

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/3/2007	Reported by: N.J. Knowles
Sender Ref: K30/07	Checked by: D.P. King
Date collected: 18/06/2007	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN07-03.SEQ
Material used: BTy1	Date sequence last updated: 25/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/17/2007	KEN07-17	639	636	0	99.53	0.47
2	O/KEN/20/2007	KEN07-20	639	636	0	99.53	0.47
3	O/KEN/30/2004	KEN04-30	639	623	0	97.5	2.5
4	O/KEN/26/2005	KEN05-26	639	620	0	97.03	2.97
5	O/KEN/4/2005	KEN05-04	639	619	0	96.87	3.13
6	O/KEN/6/2005	KEN05-06	639	618	0	96.71	3.29
7	O/KEN/7/2002	KEN02-07	639	617	0	96.56	3.44
8	O/ZAM/1/2000	ZAM00-01	639	592	0	92.64	7.36
9	O/ZAM/2/2000	ZAM00-02	639	592	0	92.64	7.36
10	O/KEN/18/98	KEN98-18	384	355	17	92.45	7.55

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	547	0	85.6	14.4
2	O/TAW/2/99 (AJ294927)	TAW99-02	639	545	0	85.29	14.71
3	O/MOR/1/91	MOR91-01	639	544	0	85.13	14.87
4	O/IND/R2/75* [AF204276]	IND75--A	639	543	0	84.98	15.02
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	542	0	84.82	15.18
6	O/IND/53/79 [AF292107]	IND79A53	639	539	0	84.35	15.65
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	520	0	81.38	18.62
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	520	0	81.38	18.62
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	512	2	80.38	19.62
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	513	0	80.28	19.72

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/12/2007	Reported by: N.J. Knowles
Sender Ref: K57/07	Checked by: D.P. King
Date collected: 23/07/2007	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN07-12.SEQ
Material used: BTy1	Date sequence last updated: 25/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/14/2008	KEN08-14	639	639	0	100	0
2	O/KEN/23/2004	KEN04-23	639	608	0	95.15	4.85
3	O/KEN/29/2004	KEN04-29	639	608	0	95.15	4.85
4	O/KEN/5/2002 (DQ165073)	KEN02-05	639	606	0	94.84	5.16
5	O/KEN/24/2004	KEN04-24	639	603	0	94.37	5.63
6	O/KEN/18/98 (K82/98)	KEN98-18	384	361	17	94.01	5.99
7	O/UGA/1/00* (AY344620)	UGA00-AA	495	459	0	92.73	7.27
8	O/KEN/7/2002	KEN02-07	639	592	0	92.64	7.36
9	O/UGA/11/02* (AY349950)	UGA02-AB	495	458	0	92.53	7.47
10	O/KEN/26/2005	KEN05-26	639	591	0	92.49	7.51

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99 (AJ294927)	TAW99-02	639	548	0	85.76	14.24
2	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	545	0	85.29	14.71
3	O/IND/R2/75* [AF204276]	IND75--A	639	543	0	84.98	15.02
4	O/MOR/1/91	MOR91-01	639	543	0	84.98	15.02
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	541	0	84.66	15.34
6	O/IND/53/79 [AF292107]	IND79A53	639	539	0	84.35	15.65
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	521	0	81.53	18.47
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	518	0	81.06	18.94
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	513	2	80.53	19.47
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/17/2007	Reported by: N.J. Knowles
Sender Ref: K74/07	Checked by: D.P. King
Date collected: 30/08/2007	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN07-17.SEQ
Material used: BTy1	Date sequence last updated: 25/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/20/2007	KEN07-20	639	637	0	99.69	0.31
2	O/KEN/3/2007	KEN07-03	639	636	0	99.53	0.47
3	O/KEN/30/2004	KEN04-30	639	620	0	97.03	2.97
4	O/KEN/26/2005	KEN05-26	639	617	0	96.56	3.44
5	O/KEN/4/2005	KEN05-04	639	616	0	96.4	3.6
6	O/KEN/7/2002	KEN02-07	639	616	0	96.4	3.6
7	O/KEN/6/2005	KEN05-06	639	615	0	96.24	3.76
8	O/ZAM/1/2000	ZAM00-01	639	589	0	92.18	7.82
9	O/ZAM/2/2000	ZAM00-02	639	589	0	92.18	7.82
10	O/KEN/18/98	KEN98-18	384	353	17	91.93	8.07

