

Serotype: SAT2	Report date: 19/05/2008
WRL Ref No: ZAM/8/2008	
Sender Ref: ZAM 08/08	
Date collected: 2008	
Date received by WRLFMD: 17/04/2008	Topotype: none defined
Date received for sequencing: 24/04/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ZAM08-08.SEQ
Material used: BTy1	Date sequence last updated: 16/05/2008
Region sequenced: VP1	Total no. of comparisons: 410
RT-PCR primers: SAT2VP3-AB/SAT-2B208R;	Min. no. of nt for comparison: 300
SAT-1D209F/SAT-2B208R	Total turn-around time: 32 days
No. of Nt determined: 648	Sequencing time: 25 days
No. of ambiguities: 0	
Gene length: 648	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/NMB/4/2007	NMB07-04	648	641	0	98.92	1.08
2	SAT2/NMB/1/2007	NMB07-01	648	640	0	98.77	1.23
3	SAT2/ZAM/1/2007	ZAM07-01	648	639	0	98.61	1.39
4	SAT2/ZAM/3/2007	ZAM07-03	648	639	0	98.61	1.39
5	SAT2/ZAM/2/2007	ZAM07-02	648	638	0	98.46	1.54
6	SAT2/BOT/24/2006 (Afr. buffalo)	BOT06-24	648	616	0	95.06	4.94
7	SAT2/BOT/2/2005	BOT05-02	648	565	0	87.19	12.81
8	SAT2/BOT/4/2005	BOT05-04	648	565	0	87.19	12.81
9	SAT2/BOT/1/2005	BOT05-01	648	564	0	87.04	12.96
10	SAT2/BOT/3/2005	BOT05-03	648	564	0	87.04	12.96

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/RHO/1/48 [AJ251475]	ZAM48A01	648	545	0	84.1	15.9
2	SAT2/K52/84 (Kenya)	KEN84K52	648	518	0	79.94	20.06
3	SAT2/K183/74 (Kenya)	KEN74183	648	510	0	78.7	21.3
4	SAT2/SA/106/59 (AY593848)	RSA59--A	648	509	0	78.55	21.45
5	SAT2/ZIM/7/83 [AF136607]	ZIM83A07	648	491	0	75.77	24.23
6	SAT2/GHA/2/90 (AF479415)	GHA90A02	648	483	0	74.54	25.46
7	SAT2/ANG/4/74 [AF479417]	ANG74-04	648	475	0	73.3	26.7
8	SAT2/KEN/3/57	KEN57-03	648	475	0	73.3	26.7
9	SAT2/SAU/6/2000 [AF367135]	SAU00A06	647	469	1	72.49	27.51
10	SAT2/GAM/8/79 [AF479410]	GAM79-08	648	466	0	71.91	28.09

nt, nucleotides

*, not a WRLFMD reference number

