



INSTITUTE FOR ANIMAL HEALTH

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FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2012/00024

Sender Details:



Date Received: 29th June 2012

Country of Origin: Kenya

Date Reported: 18th July 2012

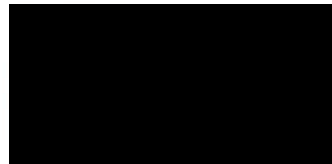
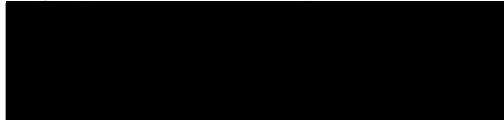
Dear Dr EC Chepkwony

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/>

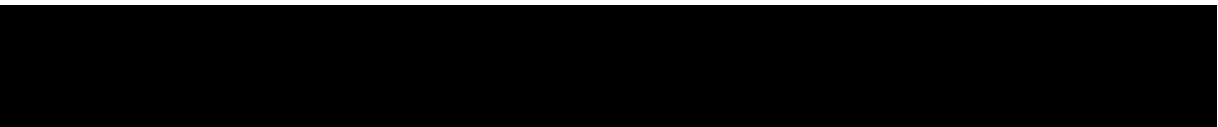
Results Approved By:

Official Stamp:



Date:

20/7/12



A UKAS accredited testing laboratory No. 4025.

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: gareth.shimmon@iah.ac.uk. IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey here: <http://www.surveymonkey.com/s/WRLFMD>

