Supplementary Information

Table S1: Sample details reported for rabies viruses collected in Ghana and used in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample No.** | **Location** | **Submission Date** | **Africa Group** | **GenBank Ref.** |
| G1 | Accra\* | 29/04/08 | 1a | HQ256770 |
| G2 | Accra\* | 22/05/08 | 1a | HM368105 |
| G3 | Cape Coast | 30/04/08 | 1a | HM368113 |
| G4 | Amasaman | 26/06/08 | 1a | HM368123 |
| G5 | Accra\* | 30/10/08 | 1a | HM368133 |
| G6 | Achimota | 29/01/08 | 2 | HM368142 |
| G7 | Accra\* | 21/01/08 | 2 | HM368152 |
| G8 | Mallam | 20/05/08 | 1a | HM368161 |
| G9\*\* | Cape Coast | 07/07/08 | 1a | HM368163 |
| G10 | Mallam | 20/03/08 | 2 | HM368091 |
| G11 | Cape Coast | 02/05/08 | 1a | HM368092 |
| G12 | Tema | 10/03/08 | 2 | HM368093 |
| G13 | Labadi | 13/10/08 | 1b | HM368094 |
| G15 | Tema | 24/11/08 | 2 | HM368095 |
| G16 | Accra\* | 18/09/08 | 1a | HM368096 |
| G17 | Akosombo | 17/01/08 | 2 | HM368097 |
| G18 | Haatso | 10/10/08 | 2 | HM368098 |
| G20 | Dansoman | 11/02/08 | 1a | HM368099 |
| G24 | Madina | 03/01/08 | 2 | HM368100 |
| G25 | Kasoa | 02/07/08 | 1a | HM368101 |
| G27 | Accra\* | 28/05/08 | 2 | HM368102 |
| G28 | Accra\* | 04/11/08 | 1a | HM368103 |
| G29 | Accra\* | 11/12/08 | 1a | HM368104 |
| G30 | Accra\* | 21/11/08 | 1a | HM368106 |
| G32 | Abeka La-Paz | 13/05/08 | 1a | HM368107 |
| G34 | Pokuase | 25/06/08 | 1a | HM368108 |
| G35 | Cape Coast | 02/05/08 | 1a | HM368109 |
| G36 | Kofondua | 10/10/08 | 1a | HM368110 |
| G37 | Accra\* | 30/10/08 | 2 | HM368111 |
| G38 | Accra\* | 25/11/08 | 1a | HM368112 |
| G40 | Accra\* | 28/11/08 | 1a | HM368114 |
| G41 | Brekusa | 09/10/08 | 1a | HM368115 |
| G43 | Accra\* | 14/11/08 | 2 | HM368116 |
| G44 | Accra\* | 25/02/08 | 1a | HM368117 |
| G45 | Somanya | 30/07/08 | 2 | HM368118 |
| G46 | Kasoa | 05/08/08 | 2 | HM368119 |
| G47 | Accra\* | 14/01/08 | 1a | HM368120 |
| G48 | Accra\* | 09/04/08 | 2 | HM368121 |
| G49 | Tema | 29/09/08 | 2 | HM368122 |
| G50 | Accra\* | 06/11/08 | 2 | HM368124 |
| G51 | Tema | 29/09/08 | 2 | HM368125 |
| G52 | Accra\* | 23/10/08 | 2 | HM368126 |
| G53 | Tema | 26/02/08 | 2 | HM368127 |
| G55 | Accra\* | 01/10/08 | 1a | HM368128 |
| G56 | Accra\* | 04/12/08 | 1a | HM368129 |
| G57 | Burma Camp | 25/09/08 | 1a | HM368130 |
| G58 | Ashiaman | 16/09/08 | 2 | HM368131 |
| G59 | Accra\* | 28/04/08 | 2 | HM368132 |
| G60 | Saltpond | 15/08/08 | 1a | HQ256771 |
| G61 | Accra\* | 18/11/08 | 1a | HM368134 |
| G62 | Accra\* | 24/11/08 | 1a | HM368135 |
| G63 | Teshie | 30/09/08 | 1a | HM368136 |
| G64 | Labadi | 07/10/08 | 1a | HM368137 |
| G66 | Nii Boi Town | 05/08/08 | 1a | HM368138 |
| G67 | Ashile Botwet | 28/09/08 | 2 | HM368139 |
| G68 | Tema | 31/03/08 | 2 | HM368140 |
| G69 | Macarthy hills | 04/06/08 | 1a | HM368141 |
| G70 | Cape Coast | 02/07/08 | 1a | HM368143 |
| G71 | Burma Camp | 08/10/08 | 1a | HM368144 |
| G72 | Accra\* | 30/04/08 | 1a | HM368145 |
| G74 | Accra\* | 18/11/08 | 2 | HM368146 |
| G75 | Dawsoman | 25/06/08 | 1a | HM368147 |
| G76 | Accra\* | 25/04/08 | 1a | HM368148 |
| G77 | Tema | 29/08/08 | 1a | HM368149 |
| G78 | Abeka La-Paz | 23/06/08 | 1a | HM368150 |
| G79 | Accra\* | 28/05/08 | 2 | HM368151 |
| G80 | Juapong | 25/06/08 | 2 | HM368153 |
| G82 | Tema | 16/09/08 | 2 | HM368154 |
| G83 | Gbawe | 08/10/08 | 1a | HM368155 |
| G85 | Kokrobitey | 23/07/09 | 1a | HM368156 |
| G86 | Accra\* | 29/06/09 | 1a | HM368157 |
| G87 | Accra\* | 02/07/09 | 1a | HM368158 |
| G88\*\* | Legon | 02/07/09 | 1a | HM368159 |
| G89 | Kwabenya | 13/07/09 | 1a | HM368160 |
| G90 | Dome | 19/06/09 | 1a | HQ256772 |
| G93 | Asamankese | 21/12/07 | 1a | HM368162 |

\* These viruses had no specific location reported within Accra.

\*\* These viruses were from cats

 Table S2. Details of further rabies virus sequences used in this study.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| GenBank accession number | Original reference\* | Origin | Year isolated | Location | Phylogenetic analysis | Reference |
| EU853567 | - | Human | 1996 | Algeria | Africa 1 | Talbi et al, 2009 [13] |
| EU853568 | - | Human | 1996 | Algeria | Africa 1 | Talbi et al, 2009 [13] |
