

TABLE S1. Name, sampling year and gene accession number of the 253 isolates of *Rice yellow mottle virus* collected over a 40 year period in 16 countries¹ in Africa.

Isolate ¹	Group ²	Sampling year	Accession number		Sequence reference
			Coat protein gene ³	Full sequence ³	
Be1	IV	1999	AJ885087		(39)
Be2	IV	1999	AJ885088		(39)
Be3	IV	2003	AM931172		this study
BF1	II	1990	AJ279901	AM883059	(33)
BF2	III	1990	AJ885089		(39)
BF5	III	2000	AJ885090		(39)
BF570	III	2000	AJ885091		(39)
BF572	III	2000	AJ885092		(39)
BF682	III	2000	AJ885093		(39)
BF701	-	1997	AM931173		this study
BF702	III	1997	AM931174		this study
Ca5	IV	2000	AJ317949		(39)
Ca30	IV	2000	AJ317950		(39)
Ca38	IV	2000	AJ306735		(39)
Ca54	IV	2000	AJ317951		(39)
CI1	III	1995	AJ279902		(33)
CI2	III	1994	AJ279903		(33)
CI3	III	1995	AJ279904		(33)
CI4	III	1995	AJ279905	AJ608206	(33)
CI5	III	1995	AJ279906		(33)
CI6	III	1996	AJ279907		(33)
CI7	III	1995	AJ279908		(33)
CI8	I	1994	AJ279909		(33)
CI9	I	1994	AJ279910		(33)
CI10	I	1994	AJ279911		(33)
CI11	I	1994	AJ279912		(33)
CI12	I	1991	AJ279913		(33)
CI13	I	1991	AJ279914		(33)
CI14	I	1996	AJ279915		(33)
CI15	I	1997	AJ279916		(33)
CI16	I	1996	AJ279917		(33)
CI17	I	1975	AJ279918		(33)
CI46	I	1995	AJ885094		(39)
CI47	I	1997	AJ885095		(39)
CI63	I	1997	AJ608207	AJ608207	(17)
CI65	I	1999	AJ885096		(39)
CI66	III	1995	AJ885097		(39)
CI67	I	1997	AJ885098		(39)
CI68	I	1975	AM931175		this study
CI101	I	2001	AJ885099		(39)
CI104	I	2001	AJ885100		(39)
CI105	I	2001	AJ885101		(39)
CI106	I	2001	AJ885102		(39)
CI109	I	2001	AJ885103		(39)
CI110	I	2001	AJ885104		(39)
CI111	I	2001	AJ885105		(39)
CI112	I	2001	AJ885106		(39)
CI113	I	2001	AJ885107		(39)
CI114	I	2001	AJ885108		(39)
CI115	I	2001	AJ885109		(39)

CI116	I	2001	AJ885110		(39)
CI117	III	2001	AJ885111		(39)
CI118	III	2001	AJ885112		(39)
CI121	I	2001	AJ885113		(39)
CI129	I	2001	AJ885114		(39)
CI138	I	2001	AJ885115		(39)
CI139	I	2002	AJ885116		(39)
CI151	I	2002	AJ885117		(39)
CI152	I	2002	AJ885118		(39)
CI153	I	2002	AJ885119		(39)
CI154	I	2002	AJ885120		(39)
CI155	I	2002	AJ885121		(39)
CI156	I	2002	AJ885122		(39)
CI157	I	2002	AJ885123		(39)
CIa	I	1975	AJ608219	AJ608219	(17)
CIb	III	1990	L20893	L20893	direct submission
Gh1	-	1995	AJ279919		(33)
Gu1	II	1991	AJ279920		(33)
Gu21	II	2002	AJ885124		(39)
Gu26	II	2002	AJ885125		(39)
Gu28	II	2002	AJ885126		(39)
Gu29	II	2002	AJ885127		(39)
Gu30	II	2006	AM931176		this study
Gu31	II	2006	AM931177		this study
Ke1	V	1966	AJ511805		(1)
Ke2	V	1966	AJ885128		(39)
Ke3	V	1966	AM931178		this study
Ma1	III	1990	AJ279926		(33)
Ma2	III	1990	AJ279927		(33)
Ma3	III	1992	AJ279928		(33)
Ma4	II	1996	AJ279929		(33)
Ma5	II	1996	AJ279930		(33)
Ma6	II	1996	AJ279931		(33)
Ma7	II	1996	AJ885129		(39)
Ma8	-	1996	AJ885130		(39)
Ma9	-	1992	AJ881531		(39)
Ma10	-	1996	AJ608208	AJ608208	(17)
Ma29	II	2000	AJ885132		(39)
Ma41	III	2000	AJ885133		(39)
Ma77	-	2000	AJ608209	AJ608209	(39)
Ma98	III	2000	AJ885134		(39)
Ma105	II	2000	AJ885135		(39)
Ma144	-	2003	AJ885136		(39)
Ma145	-	2003	AJ885137		(39)
Ma146	-	2003	AJ885138		(39)
Ma148	II	2001	AJ885139		(39)
Ma149	II	2001	AJ885140		(39)
Ma171	-	2003	AJ885141		(39)
Ma175	-	2003	AJ885142		(39)
Ma179	II	2002	AJ885143		(39)
Ma180	II	2002	AJ885144		(39)
Ma185	II	2002	AJ885145		(39)
Ma201	-	1997	AM931179		this study
Ma202	-	1997	AM931180		this study
Ma203	II	1997	AM931181		this study
Ma204	-	1997	AM931182		this study
Ma205	-	1997	AM931183		this study
Ma206	-	1997	AM931184		this study
Ma207	III	1997	AM931185		this study

