Citrullus lanatus GenBank CDS 1 726 726 + . Gene cox1 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 727 1693 967 + . Gene cox1 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 1694 2551 858 + . Gene cox1 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 4258 7876 3619 + . Gene similar to chloroplast LSC region from ndhC-trnV spacer to atpB-rbcL spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 5346 5418 73 + . Gene trnM(CAT)-cp ; Note anticodon:CAT, intact chloroplast-like trnM embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank misc\_feature 11970 12424 455 + . Gene similar to chloroplast LSC region from psbD to psbC ; COLOR black

Citrullus lanatus GenBank misc\_feature 21732 21962 231 + . Gene similar to chloroplast rbcL (LSC) ; COLOR black

Citrullus lanatus GenBank misc\_feature 21963 22398 436 + . Gene similar to chloroplast IR region from rps12 to rps12-rps7 spacer ; COLOR black

Citrullus lanatus GenBank CDS 29747 30628 882 + . Gene rpl2 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 30629 32108 1480 + . Gene rpl2 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 32109 32225 117 + . Gene rpl2 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 32636 32914 279 + . Gene rps19-1 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 32933 33006 74 + . Gene rps3 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 33007 34731 1725 + . Gene rps3 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 34732 36349 1618 + . Gene rps3 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 36321 36731 411 + . Gene rpl16 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 42044 42817 774 - . Gene atp6 ; Note predicted C to U RNA editing creates start codon, predicted C to U RNA editing creates stop codon" /codon\_start=1 /transl\_except=(pos:complement(42815..42817),aa:Met) /transl\_except=(pos:complement(42044..42046),aa:TERM) /product="ATPase subunit 6" /translation="MITPNSPLEQFAILPLIPMNIGNFYFSFTNPSLFMLLTLSLVLL LVHFVTKNGGGNSVPNAWQSLVELIYDFVPNLVNEQIGGLSGNVKQKFFPRISVTFTF SLFRNPQGMIPYSFTVTSHFLITLGLSFSLFIGITIVGFQRNGLHFLSFSLPAGVPLP LAPFLVLLELIPHCFRALSSGIRLFANMMAGHSSVKILSGSAWTMLCMNNLFYFIGDP GPLFIVLALTGLELGVAISQAHVSTISICIYLNDATNLH ; COLOR blue ; type exon

Citrullus lanatus GenBank repeat\_region 42842 50127 7286 - . Gene inverted repeat ; COLOR grey47

Citrullus lanatus GenBank CDS 43947 44231 285 - . Gene sdh3-1 ; Note stop codon not determined ; COLOR blue ; type exon

Citrullus lanatus GenBank tRNA 44457 44528 72 - . Gene trnQ(TTG)-1 ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 45547 45618 72 - . Gene trnG(GCC)-1 ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 50761 50833 73 - . Gene trnM(CAT)-cp ; COLOR red ; type exon

Citrullus lanatus GenBank CDS 52680 53747 1068 + . Gene rps4 ; Note predicted C to U RNA editing creates start codon ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 54400 55017 618 + . Gene nad6 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 56333 56435 103 + . Gene similar to chloroplast LSC region from trnG-trnfM spacer to trnfM-rps14 spacer ; COLOR black

Citrullus lanatus GenBank CDS 67125 67604 480 + . Gene atp8 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 68218 69015 798 + . Gene cox3 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 68943 69350 408 + . Gene sdh4 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 70073 70261 189 - . Gene nad2 exon 5 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 70262 71738 1477 - . Gene nad2 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 71739 72310 572 - . Gene nad2 exon 4 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 72311 74592 2282 - . Gene nad2 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 74593 74753 161 - . Gene nad2 exon 3 ; COLOR blue ; type exon

Citrullus lanatus GenBank tRNA 75277 75359 83 - . Gene trnY(GTA) ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 76361 76432 72 - . Gene trnN(GTT)-cp ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 78204 78274 71 - . Gene trnC(GCA)-2 ; COLOR red ; type exon

Citrullus lanatus GenBank CDS 86724 87080 357 + . Gene nad3 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 87129 87500 372 + . Gene rps12 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 88708 89407 700 + . Gene cox2 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 89408 91441 2034 + . Gene cox2 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 91442 91524 83 + . Gene cox2 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 95666 95778 113 + . Gene similar to chloroplast psbC (LSC) ; COLOR black

Citrullus lanatus GenBank CDS 96687 97073 387 + . Gene nad1 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 109439 109546 108 + . Gene atp6 fragment ; COLOR black