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 18 July 2012

FMDV type O

Country: Kenya

Period: 2011

No. of samples: 6

BATCH: WRLFMD/2012/00024



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: KEN/4/2011 Batch No: WRLFMD/2012/00024 Sender Ref: K24/11 Location: Juja, Thika West, Central Province, Kenya Date collected: 02/02/2011 Date received by WRLFMD: 29/06/2012 Date received for sequencing: 11/07/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 17/07/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-2 Genotype/strain: unnamed Sequence filename: KEN11-04.SEQ Date sequence last updated: 13/07/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3298 Min. no. of nt for comparison: 600 Total turn-around time: 18 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/148/2010	KEN10148	639	633	0	99.06	0.94	EA-2	Unnamed
2	O/KEN/1/2011	KEN11-01	639	632	0	98.90	1.10	EA-2	Unnamed
3	O/KEN/11/2011	KEN11-11	639	632	0	98.90	1.10	EA-2	unnamed
4	O/KEN/6/2011	KEN11-06	639	632	0	98.90	1.10	EA-2	unnamed
5	O/KEN/152/2010	KEN10152	639	631	0	98.75	1.25	EA-2	Unnamed
6	O/KEN/5/2011	KEN11-05	639	628	0	98.28	1.72	EA-2	unnamed
7	O/K31/05* (HM756623)	KEN05-AB	639	611	0	95.62	4.38	EA-2	Unnamed
8	O/KEN/26/2005	KEN05-26	639	611	0	95.62	4.38	EA-2	unnamed
9	O/KEN/30/2004	KEN04-30	639	610	0	95.46	4.54	EA-2	unnamed
10	O/K6/07* (HM756630)	KEN07-AB	639	607	0	94.99	5.01	EA-2	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	O/KEN/5/2002 (DQ165073)	KEN02-05	639	595	0	93.11	6.89	EA-2	Unnamed
2	O/UGA/3/2002 (DQ165077)	UGA02-03	639	581	0	90.92	9.08	EA-2	unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	575	0	89.98	10.02	EA-2	unnamed
4	O/TAN/2/2004	TAN04-02	639	572	0	89.51	10.49	EA-2	unnamed
5	O/K40/84*	KEN84-40	639	551	0	86.23	13.77	EA-1	unnamed
6	O/UAE/4/2008	UAE08-04	636	547	0	86.01	13.99	ME-SA	Ind-2001c
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	546	0	85.45	14.55	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	544	0	85.13	14.87	ME-SA	Ind-2001a
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	544	0	85.13	14.87	ME-SA	Ind-2001b
10	O/IRN/31/2009	IRN09-31	639	543	0	84.98	15.02	ME-SA	PanAsia-2 ^{FAR-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: KEN/5/2011 Batch No: WRLFMD/2012/00024 Sender Ref: K32/11 Location: Kagunda, Mirangine, Rift Valley, Kenya Date collected: 15/02/2011 Date received by WRLFMD: 29/06/2012 Date received for sequencing: 11/07/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 17/07/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-2 Genotype/strain: unnamed Sequence filename: KEN11-05.SEQ Date sequence last updated: 13/07/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3298 Min. no. of nt for comparison: 600 Total turn-around time: 18 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/148/2010	KEN10148	639	632	0	98.90	1.10	EA-2	Unnamed
2	O/KEN/11/2011	KEN11-11	639	631	0	98.75	1.25	EA-2	unnamed
3	O/KEN/6/2011	KEN11-06	639	631	0	98.75	1.25	EA-2	unnamed
4	O/KEN/152/2010	KEN10152	639	630	0	98.59	1.41	EA-2	Unnamed
5	O/KEN/1/2011	KEN11-01	639	629	0	98.44	1.56	EA-2	Unnamed
6	O/KEN/4/2011	KEN11-04	639	628	0	98.28	1.72	EA-2	unnamed
7	O/K31/05* (HM756623)	KEN05-AB	639	612	0	95.77	4.23	EA-2	Unnamed
8	O/KEN/26/2005	KEN05-26	639	612	0	95.77	4.23	EA-2	unnamed
9	O/KEN/30/2004	KEN04-30	639	611	0	95.62	4.38	EA-2	unnamed
10	O/K6/07* (HM756630)	KEN07-AB	639	610	0	95.46	4.54	EA-2	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	O/KEN/5/2002 (DQ165073)	KEN02-05	639	591	0	92.49	7.51	EA-2	Unnamed
2	O/UGA/3/2002 (DQ165077)	UGA02-03	639	578	0	90.45	9.55	EA-2	unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	572	0	89.51	10.49	EA-2	unnamed
4	O/TAN/2/2004	TAN04-02	639	569	0	89.05	10.95	EA-2	unnamed
5	O/K40/84*	KEN84-40	639	553	0	86.54	13.46	EA-1	unnamed
6	O/UAE/4/2008	UAE08-04	636	546	0	85.85	14.15	ME-SA	Ind-2001c
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	545	0	85.29	14.71	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	544	0	85.13	14.87	ME-SA	Ind-2001a
9	O/IRN/31/2009	IRN09-31	639	543	0	84.98	15.02	ME-SA	PanAsia-2 ^{FAR-09}
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	543	0	84.98	15.02	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: KEN/6/2011 Batch No: WRLFMD/2012/00024 Sender Ref: K33/11 Location: Chepseon, Rongai, Rift Valley, Kenya Date collected: 19/02/2011 Date received by WRLFMD: 29/06/2012 Date received for sequencing: 11/07/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 17/07/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-2 Genotype/strain: unnamed Sequence filename: KEN11-06.SEQ Date sequence last updated: 16/07/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3298 Min. no. of nt for comparison: 600 Total turn-around time: 18 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/148/2010	KEN10148	639	638	0	99.84	0.16	EA-2	Unnamed
2	O/KEN/152/2010	KEN10152	639	636	0	99.53	0.47	EA-2	Unnamed
3	O/KEN/11/2011	KEN11-11	639	635	0	99.37	0.63	EA-2	unnamed
4	O/KEN/1/2011	KEN11-01	639	633	0	99.06	0.94	EA-2	Unnamed
5	O/KEN/4/2011	KEN11-04	639	632	0	98.90	1.10	EA-2	unnamed
6	O/KEN/5/2011	KEN11-05	639	631	0	98.75	1.25	EA-2	unnamed
7	O/K31/05* (HM756623)	KEN05-AB	639	614	0	96.09	3.91	EA-2	Unnamed
8	O/KEN/26/2005	KEN05-26	639	614	0	96.09	3.91	EA-2	unnamed
9	O/KEN/30/2004	KEN04-30	639	613	0	95.93	4.07	EA-2	unnamed
10	O/K6/07* (HM756630)	KEN07-AB	639	612	0	95.77	4.23	EA-2	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	O/KEN/5/2002 (DQ165073)	KEN02-05	639	597	0	93.43	6.57	EA-2	Unnamed
2	O/UGA/3/2002 (DQ165077)	UGA02-03	639	583	0	91.24	8.76	EA-2	unnamed
3	O/TAN/2/2004	TAN04-02	639	575	0	89.98	10.02	EA-2	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	574	0	89.83	10.17	EA-2	unnamed
5	O/K40/84*	KEN84-40	639	553	0	86.54	13.46	EA-1	unnamed
6	O/UAE/4/2008	UAE08-04	636	548	0	86.16	13.84	ME-SA	Ind-2001c
