**Table S5. Variants information present in Nigerian cattle based on mtDNA**

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| **S/NO** | **Sample Name** | **Variants** |
| 1 | 202\_JOS\_NIG | 16015,16068,16255 16015,16050,16068,16113,16255 |
| 2 | 22\_SOK\_NIG | 68T,16050,16113,16255 |
| 3 | 23\_SOK\_NIG | 16127,16255,16050,16113,16127,1625 |
| 4 | 28\_SOK\_NIG | 16255,16022,16050,16113,1625 |
| 5 | 24\_SOK\_NIG | 112C,114,16022,16050,16113,16133,16255 |
| 6 | 25\_SOK\_NIG | 16085,16255,16050,16085,16113,1625 |
| 7 | 26\_SOK\_NIG | 123G,16133,16255,16301,123G,16022,16050,16113,16133,16255,1630 |
| 8 | 27\_SOK\_NIG | 8,16095,16249,16255,16260 |
| 9 | 102\_KAD\_NIG | 106,16050,16074,16113,16139,16255 |
| 10 | 10\_SOK\_NIG | 16050,16051,16113,16197,16255 |
| 11 | 1012\_IBA\_NIG | 16050,16113,16131,16195,16255 |
| 12 | 1019\_KAN\_NIG | 16050,16113,16247 |
| 13 | 1046\_ZAM\_NIG | 16050,16113,16231 |
| 14 | 129\_KAD\_NIG | 106,16050,16113,16255 |
| 15 | 130\_KAD\_NIG | 16050,16057,16113,16255,16301 |
| 16 | 132\_KAD\_NIG | 15965,16050,16094,16113,16255 |
| 17 | 135\_KAD\_NIG | 16050,16113,16255 |
| 18 | 138\_KAD\_NIG | 16050,16113,16255,16260,16301 |
| 19 | 140\_KAD\_NIG | 16050,16057,16113,16255,16301 |
| 20 | 143\_KAD\_NIG | 106,16050,16113,16255,16301 |
| 21 | 15\_SOK\_NIG | 16022,16050,16084,16113,16138,16255 |
| 22 | 154\_JOS\_NIG | 16050,16113,16121,16255 |
| 23 | 17\_SOK\_NIG | 16022,16050,16084,16113,16138,16255 |
| 24 | 171\_JOS\_NIG | 16050,16113,16127,16255 |
| 25 | 195\_JOS\_NIG | 16022,16050,16113,16255 |
| 26 | 21\_SOK\_NIG | 16050,16113,16127,16255 |
| 27 | 269\_SOK\_NIG | 16022,16050,16113,16121,16255 |
| 28 | 276\_ZAM\_NIG | 106,16050,16113,16126,16197,16255 |
| 29 | 278\_ZAM\_NIG | 16022,16050,16113,16255 |
| 30 | 280\_ZAM\_NIG | 15965,16050,16113,16255 |
| 31 | 29\_SOK\_NIG | 16050,16113,16232,16255 |
| 32 | 3\_SOK\_NIG | 16022,16050,16113,16255 |
| 33 | 32\_KAT\_NIG | 16050,16113,16138,16255 |
| 34 | 34\_KAT\_NIG | 106,16022,16050,16113,16255 |
| 35 | 37\_KAT\_NIG | 16050,16113 |
| 36 | 39\_KAT\_NIG | 15921,16050,16113,16197,16247,16255 |
| 37 | 4\_SOK\_NIG | 16050,16113,16255 |
| 38 | 44\_SOK\_NIG | 16050,16113,16135,16255 |
| 39 | 5\_SOK\_NIG | 16050,16113,16255 |
| 40 | 52\_TAR\_NIG | 16050,16057,16085,16113,16248,16255 |
| 41 | 53\_TAR\_NIG | 16050,16051,16113,16255 |
| 42 | 55\_TAR\_NIG | 16022,16050,16113,16133,16255 |
| 43 | 57\_TAR\_NIG | 15958,16022,16050,16113,16139,16255 |
| 44 | 58\_TAR\_NIG | 16022,16050,16113,16248,16255 |
| 45 | 59\_TAR\_NIG | 16050,16108,16113,16119,16255 |
| 46 | 6\_SOK\_NIG | 16050,16113,16255,16301 |
| 47 | 61\_TAR\_NIG | 16050,16057,16113,16255 |
| 48 | 64\_TAR\_NIG | 16050,16113,16232,16255 |
| 49 | 69\_TAR\_NIG | 16050,16056,16113,16255 |
| 50 | 7\_SOK\_NIG | 16050,16057,16113,16231,16255 |
| 51 | 70\_TAR\_NIG | 16050,16113,16195,16255 |
| 52 | 71\_TAR\_NIG | 15921,16113,16197,16255 |
| 53 | 72\_TAR\_NIG | 16050,16113,16255 |
| 54 | 8\_SOK\_NIG | 106,16050,16113,16255 |
| 55 | 87\_TAR\_NIG | 16050,16113,16121,16255 |
| 56 | 88\_TAR\_NIG | 15953,16050,16068,16113,16139,16255 |
| 57 | 9\_SOK\_NIG | 16050,16113,16195,16255 |
| 58 | 90\_TAR\_NIG | 106,107,16022,16050,16113,16255 |
| 59 | 91\_TAR\_NIG | 15939,16050,16113,16255 |
