**Supplementary Table 1**: **HBoV gene coding sequence dataset.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | SEQUENCES \ PARAMETERS | GENE | LENGTH | ISOLATIONS |
| 1 | DQ494203.1 | VP1 | 2016 | China |
| 2 | DQ494201.1 | VP1 | 2016 | China |
| 3 | EF035488.1 | VP1 | 2016 | Japan |
| 4 | DQ457415.1 | VP1 | 2016 | China |
| 5 | MN887265.1 | NS1 | 1920 | China |
| 6 |  | NP1 | 660 | China |
| 7 |  | VP1 | 2016 | China |
| 8 |  | VP2 | 1629 | China |
| 9 | MN887264.1 | NS1 | 1920 | China |
| 10 |  | NP1 | 660 | China |
| 11 |  | VP1 | 2016 | China |
| 12 |  | VP2 | 1629 | China |
| 13 | MN887263.1 | NS1 | 1920 | China |
| 14 | MN887262.1 | NS1 | 1920 | China |
| 15 |  | NP1 | 660 | China |
| 16 |  | VP1 | 2016 | China |
| 17 |  | VP2 | 1629 | China |
| 18 | MN887261.1 | NS1 | 1920 | China |
| 19 |  | NP1 | 660 | China |
| 20 |  | VP1 | 2016 | China |
| 21 |  | VP2 | 1629 | China |
| 22 | MN887260.1 | NS1 | 1920 | China |
| 23 |  | NP1 | 660 | China |
| 24 |  | VP1 | 2016 | China |
| 25 |  | VP2 | 1629 | China |
| 26 | MN887259.1 | NS1 | 1920 | China |
| 27 |  | NP1 | 660 | China |
| 28 |  | VP1 | 2016 | China |
| 29 |  | VP2 | 1629 | China |
| 30 | MN887258.1 | NS1 | 1920 | China |
| 31 |  | NP1 | 660 | China |
| 32 |  | VP1 | 2016 | China |
| 33 |  | VP2 | 1629 | China |
| 34 | MN887257.1 | NS1 | 1920 | China |
| 35 |  | NP1 | 660 | China |
| 36 |  | VP1 | 2016 | China |
| 37 |  | VP2 | 1629 | China |
| 38 | MN887256.1 | NS1 | 1920 | China |
| 39 |  | NP1 | 660 | China |
| 40 |  | VP1 | 2016 | China |
| 41 |  | VP2 | 1629 | China |
| 42 | MN887255.1 | NS1 | 1920 | China |
| 43 |  | NP1 | 660 | China |
| 44 |  | VP1 | 2016 | China |
| 45 |  | VP2 | 1629 | China |
| 46 | MN887254.1 | NS1 | 1920 | China |
| 47 |  | NP1 | 660 | China |
| 48 |  | VP1 | 2016 | China |
| 49 |  | VP2 | 1629 | China |
| 50 | MN887253.1 | NS1 | 1920 | China |
| 51 |  | NP1 | 660 | China |
| 52 |  | VP1 | 2016 | China |
| 53 |  | VP2 | 1629 | China |
| 54 | MK989729.1 | NS1 | 1920 | China |
| 55 |  | NP1 | 660 | China |
| 56 |  | VP1 | 1980 | Kenya |
| 57 | MK989728.1 | NS1 | 1920 | Kenya |
| 58 |  | NP1 | 660 | Kenya |
| 59 |  | VP1 | 1980 | Kenya |
| 60 | MK989727.1 | NS1 | 1920 | Kenya |
| 61 |  | NP1 | 660 | Kenya |
| 62 |  | VP1 | 1980 | Kenya |
| 63 | MH427514.1 | NP1 | 390 | Saudi Arabia |
| 64 |  | VP1 | 2016 | Saudi Arabia |
| 65 |  | VP2 | 1629 | Saudi Arabia |
| 66 | MH427513.1 | NP1 | 390 | Saudi Arabia |
| 67 |  | VP1 | 2016 | Saudi Arabia |
| 68 |  | VP2 | 1629 | Saudi Arabia |
| 69 | MH427512.1 | NP1 | 390 | Saudi Arabia |
| 70 |  | VP1 | 2016 | Saudi Arabia |
| 71 |  | VP2 | 1629 | Saudi Arabia |
| 72 | MH427511.1 | NP1 | 390 | Saudi Arabia |
| 73 |  | VP1 | 2016 | Saudi Arabia |
| 74 |  | VP2 | 1629 | Saudi Arabia |
| 75 | KJ710645.1 | NS1 | 1986 | Russia |
| 76 |  | NP1 | 657 | Russia |
| 77 |  | VP1 | 2007 | Russia |
| 78 |  | VP2 | 1620 | Russia |
| 79 | EF690657.1 | VP1 | 1182 | Thailand |
| 80 | EF690656.1 | VP1 | 1182 | Thailand |
| 81 | EF690655.1 | VP1 | 1182 | Thailand |
| 82 | EF690654.1 | VP1 | 1182 | Thailand |
| 83 | EF690653.1 | VP1 | 1182 | Thailand |
| 84 | EF690652.1 | VP1 | 1182 | Thailand |
| 85 | EF690651.1 | VP1 | 1182 | Thailand |
| 86 | EF690650.1 | VP1 | 1182 | Thailand |
| 87 | EF690649.1 | VP1 | 1182 | Thailand |
| 88 | EF690648.1 | VP1 | 1182 | Thailand |
| 89 | EF690647.1 | VP1 | 1182 | Thailand |
| 90 | EF690646.1 | VP1 | 1182 | Thailand |
| 91 | EF690645.1 | VP1 | 1182 | Thailand |
| 92 | EF690644.1 | VP1 | 1182 | Thailand |
| 93 | EF690642.1 | VP1 | 1182 | Thailand |
| 94 | EF690643.1 | VP1 | 1182 | Thailand |