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	548	0	85.76	14.24	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	546	0	85.45	14.55	ME-SA	Ind-2001a
9	O/IRN/31/2009	IRN09-31	639	545	0	85.29	14.71	ME-SA	PanAsia-2 ^{FAR-09}
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	545	0	85.29	14.71	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 17/07/2012
WRLFMD Ref No: KEN/11/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00024	Checked by: D.P. King
Sender Ref: K47/11	
Location: Baring Central, Rift Valley, Kenya	Topotype: EA-2
Date collected: 01/04/2011	Genotype/strain: unnamed
Date received by WRLFMD: 29/06/2012	Sequence filename: KEN11-11.SEQ
Date received for sequencing: 11/07/2012	Date sequence last updated: 16/07/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3298
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/148/2010	KEN10148	639	636	0	99.53	0.47	EA-2	Unnamed
2	O/KEN/6/2011	KEN11-06	639	635	0	99.37	0.63	EA-2	unnamed
3	O/KEN/152/2010	KEN10152	639	634	0	99.22	0.78	EA-2	Unnamed
4	O/KEN/1/2011	KEN11-01	639	633	0	99.06	0.94	EA-2	Unnamed
5	O/KEN/4/2011	KEN11-04	639	632	0	98.90	1.10	EA-2	unnamed
6	O/KEN/5/2011	KEN11-05	639	631	0	98.75	1.25	EA-2	unnamed
7	O/K31/05* (HM756623)	KEN05-AB	639	614	0	96.09	3.91	EA-2	Unnamed
8	O/KEN/26/2005	KEN05-26	639	614	0	96.09	3.91	EA-2	unnamed
9	O/KEN/30/2004	KEN04-30	639	613	0	95.93	4.07	EA-2	unnamed
10	O/KEN/7/2002	KEN02-07	639	612	0	95.77	4.23	EA-2	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	O/KEN/5/2002 (DQ165073)	KEN02-05	639	595	0	93.11	6.89	EA-2	Unnamed
2	O/UGA/3/2002 (DQ165077)	UGA02-03	639	586	0	91.71	8.29	EA-2	unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	578	0	90.45	9.55	EA-2	unnamed
4	O/TAN/2/2004	TAN04-02	639	573	0	89.67	10.33	EA-2	unnamed
5	O/K40/84*	KEN84-40	639	555	0	86.85	13.15	EA-1	unnamed
6	O/UAE/4/2008	UAE08-04	636	548	0	86.16	13.84	ME-SA	Ind-2001c
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	549	0	85.92	14.08	ME-SA	PanAsia
8	O/IRN/31/2009	IRN09-31	639	545	0	85.29	14.71	ME-SA	PanAsia-2 ^{FAR-09}
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	545	0	85.29	14.71	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	544	0	85.13	14.87	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 17/07/2012
WRLFMD Ref No: KEN/15/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00024	Checked by: D.P. King
Sender Ref: K91/11	
Location: Begi, Gilgil, Rift Valley, Kenya	Topotype: EA-2
Date collected: 18/09/2011	Genotype/strain: unnamed
Date received by WRLFMD: 29/06/2012	Sequence filename: KEN11-15.SEQ
Date received for sequencing: 11/07/2012	Date sequence last updated: 13/07/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3298
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/16/2011	KEN11-16	639	635	0	99.37	0.63	EA-2	unnamed
2	O/KEN/137/2010	KEN10137	639	629	0	98.44	1.56	EA-2	Unnamed
3	O/KEN/151/2010	KEN10151	639	629	0	98.44	1.56	EA-2	Unnamed
4	O/TAN/2/2004	TAN04-02	639	619	0	96.87	3.13	EA-2	unnamed
5	O/TAN/3/2004	TAN04-03	639	619	0	96.87	3.13	EA-2	unnamed
6	O/TAN/12/2004	TAN04-12	639	617	0	96.56	3.44	EA-2	unnamed
7	O/KEN/10/2005	KEN05-10	639	614	0	96.09	3.91	EA-2	unnamed
8	O/KEN/27/2005	KEN05-27	639	612	0	95.77	4.23	EA-2	unnamed
9	O/K48/05* (HM756624)	KEN05-AC	639	611	0	95.62	4.38	EA-2	Unnamed
10	O/KEN/14/2005	KEN05-14	639	610	0	95.46	4.54	EA-2	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	O/TAN/2/2004	TAN04-02	639	619	0	96.87	3.13	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/UGA/3/2002 (DQ165077)	UGA02-03	639	579	0	90.61	9.39	EA-2	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	572	0	89.51	10.49	EA-2	unnamed
5	O/ETH/1/2007 (FJ798137)	ETH07-01	639	544	0	85.13	14.87	EA-3	unnamed
6	O/K40/84*	KEN84-40	639	544	0	85.13	14.87	EA-1	unnamed
7	O/IRN/61/2001 (DQ164896)	IRN01-61	638	537	1	84.17	15.83	ME-SA	Irn-2001
8	O/K83/79* (AJ303511)	KEN79B83	638	537	1	84.17	15.83	EA-1	unnamed
9	O/UAE/4/2008	UAE08-04	636	535	0	84.12	15.88	ME-SA	Ind-2001c
10	O/ETH/3/2004 (FJ798109)	ETH04-03	639	537	0	84.04	15.96	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: KEN/16/2011 Batch No: WRLFMD/2012/00024 Sender Ref: K98/011 Location: Masimba, Masaba South, Rift Valley, Kenya Date collected: 22/09/2011 Date received by WRLFMD: 29/06/2012 Date received for sequencing: 11/07/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 17/07/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-2 Genotype/strain: unnamed Sequence filename: KEN11-16.SEQ Date sequence last updated: 13/07/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3298 Min. no. of nt for comparison: 600 Total turn-around time: 18 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/KEN/15/2011	KEN11-15	639	635	0	99.37	0.63	EA-2	unnamed
2	O/KEN/137/2010	KEN10137	639	631	0	98.75	1.25	EA-2	Unnamed
3	O/KEN/151/2010	KEN10151	639	631	0	98.75	1.25	EA-2	Unnamed
4	O/TAN/2/2004	TAN04-02	639	623	0	97.50	2.50	EA-2	unnamed
5	O/TAN/3/2004	TAN04-03	639	623	0	97.50	2.50	EA-2	unnamed
6	O/TAN/12/2004	TAN04-12	639	621	0	97.18	2.82	EA-2	unnamed
7	O/KEN/10/2005	KEN05-10	639	618	0	96.71	3.29	EA-2	unnamed
8	O/KEN/27/2005	KEN05-27	639	616	0	96.40	3.60	EA-2	unnamed
9	O/K48/05* (HM756624)	KEN05-AC	639	615	0	96.24	3.76	EA-2	Unnamed
10	O/KEN/14/2005	KEN05-14	639	614	0	96.09	3.91	EA-2	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	O/TAN/2/2004	TAN04-02	639	623	0	97.50	2.50	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	584	0	91.39	8.61	EA-2	Unnamed
3	O/UGA/3/2002 (DQ165077)	UGA02-03	639	581	0	90.92	9.08	EA-2	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	574	0	89.83	10.17	EA-2	unnamed
5	O/ETH/1/2007 (FJ798137)	ETH07-01	639	546	0	85.45	14.55	EA-3	unnamed
6	O/K40/84*	KEN84-40	639	546	0	85.45	14.55	EA-1	unnamed
7	O/IRN/61/2001 (DQ164896)	IRN01-61	638	539	1	84.48	15.52	ME-SA	Irn-2001
8	O/UAE/4/2008	UAE08-04	636	537	0	84.43	15.57	ME-SA	Ind-2001c
9	O/ETH/3/2004 (FJ798109)	ETH04-03	639	539	0	84.35	15.65	EA-3	unnamed
10	O/BHU/3/2009	BHU09-03	639	536	0	83.88	16.12	ME-SA	Ind-2001d