| U22643 | - | Dog | 1982 | Algeria | Overall & Africa 1 | Kissi et al, 1995[15] |
| U22485 | - | Cat | 1986 | Benin | Overall & Africa 2 | Kissi et al, 1995[15] |
| AY330739 | RV391 | Bovine | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330761 | RV481 | Jackal | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330737 | RV389 | Jackal | 1990 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330733 | RV385 | Jackal | 1988 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330738 | RV390 | Dog | 1990 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330740 | RV392 | Goat | 1988 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330741 | RV393 | Dog | 1989 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330763 | RV483 | Genet | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330764 | RV484 | Duiker | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330762 | RV482 | Goat | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330735 | - | Mongoose | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330752 | - | Dog | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330748 | - | Goat | 1988 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330736 | - | Bovine | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330734 | - | Bovine | 1990 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| AY330753 | - | Dog | 1991 | Botswana | Africa 1 | Johnson et al 2004b [24] |
| U22486 | - | Dog | 1986 | Burkina Faso | Overall & Africa 2 | Kissi et al, 1995[15] |
| EU853645 | - | Dog | 1995 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827268 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827269 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827270 | - | Cat | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827272 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827273 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827274 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827275 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU827271 | - | Dog | 2007 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU478492 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478502 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478523 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478519 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478522 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478521 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478520 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478524 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU853645 | - | Dog | 1995 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU478518 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU853614 | - | Dog | 1986 | Burkina Faso | Africa 2 | Talbi et al, 2009 [13] |
| EU478515 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU478500 | - | Dog | 2007 | Burkina Faso | Africa 2 | De Benedictis et al, 2009 [16] |
| EU853583 | - | Jackal | 1990 | Burundi | Africa 1 | Talbi et al, 2009 [13] |
| U22634 | - | Dog | 1987 | Cameroon | Overall & Africa 2 | Kissi et al, 1995[15] |
| U22635 | - | Dog | 1988 | Cameroon | Africa 2 | Kissi et al, 1995[15] |
| U22636 | - | Dog | 1988 | Cameroon | Africa 2 | Kissi et al, 1995[15] |
| U22650 | - | Dog | 1992 | Central African Republic | Overall & Africa 1 | Kissi et al, 1995[15] |
| U22651 | - | Dog | 1992 | Central African Republic | Africa 1 | Kissi et al, 1995[15] |
| EU853586 | - | Dog | 2003 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853590 | - | Dog | 2000 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853651 | - | Dog | 2004 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853584 | - | Dog | 2004 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853585 | - | Dog | 2005 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853587 | - | Dog | 2006 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853588 | - | Dog | 2006 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| EU853589 | - | Dog | 2007 | Central African Republic | Africa 1 | Talbi et al, 2009 [13] |
| U22644 | - | Dog | 1992 | Chad | Overall & Africa 2 | Kissi et al, 1995[15] |
