

Supplemental Table S1. Primers for amplifying the ORF of M and L fragments of SXYQ1872-1.

	Target sequence	Primer	Sequence (5'-3')
WUXV-M	M-1	M1_F_1-23	GCATGCATGTTTGAAATAATAGTAGTACT
		M1_R_1082-1106	TGGGAATTGAAGAATGGGTATCTGT
	M-2	M2_F_126-150	GTTCTTTTGGATAGAGAGTTACTGG
		M2_R_1231-1253	CCTCTGGGACACTTATATGCCAT
	M-3	M3_F_1167-1192	GACATTCTGTGATAGTRCAAAGATGT
		M3_R_2127-2151	GTGCACCTTATAATGTGAGCTAACT
	M-4	M4_F_2078-2098	GATCAGTRGGAGGTGATGTGG
		M4_R_3034-3056	TCAACACAGCTGAACACCTCTAT
	M-5	M5_F_2897-2921	CAGGAATGACAAAYAACACTGTGAT
		M5_R_3970-3993	ATAGCCWATTATGATGCCAGCTGT
	M-6	M6_F_3867-3888	GACACARGCTGCAAAGTCAATA
		M6_R_4283-4301	TGACACAAAGACCGGTGCATAA
WUXV-L	L-1	L1_F_1-19	ATGAATTCCATAATAGAGC
		L1_R_1029-1054	AGTCTCCTTGGATACTTAGATCTGAT
	L-2	L2_F_142-163	GTGGATAGAGAGCACTTTGACG
		L2_R_1283-1307	CTCTGATCTCTTGACTCTTTAACGT
	L-3	L3_F_1217-1242	TTTAGAAGAGTCCACCTATATTGCC
		L3_R_2191-2215	GATTAAACATGCCCATCCATGAGAT
	L-4	L4_F_2099-2121	CAGAGTTGCAGGTCCTAATCATG
		L4_R_3038-3061	GTATGATCATTGGGTGCCATCTAG
	L-5	L5_F_2889-2910	AATGAGAATTCCTGAGAGCCAC
		L5_R_3962-3984	AAATTCCTCCTCATCACTACGCA
	L-6	L6_F_3900-3921	AATGCAGTGACCAGGACAGAT
		L6_R_4886-1908	CTTTATAAGTTCTGCCCACATGC
	L-7	L7_F_4795-4816	GGTCTAAGCAAAGTGTCTCAGTCG
		L7_R_5787-5808	AGTCTCAGTGCAGGTCTTCAC
	L-8	L8_F_5562-5586	GAACATATTGTCATACACAGCAGGT
		L8_R_6250-6273	TCAGATGAAACCTTCAGAGTCACT

Supplemental Table S2. Different amino acid sites of M segment

position	11	13	18	37	42	44	95	107	118	150	162
SXWX1813-2	I	E	M	D	N	L	K	K	T	T	N
SXYQ1872-1	L	G	T	G	D	S	R	E	I	A	S
position	172	177	227	257	269	406	517	548	703	1003	1066
SXWX1813-2	A	V	T	M	P	I	I	V	A	V	I
SXYQ1872-1	P	I	A	I	S	T	T	I	T	I	M
position	1081	1101	1168	1169	1184						
SXWX1813-2	R	V	I	I	M						
SXYQ1872-1	K	I	V	V	V						

Supplemental Table S3. Different amino acid sites of L segment

position	101	193	290	576	769	1161	1414	1597	1549	1594	1878
SXWX1813-2	R	I	V	T	V	G	V	A	I	I	S
SXYQ1872-1	K	V	I	M	I	D	I	V	V	T	T

Supplemental Table S4. Information about primers and probe sequences of qRT-PCR for WUXV detection

Primers and Probe	Sequence (5'~3')	Position*
WUXV_S-F	TTGGCAACAAGAGCCTTCAC	1346-1365
WUXV_S-R	ACAAGCCAAAGAAGATGCAAGA	1394-1415
WUXV_S-Probe	Cy5-TCCTTGGCACCCCTCTGGAGACATCCT-BHQ2	1367-1392

Note: *The primers and probe locations in the genome were based on the S gene sequence of SXYQ1872-1 WUXV strain (GenBank Access No.: MT786487.1).