Citrullus lanatus GenBank misc\_feature 110136 110264 129 + . Gene atp9 fragment ; COLOR black

Citrullus lanatus GenBank misc\_feature 110906 111090 185 + . Gene similar to chloroplast rpoC2 ; COLOR black

Citrullus lanatus GenBank CDS 112518 114047 1530 - . Gene atp1 ; COLOR blue ; type exon

Citrullus lanatus GenBank tRNA 121267 121339 73 - . Gene trnC(GCA)-1 ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 130201 130272 72 - . Gene trnE(TTC) ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 131226 131299 74 + . Gene trnH(GTG)-cp ; COLOR red ; type exon

Citrullus lanatus GenBank misc\_feature 132694 132946 253 + . Gene similar to chloroplast LSC region from rps14 to trnfM-rps14 spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 139517 139550 34 - . Gene nad6 fragment ; COLOR black

Citrullus lanatus GenBank misc\_feature 139716 143326 3611 + . Gene similar to chloroplast LSC region from trnL-trnL spacer to ndhC-trnV spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 140379 140451 73 + . Gene trnF(GAA)-cp ; Note anticodon:GAA, intact chloroplast-like trnF embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank rRNA 148378 151548 3171 + . Gene rrn26 ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 151918 151991 74 + . Gene trnfM(CAT) ; COLOR red ; type exon

Citrullus lanatus GenBank misc\_feature 152692 154871 2180 + . Gene similar to chloroplast LSC region from trnL-trnL spacer to rps4 ; COLOR black

Citrullus lanatus GenBank misc\_feature 153988 154060 73 + . Gene trnC(ACA)-cp ; Note anticodon:ACA, intact chloroplast-like trnC embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank tRNA 155601 155681 81 - . Gene trnI(CAT) ; COLOR red ; type exon

Citrullus lanatus GenBank misc\_feature 170166 171491 1326 + . Gene similar to chloroplast LSC region from psbM-trnD spacer to trnT-psbD spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 170502 170575 74 - . Gene trnD(GTC)-cp ; Note anticodon:GTC, intact chloroplast-like trnD embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank CDS 174366 174826 461 + . Gene nad4 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 174827 176229 1403 + . Gene nad4 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 176230 176744 515 + . Gene nad4 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 176745 179828 3084 + . Gene nad4 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 179829 180251 423 + . Gene nad4 exon 3 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 180252 182961 2710 + . Gene nad4 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 182962 183050 89 + . Gene nad4 exon 4 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 183916 185776 1861 + . Gene similar to chloroplast IR region from rps7 to rps12-trnV spacer ; COLOR black

Citrullus lanatus GenBank CDS 185935 186193 259 - . Gene nad1 exon 5 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 186194 189674 3481 - . Gene nad1 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 187056 189062 2007 - . Gene matR ; Note start codon not determined ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 189675 189733 59 - . Gene nad1 exon 4 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 204424 206157 1734 + . Gene ccmFn ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 220862 221131 270 + . Gene similar to chloroplast LSC region from trnG-trnfM spacer to rps14 ; COLOR black

Citrullus lanatus GenBank CDS 222046 222579 534 - . Gene rps1 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 223354 223536 183 - . Gene cox2 fragment ; COLOR black

Citrullus lanatus GenBank misc\_feature 223762 224140 379 + . Gene similar to chloroplast LSC region from psbA to trnH-psbA spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 224184 224763 580 + . Gene similar to chloroplast LSC region from petG-trnW spacer to trnP-psaJ spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 224257 224330 74 - . Gene trnW(CCA)-cp ; Note anticodon:CCA, intact chloroplast-like trnW embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank misc\_feature 224476 224550 75 - . Gene trnP(TGG)-cp ; Note anticodon:TGG, intact chloroplast-like trnP embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank tRNA 227590 227662 73 - . Gene trnK(TTT) ; COLOR red ; type exon

Citrullus lanatus GenBank CDS 230173 230793 621 + . Gene ccmB ; COLOR blue ; type exon

Citrullus lanatus GenBank repeat\_region 234336 241621 7286 + . Gene inverted repeat ; COLOR grey47

Citrullus lanatus GenBank tRNA 238845 238916 72 + . Gene trnG(GCC)-2 ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 239935 240006 72 + . Gene trnQ(TTG)-2 ; COLOR red ; type exon