| 95 | EF690641.1 | VP1 | 1182 | Thailand |
| 96 | JX445151.1 | NS1 | 1920 | China |
| 97 | JX445150.1 | NS1 | 1920 | China |
| 98 | JX434055.1 | VP1/VP2 | 2016 | China |
| 99 | JX434054.1 | VP1/VP2 | 2016 | China |
| 100 | JX434053.1 | VP1/VP2 | 2016 | China |
| 101 | JX434052.1 | VP1/VP2 | 2016 | China |
| 102 | JX434051.1 | VP1/VP2 | 2016 | China |
| 103 | JX434048.1 | NP1 | 660 | China |
| 104 | JX434047.1 | NP1 | 660 | China |
| 105 | JX434046.1 | NP1 | 660 | China |
| 106 | JX434045.1 | NP1 | 660 | China |
| 107 | JF272513.1 | VP1 | 2016 | China |
| 108 | JF272513.1 | VP2 | 1629 | China |
| 109 | JF272512.1 | VP1 | 2016 | China |
| 110 |  | VP2 | 1629 | China |
| 111 | JF272511.1 | VP1 | 2016 | China |
| 112 |  | VP2 | 1629 | China |
| 113 | JF272510.1 | VP1 | 2016 | China |
| 114 |  | VP2 | 1629 | China |
| 115 | JF272509.1 | VP1 | 2016 | China |
| 116 |  | VP2 | 1629 | China |
| 117 | JF272508.1 | VP1 | 2016 | China |
| 118 |  | VP2 | 1629 | China |
| 119 | JF272507.1 | VP1 | 2016 | China |
| 120 |  | VP2 | 1629 | China |
| 121 | JF272506.1 | VP1 | 2016 | China |
| 122 |  | VP2 | 1629 | China |
| 123 | JF272505.1 | VP1 | 2016 | China |
| 124 |  | VP2 | 1629 | China |
| 125 | JF272504.1 | VP1 | 2016 | China |
| 126 |  | VP2 | 1629 | China |
| 127 | JF272503.1 | VP1 | 2016 | China |
| 128 |  | VP2 | 1629 | China |
| 129 | DQ677522.1 | NP1 | 660 | China |
| 130 | EU984097.1 | NS1 | 1920 | Japan |
| 131 | EU984096.1 | NP1 | 660 | Japan |
| 132 | MN887276.1 | NS1 | 1920 | China |
| 133 |  | NP1 | 660 | China |
| 134 |  | VP1 | 2016 | China |
| 135 |  | VP2 | 1629 | China |
| 136 | MN887275.1 | NS1 | 1920 | China |
| 137 |  | NP1 | 660 | China |
| 138 |  | VP1 | 2016 | China |
| 139 |  | VP2 | 1629 | China |
| 140 | MN887273.1 | NS1 | 1920 | China |
| 141 |  | NP1 | 660 | China |
| 142 |  | VP1 | 2016 | China |
| 143 |  | VP2 | 1629 | China |
| 144 | MN887272 | NS1 | 1920 | China |
| 145 |  | NP1 | 660 | China |
| 146 |  | VP1 | 2016 | China |
| 147 |  | VP2 | 1629 | China |
| 148 | MN887274 | NS1 | 1920 | China |
| 149 |  | NP1 | 660 | China |
| 150 |  | VP1 | 2016 | China |
| 151 |  | VP2 | 1629 | China |
| 152 | MN887271.1 | NS1 | 1920 | China |
| 153 |  | NP1 | 660 | China |
| 154 |  | VP1 | 2016 | China |
| 155 |  | VP2 | 1629 | China |
| 156 | MN887270.1 | NS1 | 1920 | China |
| 157 |  | NP1 | 660 | China |
| 158 |  | VP1 | 2016 | China |
| 159 |  | VP2 | 1629 | China |
| 160 | MN887269.1 | NS1 | 1920 | China |
| 161 |  | NP1 | 660 | China |
| 162 |  | VP1 | 2016 | China |
| 163 |  | VP2 | 1629 | China |
| 164 | MN887268.1 | NS1 | 1920 | China |
| 165 |  | NP1 | 660 | China |
| 166 |  | VP1 | 2016 | China |
| 167 |  | VP2 | 1629 | China |
| 168 | MN887267.1 | NS1 | 1920 | China |
| 169 |  | NP1 | 660 | China |
| 170 |  | VP1 | 2016 | China |
| 171 |  | VP2 | 1629 | China |
| 172 | MN887266.1 | NS1 | 1920 | China |
| 173 |  | NP1 | 660 | China |
| 174 |  | VP1 | 2016 | China |
| 175 |  | VP2 | 1629 | China |
| 176 | JF272502.1 | VP1 | 2016 | China |
| 177 |  | VP2 | 1629 | China |
| 178 | JF272501.1 | VP1 | 2016 | China |
| 179 |  | VP2 | 1629 | China |
| 180 | HQ441229.1 | VP1 | 2016 | China |
| 181 | HQ441228.1 | VP1 | 2016 | China |
| 182 | DQ987598.1 | VP1 | 2016 | China |
| 183 | DQ987597.1 | VP1 | 2016 | China |
| 184 | DQ987596.1 | VP1 | 2016 | China |
| 185 | DQ987595.1\_c | VP1 | 2016 | China |
| 186 | DQ677523.1 | VP1 | 2016 | China |
| 187 | DQ677521.1 | NP1 | 660 | China |
| 188 | DQ494202.1 | NP1 | 660 | China |
| 189 | DQ494200.1 | NP1 | 660 | China |
| 190 | EU078168.1 | VP2 | 1629 | Thailand |
| 191 | EU429804.1 | VP2 | 1629 | USA |