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	545	0	85.29	14.71
2	O/TAW/2/99 (AJ294927)	TAW99-02	639	543	0	84.98	15.02
3	O/MOR/1/91	MOR91-01	639	542	0	84.82	15.18
4	O/IND/R2/75* [AF204276]	IND75--A	639	541	0	84.66	15.34
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	540	0	84.51	15.49
6	O/IND/53/79 [AF292107]	IND79A53	639	537	0	84.04	15.96
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	519	0	81.22	18.78
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	517	0	80.91	19.09
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	510	2	80.06	19.94
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/20/2007	Reported by: N.J. Knowles
Sender Ref: K82/07	Checked by: D.P. King
Date collected: 01/10/2007	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN07-20.SEQ
Material used: BTy1	Date sequence last updated: 25/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/17/2007	KEN07-17	639	637	0	99.69	0.31
2	O/KEN/3/2007	KEN07-03	639	636	0	99.53	0.47
3	O/KEN/30/2004	KEN04-30	639	620	0	97.03	2.97
4	O/KEN/26/2005	KEN05-26	639	617	0	96.56	3.44
5	O/KEN/4/2005	KEN05-04	639	616	0	96.4	3.6
6	O/KEN/7/2002	KEN02-07	639	616	0	96.4	3.6
7	O/KEN/6/2005	KEN05-06	639	615	0	96.24	3.76
8	O/KEN/18/98	KEN98-18	384	354	17	92.19	7.81
9	O/ZAM/1/2000	ZAM00-01	639	589	0	92.18	7.82
10	O/ZAM/2/2000	ZAM00-02	639	589	0	92.18	7.82

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	545	0	85.29	14.71
2	O/TAW/2/99 (AJ294927)	TAW99-02	639	543	0	84.98	15.02
3	O/MOR/1/91	MOR91-01	639	542	0	84.82	15.18
4	O/IND/R2/75* [AF204276]	IND75--A	639	541	0	84.66	15.34
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	540	0	84.51	15.49
6	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	519	0	81.22	18.78
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	517	0	80.91	19.09
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	509	2	79.91	20.09
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/1/2008	Reported by: N.J. Knowles
Sender Ref: K1/08	Checked by: D.P. King
Date collected: 08/01/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-01.SEQ
Material used: BTy1	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/3/2008	KEN08-03	639	637	0	99.69	0.31
2	O/KEN/15/2008	KEN08-15	639	635	0	99.37	0.63
3	O/KEN/10/2008	KEN08-10	639	631	0	98.75	1.25
4	O/KEN/4/2008	KEN08-04	639	631	0	98.75	1.25
5	O/KEN/9/2008	KEN08-09	639	631	0	98.75	1.25
6	O/TAN/2/2004	TAN04-02	639	615	0	96.24	3.76
7	O/TAN/3/2004	TAN04-03	639	615	0	96.24	3.76
8	O/TAN/12/2004	TAN04-12	639	613	0	95.93	4.07
9	O/KEN/10/2005	KEN05-10	639	610	0	95.46	4.54
10	O/KEN/27/2005	KEN05-27	639	608	0	95.15	4.85

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99 (AJ294927)	TAW99-02	639	539	0	84.35	15.65
2	O/IND/53/79 [AF292107]	IND79A53	639	537	0	84.04	15.96
3	O/IND/R2/75* [AF204276]	IND75--A	639	537	0	84.04	15.96
4	O/ISR/2/88 (DQ164899)	ISR88-02	639	535	0	83.72	16.28
5	O/MOR/1/91	MOR91-01	639	534	0	83.57	16.43
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	524	0	82	18
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	518	0	81.06	18.94
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	510	0	79.81	20.19
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	506	0	79.19	20.81
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	501	2	78.65	21.35

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/3/2008	Reported by: N.J. Knowles
Sender Ref: K4/08	Checked by: D.P. King
Date collected: 23/01/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-03.SEQ
Material used: BTy1	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/1/2008	KEN08-01	639	637	0	99.69	0.31
2	O/KEN/15/2008	KEN08-15	639	637	0	99.69	0.31
3	O/KEN/10/2008	KEN08-10	639	633	0	99.06	0.94
4	O/KEN/4/2008	KEN08-04	639	633	0	99.06	0.94
5	O/KEN/9/2008	KEN08-09	639	633	0	99.06	0.94
6	O/TAN/2/2004	TAN04-02	639	617	0	96.56	3.44
7	O/TAN/3/2004	TAN04-03	639	617	0	96.56	3.44
8	O/TAN/12/2004	TAN04-12	639	615	0	96.24	3.76
9	O/KEN/10/2005	KEN05-10	639	612	0	95.77	4.23
10	O/KEN/27/2005	KEN05-27	639	610	0	95.46	4.54