| EU718786 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718778 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718782 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718779 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU853656 | - | Dog | 1987 | Chad | Africa 2 | Talbi et al, 2009 [13] |
| EU853655 | - | Dog | 1987 | Chad | Africa 2 | Talbi et al, 2009 [13] |
| EU853657 | - | Dog | 1987 | Chad | Africa 2 | Talbi et al, 2009 [13] |
| EU853652 | - | Dog | 1990 | Chad | Africa 2 | Talbi et al, 2009 [13] |
| EU853653 | - | Dog | 1996 | Chad | Africa 2 | Talbi et al, 2009 [13] |
| EU718735 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718771 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718736 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718783 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718766 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718763 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718785 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718742 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718762 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718759 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718740 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718765 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| EU718777 | - | Dog | 2006 | Chad | Africa 2 | Durr et al, 2008 [52] |
| U22638 | - | Dog | 1989 | Democratic Republic of Congo | Overall & Africa 1 | Kissi et al, 1995[15] |
| U22627 | - | Human | 1979 | Egypt | Africa 1 | Kissi et al, 1995[15] |
| DQ837461 | - | Dog | 1999 | Egypt | Africa 1 | David et al, 2007 [31] |
| FJ440104 | - | Human | 2008 | Equatorial Guinea | Africa 1 | Rubin et al, 2009 [56] |
| U22637 | - | Hyena | 1987 | Ethiopia | Africa 1 | Kissi et al, 1995[15] |
| EU853581 | - | Dog | 1988 | Ethiopia | Africa 1 | Talbi et al, 2009 [13] |
| EU853580 | - | Bovine | 1987 | Ethiopia | Africa 1 | Talbi et al, 2009 [13] |
| U22630 | - | Dog | 1986 | Gabon | Overall & Africa 1 | Kissi et al, 1995[15] |
| U22629 | - | Dog | 1986 | Gabon | Africa 1 | Kissi et al, 1995[15] |
| EU853591 | - | Dog | 2008 | Gambia | Africa 2 | Talbi et al, 2009 [13] |
| U22641 | - | Dog | 1990 | Guinea | Overall & Africa 2 | Kissi et al, 1995[15] |
| U22487 | - | Dog | 1986 | Guinea | Overall & Africa 2 | Kissi et al, 1995[15] |
| EU853594 | - | Dog | 1993 | Guinea | Africa 2 | Talbi et al, 2009 [13] |
| EU853593 | - | Dog | 1986 | Guinea | Africa 2 | Talbi et al, 2009 [13] |
| U22639 | - | Dog | 1989 | Ivory Coast | Overall & Africa 2 | Kissi et al, 1995[15] |
| U22646 | - | Dog | 1990 | Ivory Coast | Overall & Africa 2 | Kissi et al, 1995[15] |
| EU853615 | - | Dog | 2007 | Ivory Coast | Overall & Africa 2 | Talbi et al, 2009 [13] |
| EU853616 | - | Dog | 1989 | Ivory Coast | Overall & Africa 2 | Talbi et al, 2009 [13] |
| EU853618 | - | Dog | 1992 | Ivory Coast | Africa 2 | Talbi et al, 2009 [13] |
| EU853619 | - | Dog | 1992 | Ivory Coast | Africa 2 | Talbi et al, 2009 [13] |
| EU853617 | - | Dog | 1989 | Ivory Coast | Africa 2 | Talbi et al, 2009 [13] |
| EU853621 | - | Dog | 1989 | Ivory Coast | Africa 2 | Talbi et al, 2009 [13] |
| EU853618 | - | Dog | 1992 | Ivory Coast | Africa 2 | Talbi et al, 2009 [13] |
| AY502137 | RV749 | Unknown | 1995 | Kenya | Africa 1 | Johnson et al, 2004a [57] |
| AY103013 | RV460 | Dog | 1994 | Kenya | Africa 1 | Johnson et al, 2004a [57] |
| AY502136 | RV748 | Unknown | 1995 | Kenya | Africa 1 | Johnson et al, 2004a [57] |
| AY502138 | RV754 | Unknown | 1995 | Kenya | Africa 1 | Johnson et al, 2004a [57] |
| DQ420623 | - | Human | 2004 | Madagascar | Africa 1 | Iehle et al, 2008 [58] |
| EU853623 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853622 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853620 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853612 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| U22649 | - | Jackal | 1992 | Namibia | Overall & Africa 1 | Kissi et al, 1995[15] |