| 192 | DQ494204.1 | NP1 | 660 | China |
| 193 | DQ457414.1 | NP1 | 660 | China |
| 194 | MH427515.1 | NP1 | 390 | Saudi Arabia |
| 195 | JQ964116.1 | NS1 | 1923 | Russia |
| 196 |  | NP1 | 648 | Russia |
| 197 |  | VP1 | 2004 | Russia |
| 198 |  | VP2 | 1617 | Russia |
| 199 | JQ964115.1 | NS1 | 1923 | Russia |
| 200 |  | NP1 | 648 | Russia |
| 201 |  | VP1 | 2004 | Russia |
| 202 |  | VP2 | 1617 | Russia |
| 203 | JQ964114.1 | NS1 | 1920 | Russia |
| 204 |  | NP1 | 660 | Russia |
| 205 |  | VP1 | 2016 | Russia |
| 206 |  | VP2 | 1629 | Russia |
| 207 | KP242037.1 | NS1 | 1920 | Thailand |
| 208 |  | NP1 | 660 | Thailand |
| 209 |  | VP1 | 2016 | Thailand |
| 210 |  | VP2 | 1629 | Thailand |
| 211 | JQ513510.1 | VP1 | 2016 | Greece |
| 212 |  | VP2 | 1629 | Greece |
| 213 | JQ513509.1 | VP1 | 2016 | Greece |
| 214 |  | VP2 | 1629 | Greece |
| 215 | JQ513508.1 | VP1 | 2016 | Greece |
| 216 |  | VP2 | 1629 | Greece |
| 217 | JQ513507.1 | VP1 | 2016 | Greece |
| 218 |  | VP2 | 1629 | Greece |
| 219 | JQ513506.1 | VP1 | 2016 | Greece |
| 220 |  | VP2 | 1629 | Greece |
| 221 | JQ513505.1 | VP1 | 2016 | Greece |
| 222 |  | VP2 | 1629 | Greece |
| 223 | JQ513504.1 | VP1 | 2016 | Greece |
| 224 |  | VP2 | 1629 | Greece |
| 225 | JQ513503.1 | VP1 | 2016 | Greece |
| 226 |  | VP2 | 1629 | Greece |
| 227 | JQ513502.1 | VP1 | 2016 | Greece |
| 228 |  | VP2 | 1629 | Greece |
| 229 | JQ513501.1 | VP1 | 2016 | Greece |
| 230 |  | VP2 | 1629 | Greece |
| 231 | JQ513500.1 | VP1 | 2016 | Greece |
| 232 |  | VP2 | 1629 | Greece |
| 233 | JQ513499.1 | VP1 | 2016 | Greece |
| 234 |  | VP2 | 1629 | Greece |
| 235 | JQ513498.1 | VP1 | 2016 | Greece |
| 236 |  | VP2 | 1629 | Greece |
| 237 | JQ513497.1 | VP1 | 2016 | Greece |
| 238 |  | VP2 | 1629 | Greece |
| 239 | JQ513496.1 | VP1 | 2016 | Greece |
| 240 |  | VP1 | 1629 | Greece |
| 241 | JQ513495.1 | VP2 | 2016 | Greece |
| 242 |  | VP1 | 1629 | Greece |
| 243 | JQ513494.1 | VP2 | 2016 | Greece |
| 244 |  | VP1 | 1629 | Greece |
| 245 | JQ513493.1 | VP2 | 2016 | Greece |
| 246 |  | VP1 | 1629 | Greece |
| 247 | JQ513492.1 | VP2 | 2016 | Greece |
| 248 |  | VP1 | 1629 | Greece |
| 249 | JQ513491.1 | VP2 | 2016 | Greece |
| 250 |  | VP1 | 1629 | Greece |
| 251 | JQ513490.1 | VP2 | 2016 | Greece |
| 252 |  | VP1 | 1629 | Greece |
| 253 | JQ513489.1 | VP2 | 2016 | Greece |
| 254 |  | VP1 | 1629 | Greece |
| 255 | JQ513488.1 | VP2 | 2016 | Greece |
| 256 |  | VP1 | 1629 | Greece |
| 257 | JQ513487.1 | VP2 | 2016 | Greece |
| 258 |  | VP1 | 1629 | Greece |
| 259 | JQ513486.1 | VP2 | 2016 | Greece |
| 260 |  | VP1 | 1629 | Greece |
| 261 | JQ513485.1 | VP2 | 2016 | Greece |
| 262 |  | VP1 | 1629 | Greece |
| 263 | GQ403983.1 | VP1 | 2016 | China |
| 264 | GQ403982.1 | VP1 | 2016 | China |
| 265 | GQ403981.1 | VP1 | 2016 | China |
| 266 | GQ403980.1 | VP1 | 2016 | China |
| 267 | GQ403979.1 | VP1 | 2016 | China |
| 268 | GQ403978.1 | VP1 | 2016 | China |
| 269 | GQ403977.1 | VP1 | 2016 | China |
| 270 | GQ403976.1 | VP1 | 2016 | China |
| 271 | GQ403975.1 | VP1 | 2016 | China |
| 272 | GQ403974.1 | VP1 | 2016 | China |
| 273 | GQ403973.1 | VP1 | 2016 | China |
| 274 | GQ403972.1 | VP1 | 2016 | China |
| 275 | GQ403971.1 | VP1 | 2016 | China |
| 276 | GQ403970.1 | VP1 | 2016 | China |
| 277 | GQ403969.1 | VP1 | 2016 | China |
| 278 | GQ403968.1 | VP1 | 2016 | China |
| 279 | GQ403967.1 | VP1 | 2016 | China |
| 280 | FJ560720.1 | NS1 | 1920 | Germany |
| 281 |  | NP-1 | 660 | Germany |
| 282 |  | VP1 | 2016 | Germany |
| 283 |  | VP2 | 1629 | Germany |
| 284 | KP710213.1 | NS1 | 1920 | China |
| 285 |  | NP1 | 660 | China |
| 286 |  | VP1 | 2016 | China |
