AY343941)	KEN84-AC	648	471	0	72.69	27.31	IX	unnamed
7	SAT2/ZAI/1/82 (AF367100)	ZAI82-01	647	470	1	72.64	27.36	X	unnamed
8	SAT2/RWA/1/2000* (AF367134)	RWA00-01	648	469	0	72.38	27.62	VIII	unnamed
9	SAT2/UGA/19/98 (AY343969)	UGA98-AA	648	469	0	72.38	27.62	X	unnamed
10	SAT2/SUD/6/77 (AY343939)	SUD77-AA	648	467	0	72.07	27.93	XIII	unnamed
nt, nucleotides *, not a WRLFMD reference number Assembled with Report Generator v2.9									

Report on FMDV SAT2 in Senegal in 2009

Batch: WRLFMD/2010/00001

Software: MEGA 4.0

No. of Taxa : 287

Data File :

n:\evd\megadb\fmdv\sat2\SEN2009a.meg

Data Title : SAT2 Senegal 2009

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference :

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=46980)

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 : 651

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 02 February 2010