| EU853601 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853598 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853602 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853605 | - | Dog | 2006 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853612 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853599 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853597 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853603 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853596 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853604 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| EU853600 | - | Dog | 2007 | Mali | Africa 2 | Talbi et al, 2009 [13] |
| DQ194864 | RV1497 | Jackal | 2000 | Namibia | Africa 1 | Mansfield et al, 2006 [28] |
| DQ194865 | RV1498 | Jackal | 2000 | Namibia | Africa 1 | Mansfield et al, 2006 [28] |
| DQ194866 | RV1499 | Jackal | 2000 | Namibia | Africa 1 | Mansfield et al, 2006 [28] |
| DQ194861 | RV1493 | Kudu | 2003 | Namibia | Africa 1 | Mansfield et al, 2006 [28] |
| DQ194863 | RV1494 | Kudu | 2003 | Namibia | Africa 1 | Mansfield et al, 2006 [28] |
| U22632 | - | Kudu | 1987 | Namibia | Africa 1 | Kissi et al, 1995[15] |
| U22489 | - | Camel | 1986 | Mauritania | Africa 1 | Kissi et al, 1995[15] |
| EU853624 | - | Camel | 1991 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853642 | - | Goat | 1991 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853613 | - | Donkey | 1991 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853607 | - | Dog | 1991 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853608 | - | Dog | 1991 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853611 | - | Dog | 1994 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853610 | - | Dog | 1993 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853609 | - | Dog | 1993 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU853606 | - | Dog | 1993 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514581 | - | Goat | 2007 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514578 | - | Dog | 2006 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514576 | - | Dog | 2005 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514577 | - | Dog | 2005 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514575 | - | Dog | 2005 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| EU514580 | - | Dog | 2006 | Mauritania | Africa 1 | Talbi et al, 2009 [13] |
| U22631 | - | Dog | 1986 | Morocco | Overall & Africa 1 | Kissi et al, 1995[15] |
| EU853572 | - | Human | 1986 | Morocco | Africa 1 | Talbi et al, 2009 [13] |
| EU853571 | - | Human | 1991 | Morocco | Africa 1 | Talbi et al, 2009 [13] |
| EU853569 | - | Dog | 1990 | Morocco | Africa 1 | Talbi et al, 2009 [13] |
| EU853570 | - | Human | 1991 | Morocco | Africa 1 | Talbi et al, 2009 [13] |
| U22852 | - | Human | 1990 | Morocco | Africa 1 | Kissi et al, 1995[15] |
| U22642 | - | Fox | 1990 | Morocco | Africa 1 | Kissi et al, 1995[15] |
| U22484 | - | Dog | 1986 | Mozambique | Africa 1 | Kissi et al, 1995[15] |
| U22640 | - | Dog | 1990 | Niger | Overall & Africa 2 | Kissi et al, 1995[15] |
| EU853646 | - | Dog | 1990 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU853647 | - | Dog | 1990 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU853649 | - | Dog | 1990 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU853648 | - | Dog | 1990 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU514573 | - | Dog | 2007 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU514574 | - | Dog | 2007 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU514572 | - | Dog | 2007 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU514571 | - | Dog | 2007 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| EU853650 | - | Dog | 1987 | Niger | Africa 2 | Talbi et al, 2009 [13] |
| U22488 | - | Human | 1983 | Nigeria | Overall & Africa 1 | Kissi et al, 1995[15] |
| AY103008 | RV629 | Dog | 1996 | Nigeria | Africa 1 | Johnson et al, 2004a [57] |
| EU038091 | - | Dog | 2005 | Nigeria | Africa 2 | - |
| EU038092 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038093 | - | Dog | 2005 | Nigeria | Africa 2 | - |
| EU038094 | - | Dog | 2005 | Nigeria | Africa 2 | - |
| EU038096 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038097 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038090 | - | Dog | 2005 | Nigeria | Africa 2 | - |