| 287 |  | VP2 | 1629 | China |
| 288 | KP710212.1 | NS1 | 1920 | China |
| 289 |  | NP1 | 660 | China |
| 290 |  | VP1 | 2016 | China |
| 291 |  | VP2 | 1629 | China |
| 292 | KP710211.1 | NS1 | 1920 | China |
| 293 |  | NP1 | 660 | China |
| 294 |  | VP1 | 2016 | China |
| 295 |  | VP2 | 1629 | China |
| 296 | KP710210.1 | NS1 | 1920 | China |
| 297 |  | NP1 | 660 | China |
| 298 |  | VP1 | 2016 | China |
| 299 |  | VP2 | 1629 | China |
| 300 | KP710209.1 | NS1 | 1920 | China |
| 301 |  | NP1 | 660 | China |
| 302 |  | VP1 | 2016 | China |
| 303 |  | VP2 | 1629 | China |
| 304 | KP710208.1 | NS1 | 1920 | China |
| 305 |  | NP1 | 660 | China |
| 306 |  | VP1 | 2016 | China |
| 307 |  | VP2 | 1629 | China |
| 308 | KP710207.1 | NS1 | 1920 | China |
| 309 |  | NP1 | 660 | China |
| 310 |  | VP1 | 2016 | China |
| 311 |  | VP2 | 1629 | China |
| 312 | KP710206.1 | NS1 | 1920 | China |
| 313 |  | NP1 | 660 | China |
| 314 |  | VP1 | 2016 | China |
| 315 |  | VP2 | 1629 | China |
| 316 | KP710205.1 | NS1 | 1920 | China |
| 317 |  | NP1 | 660 | China |
| 318 |  | VP1 | 2016 | China |
| 319 |  | VP2 | 1629 | China |
| 320 | KP710204.1 | NS1 | 1920 | China |
| 321 |  | NP1 | 660 | China |
| 322 |  | VP1 | 2016 | China |
| 323 |  | VP2 | 1629 | China |
| 324 | KP710203.1 | NS1 | 1920 | China |
| 325 |  | NP1 | 660 | China |
| 326 |  | VP1 | 2016 | China |
| 327 |  | VP2 | 1629 | China |
| 328 | KP710202.1 | NS1 | 1920 | China |
| 329 |  | NP1 | 660 | China |
| 330 |  | VP1 | 2016 | China |
| 331 |  | VP2 | 1629 | China |
| 332 | KP710201.1 | NS1 | 1920 | China |
| 333 |  | NP1 | 660 | China |
| 334 |  | VP1 | 2016 | China |
| 335 |  | VP2 | 1629 | China |
| 336 | KP710200.1 | NS1 | 1920 | China |
| 337 |  | NP1 | 660 | China |
| 338 |  | VP1 | 2016 | China |
| 339 |  | VP2 | 1629 | China |
| 340 | KP710199.1 | NS1 | 1920 | China |
| 341 |  | NP1 | 660 | China |
| 342 |  | VP1 | 2016 | China |
| 343 |  | VP2 | 1629 | China |
| 344 | KX373885.1 | NS1 | 1920 | Mexico |
| 345 |  | NP1 | 660 | Mexico |
| 346 |  | VP1 | 2016 | Mexico |
| 347 |  | VP2 | 1629 | Mexico |
| 348 | KX373884.1 | NS1 | 1920 | Mexico |
| 349 |  | NP1 | 660 | Mexico |
| 350 |  | VP1 | 2016 | Mexico |
| 351 |  | VP2 | 1629 | Mexico |
| 352 | KM464731.1 | NS1 | 1920 | China |
| 353 |  | NP1 | 660 | China |
| 354 |  | VP1 | 2016 | China |
| 355 |  | VP2 | 1629 | China |
| 356 | KM464730.1 | NS1 | 1920 | China |
| 357 |  | NP1 | 660 | China |
| 358 |  | VP1 | 2016 | China |
| 359 |  | VP2 | 1629 | China |
| 360 | KM464728.1 | NS1 | 1920 | China |
| 361 |  | NP1 | 660 | China |
| 362 |  | VP1 | 2016 | China |
| 363 |  | VP2 | 1629 | China |
| 364 | KM464729.1 | NS1 | 1920 | China |
| 365 |  | NP1 | 660 | China |
| 366 | JX887482.1 | NS1 | 1920 | China |
| 367 |  | NP1 | 660 | China |
| 368 |  | VP1 | 2016 | China |
| 369 |  | VP2 | 1629 | China |
| 370 | JX887481.1 | NS1 | 1920 | China |
| 371 |  | NP1 | 660 | China |
| 372 |  | VP1 | 2016 | China |
| 373 |  | VP2 | 1629 | China |
| 374 | JX887480.1 | NS1 | 1920 | China |
| 375 |  | NP1 | 660 | China |
| 376 |  | VP1 | 2016 | China |
| 377 |  | VP2 | 1629 | China |
| 378 | JQ411251.1 | NS1 | 2346 | China |
| 379 |  | NS1 | 1920 | China |
| 380 |  | NP1 | 660 | China |
| 381 |  | VP1 | 2016 | China |
| 382 |  | VP2 | 1629 | China |
| 383 | GQ455988.1 | NS1 | 1920 | China |
| 384 |  | NP1 | 660 | China |
| 385 |  | VP1 | 2016 | China |
| 386 |  | VP2 | 1629 | China |
| 387 | GQ455987.1 | NS1 | 1920 | China |
| 388 |  | NP1 | 660 | China |
| 389 |  | VP1 | 2016 | China |
| 390 |  | VP2 | 1629 | China |
| 391 | EF203922.1 | NS1 | 1920 | Thailand |