| 60 | 92\_TAR\_NIG | 16050,16108,16113,16122,16131,16196,16255 |
| 61 | 93\_TAR\_NIG | 16050,16113,16248,16255 |
| 62 | 94\_TAR\_NIG | 16050,16113,16231 |
| 63 | 99\_KAD\_NIG | 16050,16074,16113,16121,16135,16247,16255 |
| 64 | 104\_KAD\_NIG | 16050,16113,16248,16255 |
| 65 | 146\_KAD\_NIG | 16050,16057,16085,16113,16248,16255 |
| 66 | 148\_KAD\_NIG | 16050,16109,16113,16138,16255 |
| 67 | 152\_JOS\_NIG | 16022,16050,16113,16133,16255 |
| 68 | 153\_JOS\_NIG | 16050,16085,16113,16248,16255,16260,16264 |
| 69 | 158\_JOS\_NIG | 106,16022,16050,16112,16113,16250,16255 |
| 70 | 162\_JOS\_NIG | 100,123G,16050,16113,16255 |
| 71 | 163\_JOS\_NIG | 106,113,123G,15965,16050,16113,16195,16255 |
| 72 | 167\_JOS\_NIG | 123G,16050,16057,16113,16255 |
| 73 | 174\_JOS\_NIG | 123G,15959,16050,16113,16255 |
| 74 | 176\_JOS\_NIG | 16050,16113,16255,16302 |
| 75 | 181\_JOS\_NIG | 16050,16113,16255 |
| 76 | 187\_JOS\_NIG | 106,113,16050,16113,16126,16255 |
| 77 | 1034\_SOK\_NIG | 16022,16050,16113,16255 |
| 78 | 275\_ZAM\_NIG | 16022,16050,16113,16255 |
| 79 | 199\_JOS\_NIG | 16050,16108,16113,16255 |
| 80 | 261\_SOK\_NIG | 16050,16051,16113,16197,16255 |
| 81 | 200\_JOS\_NIG | 16050,16113,16255 |
| 82 | 268\_SOK\_NIG | 16050,16113,16255 |
| 83 | 270\_SOK\_NIG | 16050,16113,16255 |
| 84 | 194\_JOS\_NIG | 16050,16113,16255 |
| 85 | 283\_ZAM\_NIG | 16016,16022,16050,16058,16113,16255 |
| 86 | 198\_JOS\_NIG | 16050,16053,16113,16195,16255 |
| 87 | 197\_JOS\_NIG | 8,16050,16113,16131,16135,16255 |
| 88 | 282\_ZAM\_NIG | 16050,16113,16247,16255 |
| 89 | 255\_KAN\_NIG | 15965,16050,16113,16135,16141,16255 |
| 90 | 20\_SOK\_NIG | 16050,16057,16113,16231,16255 |
| 91 | 271\_SOK\_NIG | 106,16050,16113,16130,16247,16255 |
| 92 | 257\_KAN\_NIG | 16050,16113,16195,16255 |
| 93 | 251\_KAN\_NIG | 16050,16058,16113,16143,16255 |
| 94 | 201\_JOS\_NIG | 106,16050,16067,16113,16255 |
| 95 | 45\_TAR\_NIG | 16050,16113,16232,16255 |
| 96 | 46\_TAR\_NIG | 16050,16113,16139,16247,16255 |
| 97 | 47\_TAR\_NIG | 15930,16050,16113,16255 |
| 98 | 49\_TAR\_NIG | 16022,16050,16113,16133,16255 |
| 99 | 51\_TAR\_NIG | 16050,16113,16232,16255 |
| 100 | 1047\_ZAM\_NIG | 106,16050,16113,16130,16247,16255 |
| 101 | 73\_TAR\_NIG | 16022,16050,16113,16255,16301 |
| 102 | 74\_TAR\_NIG | 15915,16050,16068,16113,16255 |
| 103 | 75\_TAR\_NIG | 16022,16050,16113,16255,16301 |
| 104 | 76\_TAR\_NIG | 16050,16113,16255 |
| 105 | 78\_TAR\_NIG | 106,16050,16053,16084,16113,16255,16301,16302 |
| 106 | 79\_TAR\_NIG | 16050,16113,16121,16255 |
| 107 | 80\_TAR\_NIG | 106,16016,16050,16113,16255 |
| 108 | 81\_TAR\_NIG | 16022,16050,16113,16247,16255 |
| 109 | 83\_TAR\_NIG | 16050,16113,16255 |
| 110 | 85\_TAR\_NIG | 16022,16050,16113,16126,16255 |
| 111 | 86\_TAR\_NIG | 16050,16113,16248,16255 |
| 112 | 110\_KAD\_NIG | 16022,16050,16057,16074,16113,16141,16255 |
| 113 | 111\_KAD\_NIG | 16113,16204,16255 |
| 114 | 112\_KAD\_NIG | 16050,16113,16247,16255 |
| 115 | 115\_KAD\_NIG | 16050,16053,16113,16255 |
| 116 | 116\_KAD\_NIG | 106,15894,16050,16113,16255 |
| 117 | 127\_KAD\_NIG | 16050,16057,16113,16255,16301 |
| 118 | 151\_JOS\_NIG | 15949,16050,16074,16113,16131,16255 |
| 119 | 107\_KAD\_NIG | 15830,16022,16050,16113,16255 |