Ma208	II	1997	AM931186		this study
Ma209	-	1997	AM931187		this study
Ma210	-	2003	AJ885146		(39)
Mg1	-	1989	AJ279921	AJ608210	(33)
Mg2	-	1991	AJ279922	AJ608211	(33)
Mg3	-	1991	AJ279923		(33)
Mg4	-	1991	AJ279924		(33)
Mg5	-	1991	AJ279925		(33)
Mg6	-	1991	AM931189		this study
Mg10	-	2003	AM931190		this study
Mg11	-	2003	AM931191		this study
Mg12	-	2003	AM931192		this study
Mg13	-	2003	AM931193		this study
Mg14	-	2003	AM931194		this study
Mg15	-	2003	AM931195		this study
Mg16	-	2003		AM883056	(34)
Mg17	-	2004	AM931196		this study
Mg18	-	2004	AM931197		this study
Mg19	-	2004	AM931198		this study
Mg20	-	2004	AM931199		this study
Mg21	-	2004	AM931200		this study
Mg22	-	2004	AM931201		this study
Mg23	-	2004	AM931202		this study
Mg24	-	2004	AM931203		this study
Mg25	-	2004	AM931204		this study
Mg26	-	2004	AM931205		this study
Mg27	-	2004	AM931206		this study
Mg28	-	2004	AM931207		this study
Mg29	-	2004	AM931208		this study
Mg30	-	2004	AM931209		this study
Mg31	-	2004	AM931210		this study
Mg32	-	2004	AM931211		this study
Mg33	-	2004	AM931212		this study
Mg34	-	2004	AM931213		this study
Mg35	-	2004	AM931214		this study
Ng3	IV	1998	AJ885147		(39)
Ng4	IV	1997	AJ885148		(39)
Ng6	IV	1998	AJ885149		(39)
Ng7	IV	2003	AM931215		this study
Ng8	IV	2003	AM931216		this study
Ng9	IV	2003	AM931217		this study
Ng10	IV	2003	AM931218		this study
Ng11	IV	2003	AM931219		this study
Ni1	IV	1980	AJ279932	AJ608212	(32)
Ni2	IV	1980	AJ279933	AJ608213	(32)
Ni4	IV	1980	AJ885150		(39)
Ni6	IV	1980	AJ885151		(39)
Ni131	IV	1980	AJ884691		(39)
Nia	IV	1980	U23142	U23142	direct submission
SL1	II	1975	AJ279935		(32)
SL2	II	1975	AJ279936		(32)
SL3	II	1975	AJ279937		(32)
SL4	II	1975	AJ608214	AJ608214	(32)
SL5	II	1975	AJ885152		(32)
SL6	II	1975	AJ279934		(32)
SL7	II	1975	AJ885153		(32)
Tc11	IV	2000	AJ317952		(39)
Tc17	IV	2000	AJ317953		(39)
Tc24	IV	2000	AJ317954		(39)