| 392 |  | NP1 | 660 | Thailand |
| 393 |  | VP1 | 2016 | Thailand |
| 394 |  | VP2 | 1629 | Thailand |
| 395 | EF203921.1 | NS1 | 1920 | Thailand |
| 396 |  | NP1 | 660 | Thailand |
| 397 |  | VP1 | 2016 | Thailand |
| 398 |  | VP2 | 1629 | Thailand |
| 399 | EF203920.1 | NS1 | 1920 | Thailand |
| 400 |  | NP1 | 660 | Thailand |
| 401 |  | VP1 | 2016 | Thailand |
| 402 |  | VP2 | 1629 | Thailand |
| 403 | GQ926983.1 | NS1 | 1920 | China |
| 404 |  | NP1 | 660 | China |
| 405 |  | VP1 | 2016 | China |
| 406 |  | VP2 | 1629 | China |
| 407 | GQ926981.1 | NS1 | 1920 | China |
| 408 |  | NP1 | 660 | China |
| 409 |  | VP1 | 2016 | China |
| 410 |  | VP2 | 1629 | China |
| 411 | GQ926982.1 | NS1 | 1920 | China |
| 412 |  | NP1 | 660 | China |
| 413 |  | VP1 | 2016 | China |
| 414 |  | VP2 | 1629 | China |
| 415 | DQ457413.1 | NS1 | 1920 | China |
| 416 |  | NP1 | 660 | China |
| 417 |  | VP1 | 2016 | China |
| 418 |  | VP2 | 1629 | China |
| 419 | KJ649742.1 | NS1 | 1923 | Russia |
| 420 |  | NP1 | 645 | Russia |
| 421 |  | VP1 | 2013 | Russia |
| 422 |  | VP2 | 1626 | Russia |
| 423 | KJ649741.1 | NS1 | 1923 | Russia |
| 424 |  | NP1 | 645 | Russia |
| 425 |  | VP1 | 2013 | Russia |
| 426 |  | VP2 | 1626 | Russia |
| 427 | KU557406.1 | NS1 | 1920 | Egypt |
| 428 |  | NP1 | 660 | Egypt |
| 429 |  | VP1 | 2016 | Egypt |
| 430 |  | VP2 | 1629 | Egypt |
| 431 | KU557404.1 | NS1 | 1920 | Egypt |
| 432 |  | NP1 | 660 | Egypt |
| 433 |  | VP1 | 2016 | Egypt |
| 434 |  | VP2 | 1629 | Egypt |
| 435 | DQ988933.1 | NS1 | 1920 | China |
| 436 |  | NP | 660 | China |
| 437 |  | VP1 | 2016 | China |
| 438 |  | VP2 | 1629 | China |
| 439 | KJ684078.1 | NS1 | 1920 | China |
| 440 | KJ684077.1 | NS1 | 1920 | China |
| 441 | KJ684076.1 | NP1 | 660 | China |
| 442 |  | VP2 | 1629 | China |
| 443 | KJ684075.1 | NS1 | 1920 | China |
| 444 |  | NP1 | 660 | China |
| 445 |  | VP1 | 2016 | China |
| 446 |  | VP2 | 1629 | China |
| 447 | KJ684074.1 | NP1 | 660 | China |
| 448 |  | VP2 | 1629 | China |
| 449 | KJ684073.1 | NS1 | 1920 | China |
| 450 |  | NP1 | 660 | China |
| 451 |  | VP1 | 2016 | China |
| 452 |  | VP2 | 1629 | China |
| 453 | KJ684071.1 | NS1 | 1920 | China |
| 454 |  | VP1 | 2016 | China |
| 455 |  | VP2 | 1629 | China |
| 456 | KJ684072.1 | NS1 | 1920 | China |
| 457 |  | NP1 | 660 | China |
| 458 |  | VP1 | 2016 | China |
| 459 |  | VP2 | 1629 | China |
| 460 | KJ684070.1 | NS1 | 1920 | China |
| 461 |  | NP1 | 660 | China |
| 462 | KJ684069.1 | NS1 | 1920 | China |
| 463 |  | NP1 | 660 | China |
| 464 |  | VP1 | 2016 | China |
| 465 |  | VP2 | 1629 | China |
| 466 | KJ684068.1 | NS1 | 1920 | China |
| 467 |  | NP1 | 660 | China |
| 468 |  | VP1 | 2016 | China |
| 469 |  | VP2 | 1629 | China |
| 470 | KJ684067.1 | NS1 | 1920 | China |
| 471 |  | NP1 | 660 | China |
| 472 | KJ684066.1 | NS1 | 1920 | China |
| 473 |  | NP1 | 660 | China |
| 474 |  | VP1 | 2016 | China |
| 475 |  | VP2 | 1629 | China |
| 476 | KJ684065.1 | NS1 | 1920 | China |
| 477 |  | NP1 | 660 | China |
| 478 |  | VP1 | 2016 | China |
| 479 |  | VP2 | 1629 | China |
| 480 | FJ695472.1 | NS1 | 1920 | Germany |
| 481 |  | NP | 660 | Germany |
| 482 |  | VP1 | 2016 | Germany |
| 483 |  | VP2 | 1629 | Germany |
| 484 | KC823115.1 | NS1 | 1920 | Ireland |
| 485 |  | NP1 | 660 | Ireland |
| 486 |  | VP1 | 2016 | Ireland |
| 487 |  | VP2 | 1629 | Ireland |
| 488 | JN632519.1 | NS1 | 1920 | China |
| 489 |  | NP1 | 660 | China |
| 490 |  | VP1 | 2016 | China |
| 491 |  | VP2 | 1629 | China |
| 492 | JN632518.1 | NS1 | 1920 | China |
| 493 |  | NP1 | 660 | China |
| 494 |  | VP1 | 2016 | China |