| EU038099 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038089 | - | Dog | 2005 | Nigeria | Africa 2 | - |
| EU038095 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038082 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038101 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038102 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038103 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038105 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038106 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038107 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038108 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038109 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038098 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU038104 | - | Dog | 2006 | Nigeria | Africa 2 | - |
| EU853582 | - | Dog | 1995 | Rwanda | Africa 1 | Talbi et al, 2009 [13] |
| EU853631 | - | Human | 2005 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853632 | - | Human | 2005 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853633 | - | Human | 2004 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853634 | - | Dog | 2004 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853635 | - | Human | 2006 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853636 | - | Human | 2006 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853637 | - | Human | 2003 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853638 | - | Human | 1995 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853639 | - | Human | 2004 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853640 | - | Human | 1996 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853641 | - | Dog | 1991 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853643 | - | Human | 2003 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853644 | - | Human | 2001 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853625 | - | Dog | 1995 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853626 | - | Human | 1997 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853627 | - | Human | 2002 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853628 | - | Human | 2007 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853629 | - | Cat | 2006 | Senegal | Africa 2 | Talbi et al, 2009 [13] |
| EU853595 | - | Cat | 1997 | Sierra Leone | Africa 2 | Talbi et al, 2009 [13] |
| U22628 | - | Mongoose | 1987 | South Africa | Overall & Africa 1 | Kissi et al, 1995[15] |
| AY502126 | RV1346 | Dog | 2001 | Sudan | Africa 1 | Johnson et al, 2004a [57] |
| AY502127 | RV1352 | Dog | 2001 | Sudan | Africa 1 | Johnson et al, 2004a [57] |
| AY502125 | RV1342 | Dog | 2001 | Sudan | Africa 1 | Johnson et al, 2004a [57] |
| AY502128 | RV1360 | Dog | 2001 | Sudan | Africa 1 | Johnson et al, 2004a [57] |
| U22645 | - | Dog | 1992 | Tanzania | Overall & Africa 1 | Kissi et al, 1995[15] |
| U22647 | - | Cow | 1992 | Tanzania | Africa 1 | Kissi et al, 1995[15] |
| HQ660809 | RV1012 | Dog | 2000 | Tanzania | Africa 1 | Lembo et al, 2007 [18]\*\* |
| HQ660808 | RV1011 | Dog | 2000 | Tanzania | Africa 1 | Lembo et al, 2007 [18]\*\* |
| DQ900555 | RV1013 | Dog | 2000 | Tanzania | Africa 1 | Lembo et al, 2007 [18] |
| DQ900556 | - | Dog | 2003 | Tanzania | Africa 1 | Lembo et al, 2007 [18] |
| DQ900559 | - | Goat | 1997 | Tanzania | Africa 1 | Lembo et al, 2007 [18] |
| DQ900569 | - | Hyena | 2004 | Tanzania | Africa 1 | Lembo et al, 2007 [18] |
| DQ900570 | - | Genet | 2003 | Tanzania | Africa 1 | Lembo et al, 2007 [18] |
| EU853579 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |
| EU853578 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |
| EU853577 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |
| EU853576 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |
| EU853575 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |
| EU853574 | - | Human | 1986 | Tunisia | Africa 1 | Talbi et al, 2009 [13] |

\* 405 nucleotide (nt) regions from the VLA archive were used for this analysis.

\*\* 405 nucleotide (nt) regions from the VLA archive were used for this analysis and the updated sequences submitted to GenBank.

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