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	539	0	84.35	15.65
2	O/TAW/2/99 (AJ294927)	TAW99-02	639	539	0	84.35	15.65
3	O/IND/R2/75* [AF204276]	IND75--A	639	537	0	84.04	15.96
4	O/ISR/2/88 (DQ164899)	ISR88-02	639	535	0	83.72	16.28
5	O/MOR/1/91	MOR91-01	639	534	0	83.57	16.43
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	526	0	82.32	17.68
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	520	0	81.38	18.62
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	512	0	80.13	19.87
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	508	0	79.5	20.5
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	501	2	78.65	21.35

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/4/2008	Reported by: N.J. Knowles
Sender Ref: K6/08	Checked by: D.P. King
Date collected: 06/02/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-04.SEQ
Material used: BTy2	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/10/2008	KEN08-10	639	639	0	100	0
2	O/KEN/9/2008	KEN08-09	639	639	0	100	0
3	O/KEN/3/2008	KEN08-03	639	633	0	99.06	0.94
4	O/KEN/1/2008	KEN08-01	639	631	0	98.75	1.25
5	O/KEN/15/2008	KEN08-15	639	631	0	98.75	1.25
6	O/TAN/2/2004	TAN04-02	639	617	0	96.56	3.44
7	O/TAN/3/2004	TAN04-03	639	617	0	96.56	3.44
8	O/TAN/12/2004	TAN04-12	639	615	0	96.24	3.76
9	O/KEN/10/2005	KEN05-10	639	612	0	95.77	4.23
10	O/KEN/27/2005	KEN05-27	639	610	0	95.46	4.54

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81
2	O/IND/R2/75* [AF204276]	IND75--A	639	536	0	83.88	16.12
3	O/ISR/2/88 (DQ164899)	ISR88-02	639	536	0	83.88	16.12
4	O/TAW/2/99 (AJ294927)	TAW99-02	639	536	0	83.88	16.12
5	O/MOR/1/91	MOR91-01	639	535	0	83.72	16.28
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	523	0	81.85	18.15
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	521	0	81.53	18.47
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	512	0	80.13	19.87
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	507	0	79.34	20.66
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	502	2	78.81	21.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/9/2008	Reported by: N.J. Knowles
Sender Ref: K11/08	Checked by: D.P. King
Date collected: 20/02/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-09.SEQ
Material used: BTy1	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 158 days
No. of ambiguities: 0	Sequencing time: 133 days
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/10/2008	KEN08-10	639	639	0	100	0
2	O/KEN/4/2008	KEN08-04	639	639	0	100	0
3	O/KEN/3/2008	KEN08-03	639	633	0	99.06	0.94
4	O/KEN/1/2008	KEN08-01	639	631	0	98.75	1.25
5	O/KEN/15/2008	KEN08-15	639	631	0	98.75	1.25
6	O/TAN/2/2004	TAN04-02	639	617	0	96.56	3.44
7	O/TAN/3/2004	TAN04-03	639	617	0	96.56	3.44
8	O/TAN/12/2004	TAN04-12	639	615	0	96.24	3.76
9	O/KEN/10/2005	KEN05-10	639	612	0	95.77	4.23
10	O/KEN/27/2005	KEN05-27	639	610	0	95.46	4.54

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81
2	O/IND/R2/75* [AF204276]	IND75--A	639	536	0	83.88	16.12
3	O/ISR/2/88 (DQ164899)	ISR88-02	639	536	0	83.88	16.12
4	O/TAW/2/99 (AJ294927)	TAW99-02	639	536	0	83.88	16.12
5	O/MOR/1/91	MOR91-01	639	535	0	83.72	16.28
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	523	0	81.85	18.15
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	521	0	81.53	18.47
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	512	0	80.13	19.87
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	507	0	79.34	20.66
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	502	2	78.81	21.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/10/2008	Reported by: N.J. Knowles
Sender Ref: K14/08	Checked by: D.P. King
Date collected: 22/02/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-10.SEQ
Material used: BTy2	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/4/2008	KEN08-04	639	639	0	100	0
2	O/KEN/9/2008	KEN08-09	639	639	0	100	0
3	O/KEN/3/2008	KEN08-03	639	633	0	99.06	0.94
4	O/KEN/1/2008	KEN08-01	639	631	0	98.75	1.25
5	O/KEN/15/2008	KEN08-15	639	631	0	98.75	1.25
6	O/TAN/2/2004	TAN04-02	639	617	0	96.56	3.44
7	O/TAN/3/2004	TAN04-03	639	617	0	96.56	3.44
8	O/TAN/12/2004	TAN04-12	639	615	0	96.24	3.76
9	O/KEN/10/2005	KEN05-10	639	612	0	95.77	4.23
10	O/KEN/27/2005	KEN05-27	639	610	0	95.46	4.54