| 495 |  | VP2 | 1629 | China |
| 496 | JN632517.1 | NS1 | 1920 | China |
| 497 |  | NP1 | 660 | China |
| 498 |  | VP1 | 2016 | China |
| 499 |  | VP2 | 1629 | China |
| 500 | JN632516.1 | NS1 | 1920 | China |
| 501 |  | NP1 | 660 | China |
| 502 |  | VP1 | 2016 | China |
| 503 |  | VP2 | 1629 | China |
| 504 | JN632515.1 | NS1 | 1920 | China |
| 505 |  | NP1 | 660 | China |
| 506 |  | VP1 | 2016 | China |
| 507 |  | VP2 | 1629 | China |
| 508 | JN632514.1 | NS1 | 1920 | China |
| 509 |  | NP1 | 660 | China |
| 510 |  | VP1 | 2016 | China |
| 511 |  | VP2 | 1629 | China |
| 512 | JN632513.1 | NS1 | 1920 | China |
| 513 |  | NP1 | 660 | China |
| 514 |  | VP1 | 2016 | China |
| 515 |  | VP2 | 1629 | China |
| 516 | JN632512.1 | NS1 | 1920 | China |
| 517 |  | NP1 | 660 | China |
| 518 |  | VP1 | 2016 | China |
| 519 |  | VP2 | 1629 | China |
| 520 | JN632511.1 | NS1 | 1920 | China |
| 521 |  | NP1 | 660 | China |
| 522 |  | VP1 | 2016 | China |
| 523 |  | VP2 | 1629 | China |
| 524 | JN794566.1 | NS1 | 1920 | China |
| 525 |  | NP1 | 660 | China |
| 526 |  | VP1 | 2016 | China |
| 527 |  | VP2 | 1629 | China |
| 528 | JN794565.1 | NS1 | 1920 | China |
| 529 |  | NP1 | 660 | China |
| 530 |  | VP1 | 2016 | China |
| 531 |  | VP2 | 1629 | China |
| 532 | JN387085.1 | NS1 | 1920 | China |
| 533 |  | NP1 | 660 | China |
| 534 |  | VP1 | 2016 | China |
| 535 |  | VP2 | 1629 | China |
| 536 | JN387084.1 | NS1 | 1920 | China |
| 537 |  | NP1 | 660 | China |
| 538 |  | VP1 | 2016 | China |
| 539 |  | VP2 | 1629 | China |
| 540 | JN387083.1 | NS1 | 1920 | China |
| 541 |  | NP1 | 660 | China |
| 542 |  | VP1 | 2016 | China |
| 543 |  | VP2 | 1629 | China |
| 544 | JN387082.1 | NS1 | 1920 | China |
| 545 |  | NP1 | 660 | China |
| 546 |  | VP1 | 2016 | China |
| 547 |  | VP2 | 1629 | China |
| 548 | JN387081.1 | NS1 | 1920 | China |
| 549 |  | NP1 | 660 | China |
| 550 |  | VP1 | 2016 | China |
| 551 |  | VP2 | 1629 | China |
| 552 | JN387080.1 | NS1 | 1920 | China |
| 553 |  | NP1 | 660 | China |
| 554 |  | VP1 | 2016 | China |
| 555 |  | VP2 | 1629 | China |
| 556 | JN387079.1 | NS1 | 1920 | China |
| 557 |  | NP1 | 660 | China |
| 558 |  | VP1 | 2016 | China |
| 559 |  | VP2 | 1629 | China |
| 560 | JF699044.1 | NS1 | 1920 | Iran |
| 561 |  | NP1 | 660 | Iran |
| 562 |  | VP1 | 2016 | Iran |
| 563 |  | VP2 | 1629 | Iran |
| 564 | JF327789.1 | NS1 | 1920 | Tunisia |
| 565 |  | NP1 | 660 | Tunisia |
| 566 |  | VP1 | 2016 | Tunisia |
| 567 |  | VP2 | 1629 | Tunisia |
| 568 | JF327788.1 | NS1 | 1920 | Tunisia |
| 569 |  | NP1 | 660 | Tunisia |
| 570 |  | VP1 | 2016 | Tunisia |
| 571 |  | VP2 | 1629 | Tunisia |
| 572 | JF327787.1 | NS1 | 1920 | Tunisia |
| 573 |  | NP1 | 660 | Tunisia |
| 574 |  | VP1 | 2016 | Tunisia |
| 575 |  | VP2 | 1629 | Tunisia |
| 576 | JF327786.1 | NS1 | 1920 | Tunisia |
| 577 |  | NP1 | 660 | Tunisia |
| 578 |  | VP1 | 2016 | Tunisia |
| 579 |  | VP2 | 1629 | Tunisia |
| 580 | HQ585888.1 | NS1 | 1920 | Tunisia |
| 581 |  | NP1 | 660 | Tunisia |
| 582 |  | VP1 | 2016 | Tunisia |
| 583 |  | VP2 | 1629 | Tunisia |
| 584 | FJ858259.1 | NS1 | 1920 | Germany |
| 585 |  | NP1 | 660 | Germany |
| 586 |  | VP1 | 2016 | Germany |
| 587 |  | VP2 | 1629 | Germany |
| 588 |  | ORFX | 363 | Germany |
| 589 | GQ925675.1 | NS1 | 2346 | USA |
| 590 |  | NS2 | 1920 | USA |
| 591 |  | NP1 | 660 | USA |
| 592 |  | VP1 | 2016 | USA |
| 593 |  | VP2 | 1629 | USA |
| 594 | FJ496754.1 | NS1 | 1920 | China |
| 595 |  | NP1 | 660 | China |
| 596 |  | VP1 | 2016 | China |
| 597 |  | VP2 | 1629 | China |
| 598 | EF450740.1 | NS1 | 1920 | China |