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in Kenya in 2011

Batch: WRLFMD/2012/00024

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

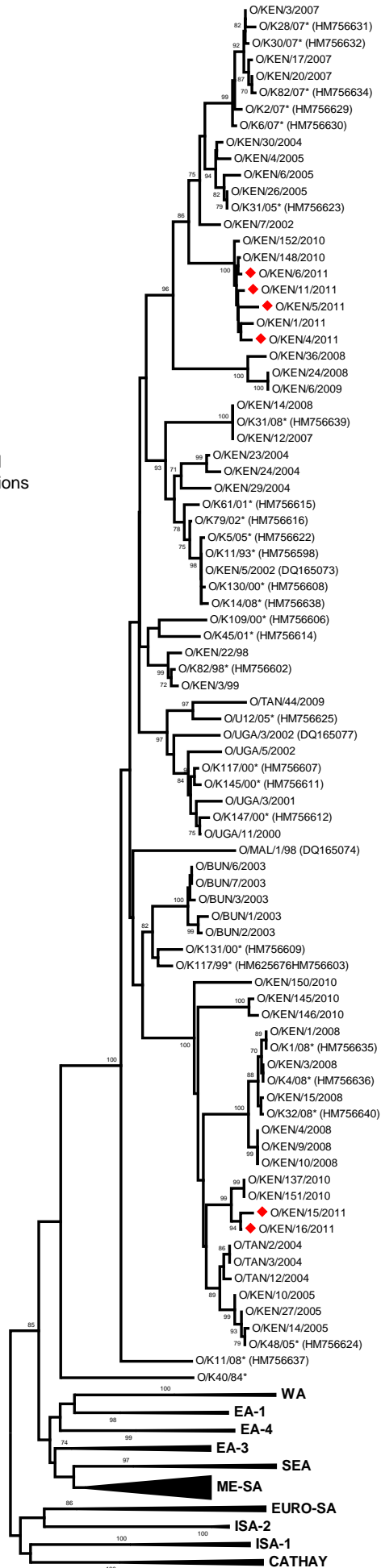
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 18 July 2012

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EA-2

0.02