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81
2	O/IND/R2/75* [AF204276]	IND75--A	639	536	0	83.88	16.12
3	O/ISR/2/88 (DQ164899)	ISR88-02	639	536	0	83.88	16.12
4	O/TAW/2/99 (AJ294927)	TAW99-02	639	536	0	83.88	16.12
5	O/MOR/1/91	MOR91-01	639	535	0	83.72	16.28
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	523	0	81.85	18.15
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	521	0	81.53	18.47
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	512	0	80.13	19.87
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	507	0	79.34	20.66
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	502	2	78.81	21.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/14/2008	Reported by: N.J. Knowles
Sender Ref: K31/08	Checked by: D.P. King
Date collected: 05/05/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-14.SEQ
Material used: BTy1	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/12/2007	KEN07-12	639	639	0	100	0
2	O/KEN/23/2004	KEN04-23	639	608	0	95.15	4.85
3	O/KEN/29/2004	KEN04-29	639	608	0	95.15	4.85
4	O/KEN/5/2002 (DQ165073)	KEN02-05	639	606	0	94.84	5.16
5	O/KEN/24/2004	KEN04-24	639	603	0	94.37	5.63
6	O/KEN/18/98 (K82/98)	KEN98-18	384	361	17	94.01	5.99
7	O/UGA/1/00* (AY344620)	UGA00-AA	495	459	0	92.73	7.27
8	O/KEN/7/2002	KEN02-07	639	592	0	92.64	7.36
9	O/UGA/11/02* (AY349950)	UGA02-AB	495	458	0	92.53	7.47
10	O/KEN/26/2005	KEN05-26	639	591	0	92.49	7.51

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99 (AJ294927)	TAW99-02	639	548	0	85.76	14.24
2	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	545	0	85.29	14.71
3	O/IND/R2/75* [AF204276]	IND75--A	639	543	0	84.98	15.02
4	O/MOR/1/91	MOR91-01	639	543	0	84.98	15.02
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	541	0	84.66	15.34
6	O/IND/53/79 [AF292107]	IND79A53	639	539	0	84.35	15.65
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	521	0	81.53	18.47
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	518	0	81.06	18.94
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	513	2	80.53	19.47
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 27/10/2008
WRL Ref No: KEN/15/2008	Reported by: N.J. Knowles
Sender Ref: K32/08	Checked by: D.P. King
Date collected: 05/05/2008	
Date received by WRLFMD: 22/05/2008	Topotype: EA-2
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-15.SEQ
Material used: BTy1	Date sequence last updated: 27/10/2008
Region sequenced: VP1	Total no. of comparisons: 1808
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 158 days
No. of Nt determined: 639	Sequencing time: 133 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/KEN/3/2008	KEN08-03	639	637	0	99.69	0.31
2	O/KEN/1/2008	KEN08-01	639	635	0	99.37	0.63
3	O/KEN/10/2008	KEN08-10	639	631	0	98.75	1.25
4	O/KEN/4/2008	KEN08-04	639	631	0	98.75	1.25
5	O/KEN/9/2008	KEN08-09	639	631	0	98.75	1.25
6	O/TAN/2/2004	TAN04-02	639	617	0	96.56	3.44
7	O/TAN/3/2004	TAN04-03	639	617	0	96.56	3.44
8	O/TAN/12/2004	TAN04-12	639	615	0	96.24	3.76
9	O/KEN/10/2005	KEN05-10	639	612	0	95.77	4.23
10	O/KEN/27/2005	KEN05-27	639	610	0	95.46	4.54

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99 (AJ294927)	TAW99-02	639	539	0	84.35	15.65
2	O/IND/53/79 [AF292107]	IND79A53	639	537	0	84.04	15.96
3	O/MOR/1/91	MOR91-01	639	536	0	83.88	16.12
4	O/IND/R2/75* [AF204276]	IND75--A	639	535	0	83.72	16.28
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	535	0	83.72	16.28
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	526	0	82.32	17.68
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	520	0	81.38	18.62
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	513	0	80.28	19.72
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	508	0	79.5	20.5
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	501	2	78.65	21.35

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Kenya in 2007-2008

Software: MEGA 4.0
 No. of Taxa : 150
 Data File : N:\levd\MEG\db\FMDV\O\KEN2008a.meg
 Data Title : O/Kenya/2007-08
 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 : 642
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