| 599 |  | NP1 | 660 | China |
| 600 |  | VP1 | 2016 | China |
| 601 |  | VP2 | 1629 | China |
| 602 | EF450739.1 | NS1 | 1920 | China |
| 603 |  | NP1 | 660 | China |
| 604 |  | VP1 | 2016 | China |
| 605 |  | VP2 | 1629 | China |
| 606 | EF450738.1 | NS1 | 1920 | China |
| 607 |  | NP1 | 660 | China |
| 608 |  | VP1 | 2016 | China |
| 609 |  | VP2 | 1629 | China |
| 610 | EF450737.1 | NS1 | 1920 | China |
| 611 |  | NP1 | 660 | China |
| 612 |  | VP1 | 2016 | China |
| 613 |  | VP2 | 1629 | China |
| 614 | EF450736.1 | NS1 | 1920 | China |
| 615 |  | NP1 | 660 | China |
| 616 |  | VP1 | 2016 | China |
| 617 |  | VP2 | 1629 | China |
| 618 | EF450735.1 | NS1 | 1920 | China |
| 619 |  | NP1 | 660 | China |
| 620 |  | VP1 | 2016 | China |
| 621 |  | VP2 | 1629 | China |
| 622 | EF450734.1 | NS1 | 1920 | China |
| 623 |  | NP1 | 660 | China |
| 624 |  | VP1 | 2016 | China |
| 625 |  | VP2 | 1629 | China |
| 626 | EF450733.1 | NS1 | 1920 | China |
| 627 |  | NP1 | 660 | China |
| 628 |  | VP1 | 2016 | China |
| 629 |  | VP2 | 1629 | China |
| 630 | EF450732.1 | NS1 | 1920 | China |
| 631 |  | NP1 | 660 | China |
| 632 |  | VP1 | 2016 | China |
| 633 |  | VP2 | 1629 | China |
| 634 | EF450731.1 | NS1 | 1920 | China |
| 635 |  | NP1 | 660 | China |
| 636 |  | VP1 | 2016 | China |
| 637 |  | VP2 | 1629 | China |
| 638 | EF450730.1 | NS1 | 1920 | China |
| 639 |  | NP1 | 660 | China |
| 640 |  | VP1 | 2016 | China |
| 641 |  | VP2 | 1629 | China |
| 642 | EF450729.1 | NS1 | 1920 | China |
| 643 |  | NP1 | 660 | China |
| 644 |  | VP1 | 2016 | China |
| 645 |  | VP2 | 1629 | China |
| 646 | EF450728.1 | NS1 | 1920 | China |
| 647 |  | NP1 | 660 | China |
| 648 |  | VP1 | 2016 | China |
| 649 |  | VP2 | 1629 | China |
| 650 | EF450727.1 | NS1 | 1920 | China |
| 651 |  | NP1 | 660 | China |
| 652 |  | VP1 | 2016 | China |
| 653 |  | VP2 | 1629 | China |
| 654 | EF450726.1 | NS1 | 1920 | China |
| 655 |  | NP1 | 660 | China |
| 656 |  | VP1 | 2016 | China |
| 657 |  | VP2 | 1629 | China |
| 658 | EF450725.1 | NS1 | 1920 | China |
| 659 |  | NP1 | 660 | China |
| 660 |  | VP1 | 2016 | China |
| 661 |  | VP2 | 1629 | China |
| 662 | EF450724.1 | NS1 | 1920 | China |
| 663 |  | NP1 | 660 | China |
| 664 |  | VP1 | 2016 | China |
| 665 |  | VP2 | 1629 | China |
| 666 | EF450723.1 | NS1 | 1920 | China |
| 667 |  | NP1 | 660 | China |
| 668 |  | VP1 | 2016 | China |
| 669 |  | VP2 | 1629 | China |
| 670 | EF450722.1 | NS1 | 1920 | China |
| 671 |  | NP1 | 660 | China |
| 672 |  | VP1 | 2016 | China |
| 673 |  | VP2 | 1629 | China |
| 674 | EF450721.1 | NS1 | 1920 | China |
| 675 |  | NP1 | 660 | China |
| 676 |  | VP1 | 2016 | China |
| 677 |  | VP2 | 1629 | China |
| 678 | EF450720.1 | NS1 | 1920 | China |
| 679 |  | NP1 | 660 | China |
| 680 |  | VP1 | 2016 | China |
| 681 |  | VP2 | 1629 | China |
| 682 | EF450719.1 | NS1 | 1920 | China |
| 683 |  | NP1 | 660 | China |
| 684 |  | VP1 | 2016 | China |
| 685 |  | VP2 | 1629 | China |
| 686 | EF450718.1 | NS1 | 1920 | China |
| 687 |  | NP1 | 660 | China |
| 688 |  | VP1 | 2016 | China |
| 689 |  | VP2 | 1629 | China |
| 690 | EF450717.1 | NS1 | 1920 | China |
| 691 |  | NP1 | 660 | China |
| 692 |  | VP1 | 2016 | China |
| 693 |  | VP2 | 1629 | China |
| 694 | DQ988934.2 | NS1 | 1920 | China |
| 695 |  | NP1 | 660 | China |
| 696 |  | VP1 | 2016 | China |
| 697 |  | VP2 | 1629 | China |
| 698 | EU984245.1 | NS1 | 1920 | Taiwan |
| 699 |  | NP1 | 660 | Taiwan |
| 700 |  | VP1 | 2016 | Taiwan |
| 701 |  | VP2 | 1629 | Taiwan |
| 702 | EU984244.1 | NS1 | 1920 | Taiwan |
| 703 |  | NP1 | 660 | Taiwan |
| 704 |  | VP1 | 2016 | Taiwan |
