

Serotype: SAT2

Report date: 11/11/2004

WRL Ref No: RWA/1/2004

Date collected: not known

Date received: 06/07/2004

Species: not known

Material used: PK1 RS1 BTy1

Region sequenced: VP1

RT-PCR primers: SAT2-P1-1223F/SAT-2B208R

No. of Nt determined: 648

No. of ambiguities: 0

Gene length: 648

Topotype: none designated

Genotype/strain: none designated

Sequence filename: RWA04-01.SEQ

Date sequence last updated: 18/08/2004

Total no. of comparisons: 288

Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/RWA/1/2000	RWA00-01	648	609	0	93.98	6.02
2	SAT2/RWA/2/97	RWA97-02	412	338	8	82.04	17.96
3	SAT2/KEN/7/98A (K30/98)	KEN98A07	382	290	3	75.92	24.08
4	SAT2/MAL/1/2004	MAL04-01	384	291	0	75.78	24.22
5	SAT2/SAU/9/2000	SAU00-09	333	252	4	75.68	24.32
6	SAT2/UGA/4/2002	UGA02-04	418	316	0	75.6	24.4
7	SAT2/SAU/11/2000	SAU00-11	330	249	7	75.45	24.55
8	SAT2/KEN/11/96 (K39/96)	KEN96-11	389	293	8	75.32	24.68
9	SAT2/GHA/2/90	GHA90-02	412	310	6	75.24	24.76
10	SAT2/SAU/5/2000	SAU00-05	359	270	1	75.21	24.79

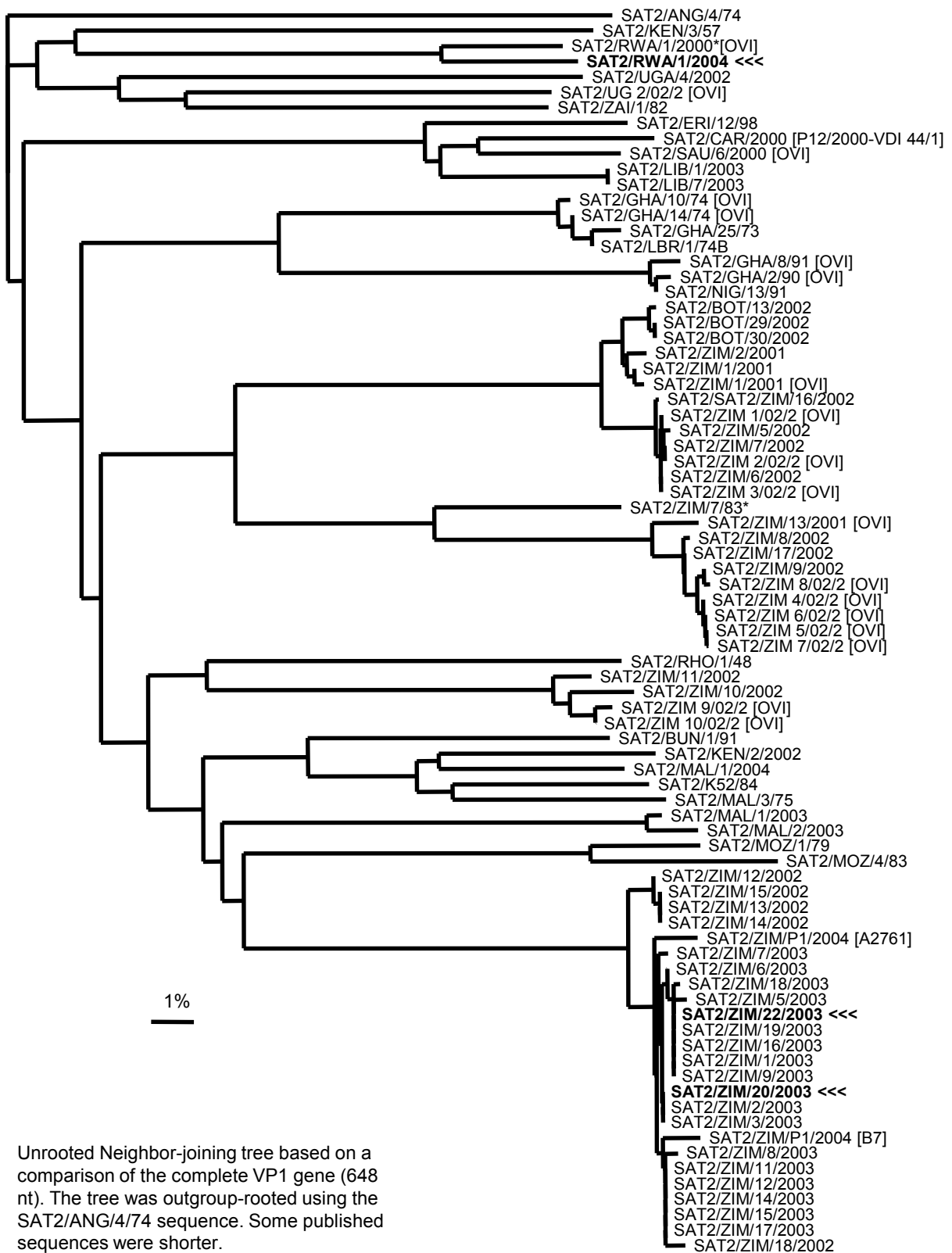
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/KEN/3/57	KEN57-03	648	495	0	76.39	23.61
2	SAT2/ZAM/3/81*	ZAM81V03	198	149	6	75.25	24.75
3	SAT2/ZIM/9/89	ZIM89-09	218	159	1	72.94	27.06
4	SAT2/ZIM/7/83*	ZIM83A07	648	453	0	69.91	30.09
5	SAT2/RHO/1/48	ZAM48A01	648	452	0	69.75	30.25

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV SAT 2 isolates from Zimbabwe in 2003 and Rwanda in 2004 (received from the OVI)



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (648 nt). The tree was outgroup-rooted using the SAT2/ANG/4/74 sequence. Some published sequences were shorter.

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