Tg1	IV	2000	AJ885166		(39)
Tg4	IV	2000	AJ885167		(39)
Tg7	IV	2000	AJ885168		(39)
Tg9	IV	2000	AJ885169		(39)
Tg12	IV	2000	AJ885170		(39)
Tg17	IV	2000	AJ885171		(39)
Tg21	IV	1999	AJ885172		(39)
Tz1	V	1997	AJ279938		(32)
Tz2	-	1997	AJ279939		(32)
Tz3	-	1997	AJ279940	AJ608216	(32)
Tz4	V	1997	AJ511793		(2)
Tz5	V	1997	AJ511794	AJ608217	(2)
Tz6	V	1997	AJ511795		(2)
Tz7	V	1997	AJ511796		(2)
Tz8	-	1996	AJ511797	AJ608218	(2)
Tz9	-	1997	AJ511798		(2)
Tz10	-	1997	AJ511799		(2)
Tz11	-	2001	AJ511800	AJ608215	(2)
Tz12	-	1997	AJ511801		(2)
Tz13	V	1997	AJ885154		(39)
Tz14	V	1997	AJ885155		(39)
Tz15	V	1997	AJ885156		(39)
Tz16	-	2002	AJ885157		(39)
Tz17	-	2002	AJ885158		(39)
Tz18	-	2002	AJ885159	AJ877020	(39)
Tz19	-	2002	AJ885160		(39)
Tz20	-	2002	AJ885161		(39)
Tz21	-	2002	AJ885162		(39)
Tz22	-	2002	AJ885163		(39)
Tz23	-	2002	AJ885164		(39)
Tz24	-	2002	AJ885165		(39)
Tz101	-	1999	AJ884693		(39)
Tz102	-	1999	AJ884705		(39)
Tz104	-	1999	AJ884690		(39)
Tz105	-	1999	AJ884697		(39)
Tz106	-	1999	AJ884715		(39)
Tz107	-	1999	AJ884696		(39)
Tz108	-	1999	AJ884695		(39)
Tz109	-	1999	AJ884694		(39)
Tz111	-	1999	AJ884714		(39)
Tz112	-	1999	AJ884712		(39)
Tz113	-	1999	AJ884711		(39)
Tz115	-	1999	AJ884710		(39)
Tz116	-	1999	AJ884709		(39)
Tz117	-	1999	AJ884708		(39)
Tz118	-	1999	AJ884707		(39)
Tz119	-	1999	AJ884706		(39)
Tz120	-	1999	AJ884692		(39)
Tz121	-	1999	AJ884704		(39)
Tz122	-	1999	AJ884688		(39)
Tz123	-	1999	AJ884703		(39)
Tz124	-	1999	AJ884702		(39)
Tz125	-	1999	AJ884701		(39)
Tz126	-	1999	AJ884700		(39)
Tz127	-	1999	AJ876793	AJ876793	(39)
Tz128	-	1999	AJ884689		(39)
Tz129	-	1999	AJ884713		(39)
Tz130	-	1999	AJ884699		(39)
Tz132	-	1999	AJ884698		(39)

Tz200	-	2005	AM931220		this study
Tz201	-	2005	AM931221		this study
Tz202	-	2005		AM883057	(34)
Tz203	-	2005	AM931222		this study
Tz204	-	2005	AM931223		this study
Tz205	-	2005	AM931224		this study
Tz206	-	2005	AM931225		this study
Tz207	-	2005	AM931226		this study
Tz208	-	2005	AM931227		this study
Tz209	-	2005		AM883058	(34)
Tz210	-	2005	AM931228		this study
Tz211	-	2005	AM931229		this study
Tz212	-	2005	AM931230		this study
Tz213	-	2005	AM931231		this study
Tz214	-	2005	AM931232		this study
Tz215	-	2005	AM931233		this study
Tz216	-	2005	AM931234		this study
Tz217	-	2005	AM931235		this study
Tz218	-	2005	AM931236		this study
Tz219	-	2005	AM931237		this study
Tz220	-	2005	AM931238		this study
Tz221	-	2005	AM931239		this study
Tz222	-	2005	AM931240		this study
Tz223	-	2005	AM931241		this study
Ug1	V	2000	AM114523		(39)
Ug2	V	2000	AM114524		(39)

¹Benin (Be), Burkina Faso (BF), Cameroon (Ca), Côte d'Ivoire (CI), Ghana (Gh), Guinea (Gu), Kenya (Ke), Mali (Ma), Madagascar (Mg), Niger (Ng), Nigeria (Ni), Sierra Leone (SL), Chad (Tc), Togo (Tg), Tanzania (Tz), Uganda (Ug).

² Each of the five groups comprised isolates from the same phylogenetic cluster, from the same region with the least population sub-division.

³ The sequence of the coat protein gene was used to estimate the substitution rate. The full sequence of 22 isolates representative of the genetic and geographic diversity of RYMV was used to assess the nucleotide diversity of the four ORF and of the full genome.