| 705 |  | VP2 | 1629 | Taiwan |
| 706 | EU984243.1 | NS1 | 1920 | Taiwan |
| 707 |  | NP1 | 660 | Taiwan |
| 708 |  | VP1 | 2016 | Taiwan |
| 709 |  | VP2 | 1629 | Taiwan |
| 710 | EU984241.1 | NS1 | 1920 | Taiwan |
| 711 |  | NP1 | 660 | Taiwan |
| 712 |  | VP1 | 2016 | Taiwan |
| 713 |  | VP2 | 1629 | Taiwan |
| 714 | EU984242.1 | NS1 | 1920 | Taiwan |
| 715 |  | NP1 | 660 | Taiwan |
| 716 |  | VP1 | 2016 | Taiwan |
| 717 |  | VP2 | 1629 | Taiwan |
| 718 | EU984240.1 | NS1 | 1920 | Taiwan |
| 719 |  | NP1 | 660 | Taiwan |
| 720 |  | VP1 | 2016 | Taiwan |
| 721 |  | VP2 | 1629 | Taiwan |
| 722 | EU984239.1 | NS1 | 1920 | Taiwan |
| 723 |  | NP1 | 660 | Taiwan |
| 724 |  | VP1 | 2016 | Taiwan |
| 725 |  | VP2 | 1629 | Taiwan |
| 726 | EU984238.1 | NS1 | 1920 | Taiwan |
| 727 |  | NP1 | 660 | Taiwan |
| 728 |  | VP1 | 2016 | Taiwan |
| 729 |  | VP2 | 1629 | Taiwan |
| 730 | EU984237.1 | NS1 | 1920 | Taiwan |
| 731 |  | NP1 | 660 | Taiwan |
| 732 |  | VP1 | 2016 | Taiwan |
| 733 |  | VP2 | 1629 | Taiwan |
| 734 | EU984236.1 | NS1 | 1920 | Taiwan |
| 735 |  | NP1 | 660 | Taiwan |
| 736 |  | VP1 | 2016 | Taiwan |
| 737 |  | VP2 | 1629 | Taiwan |
| 738 | EU984235.1 | NS1 | 1920 | Taiwan |
| 739 |  | NP1 | 660 | Taiwan |
| 740 |  | VP1 | 2016 | Taiwan |
| 741 |  | VP2 | 1629 | Taiwan |
| 742 | EU984234.1 | NS1 | 1920 | Taiwan |
| 743 |  | NP1 | 660 | Taiwan |
| 744 |  | VP1 | 2016 | Taiwan |
| 745 |  | VP2 | 1629 | Taiwan |
| 746 | EU984233.1 | NS1 | 1920 | Taiwan |
| 747 |  | NP1 | 660 | Taiwan |
| 748 |  | VP1 | 2016 | Taiwan |
| 749 |  | VP2 | 1629 | Taiwan |
| 750 | EU984232.1 | NS1 | 1920 | Taiwan |
| 751 |  | NP1 | 660 | Taiwan |
| 752 |  | VP1 | 2016 | Taiwan |
| 753 |  | VP2 | 1629 | Taiwan |
| 754 | EU984231.1 | NS1 | 1920 | Taiwan |
| 755 |  | NP1 | 660 | Taiwan |
| 756 |  | VP1 | 2016 | Taiwan |
| 757 |  | VP2 | 1629 | Taiwan |
| 758 | EU262979.1 | NS1 | 1920 | Thailand |
| 759 |  | NP1 | 660 | Thailand |
| 760 |  | VP1 | 2016 | Thailand |
| 761 |  | VP2 | 1629 | Thailand |
| 762 | EU262978.1 | NS1 | 1920 | Thailand |
| 763 |  | NP1 | 660 | Thailand |
| 764 |  | VP1 | 2016 | Thailand |
| 765 |  | VP2 | 1629 | Thailand |
| 766 | DQ340570.1 | NS1 | 1920 | USA |
| 767 |  | NP1 | 660 | USA |
| 768 |  | VP1 | 2016 | USA |
| 769 |  | VP2 | 1629 | USA |
| 770 | MK034749.1 | NS1 | 1920 | Netherlands |
| 771 |  | NP1 | 660 | Netherlands |
| 772 |  | VP1 | 2016 | Netherlands |
| 773 |  | VP2 | 1629 | Netherlands |
| 774 |  | ORFX | 363 | Netherlands |
| 775 | MH121120.1 | NS1 | 1920 | USA |
| 776 |  | NP1 | 660 | USA |
| 777 |  | VP1 | 2016 | USA |
| 778 |  | VP2 | 1629 | USA |
| 779 | MG383450.1 | NS1 | 1923 | Ethiopia |
| 780 |  | NP1 | 648 | Ethiopia |
| 781 |  | VP1 | 2004 | Ethiopia |
| 782 |  | VP2 | 1617 | Ethiopia |
| 783 | MG383449.1 | NP1 | 660 | Ethiopia |
| 784 |  | VP1 | 2016 | Ethiopia |
| 785 |  | VP2 | 1629 | Ethiopia |
| 786 | MG383447.1 | NS1 | 1923 | Ethiopia |
| 787 |  | NP1 | 648 | Ethiopia |
| 788 |  | VP1 | 2004 | Ethiopia |
| 789 |  | VP2 | 1617 | Ethiopia |
| 790 | MG383446.1 | NS1 | 1923 | Ethiopia |
| 791 |  | NP1 | 645 | Ethiopia |
| 792 |  | VP1 | 2013 | Ethiopia |
| 793 |  | VP2 | 1626 | Ethiopia |
| 794 | MF376170.1 | NS1 | 1920 | Belarus |
| 795 |  | NP1 | 660 | Belarus |
| 796 |  | VP1 | 2016 | Belarus |
| 797 |  | VP2 | 1629 | Belarus |
| 798 | MF376169.1 | NS1 | 1920 | Belarus |
| 799 |  | NP1 | 660 | Belarus |
| 800 |  | VP1 | 2016 | Belarus |
| 801 |  | VP2 | 1629 | Belarus |
| 802 | MF376168.1 | NS1 | 1920 | Belarus |
| 803 |  | NP1 | 660 | Belarus |
| 804 |  | VP1 | 2016 | Belarus |
| 805 |  | VP2 | 1629 | Belarus |