Citrullus lanatus GenBank CDS 240232 240516 285 + . Gene sdh3-2 ; Note stop codon not determined ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 241646 242218 573 + . Gene nad9 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 242700 242924 225 + . Gene atp9 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 243221 243450 230 + . Gene nad5 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 243451 244298 848 + . Gene nad5 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 244299 245514 1216 + . Gene nad5 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 247269 248777 1509 + . Gene similar to chloroplast LSC region from rpoB-trnC spacer to rpoB ; COLOR black

Citrullus lanatus GenBank CDS 265953 266502 550 - . Gene ccmFc exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 266503 267463 961 - . Gene ccmFc ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 267464 268230 767 - . Gene ccmFc exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 272807 272828 22 + . Gene nad5 exon 3 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 274065 274235 171 + . Gene atp9 fragment ; COLOR black

Citrullus lanatus GenBank CDS 274340 274897 558 + . Gene rpl5 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 275820 276992 1173 + . Gene cob ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 279455 279901 447 + . Gene rps7 ; COLOR blue ; type exon

Citrullus lanatus GenBank tRNA 286845 286919 75 - . Gene trnP(TGG) ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 287216 287289 74 - . Gene trnF(GAA) ; COLOR red ; type exon

Citrullus lanatus GenBank tRNA 287653 287740 88 - . Gene trnS(GCT) ; COLOR red ; type exon

Citrullus lanatus GenBank rRNA 306500 306618 119 - . Gene rrn5 ; COLOR red ; type exon

Citrullus lanatus GenBank rRNA 307210 309067 1858 - . Gene rrn18 ; COLOR red ; type exon

Citrullus lanatus GenBank misc\_feature 311010 311217 208 + . Gene similar to chloroplast rpl32-trnL spacer (SSC) ; COLOR black

Citrullus lanatus GenBank CDS 311224 312072 849 + . Gene mttB ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 321310 322800 1491 + . Gene similar to chloroplast IR/LSC region from rpl2 to trnH-psbA spacer ; COLOR black

Citrullus lanatus GenBank misc\_feature 322701 322774 74 - . Gene trnH(GTG)-cp ; Note anticodon:GTG, intact chloroplast-like trnH embedded within larger region of chloroplast DNA, possibly functional ; COLOR black

Citrullus lanatus GenBank misc\_feature 322811 326632 3822 + . Gene similar to chloroplast LSC region from atpF-atpH spacer to rpoC2 ; COLOR black

Citrullus lanatus GenBank misc\_feature 330722 330778 57 + . Gene matR fragment ; COLOR black

Citrullus lanatus GenBank CDS 330834 331184 351 + . Gene rps13 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 332075 332155 81 + . Gene nad1 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 332156 333595 1440 + . Gene nad1 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 333596 333787 192 + . Gene nad1 exon 3 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 335198 335317 120 + . Gene sdh3 fragment ; COLOR black

Citrullus lanatus GenBank CDS 335932 336084 153 + . Gene nad2 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 336085 337300 1216 + . Gene nad2 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 337301 337692 392 + . Gene nad2 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 338630 338776 147 + . Gene similar to chloroplast ycf2 ; COLOR black

Citrullus lanatus GenBank misc\_feature 343912 343965 54 + . Gene rps19 fragment ; COLOR black

Citrullus lanatus GenBank CDS 344866 345260 395 + . Gene nad5 exon 4 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 345261 346364 1104 + . Gene nad5 ; Note cis-spliced intron ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 346365 346502 138 + . Gene nad5 exon 5 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 348455 348716 262 - . Gene nad7 exon 5 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 348717 350530 1814 - . Gene nad7 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 350531 350774 244 - . Gene nad7 exon 4 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 350775 351835 1061 - . Gene nad7 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 351836 352302 467 - . Gene nad7 exon 3 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 352303 353940 1638 - . Gene nad7 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 353941 354009 69 - . Gene nad7 exon 2 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 354010 354915 906 - . Gene nad7 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 354916 355058 143 - . Gene nad7 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank tRNA 358591 358677 87 - . Gene trnS(TGA) ; COLOR red ; type exon

Citrullus lanatus GenBank misc\_feature 362838 362923 86 - . Gene t-element for generation of 3' mRNA terminus of ccmC gene, see PubMed ID 17488843, similar to chloroplast-like trnI(TAT), with expanded anticodon loop ; COLOR black

Citrullus lanatus GenBank CDS 362964 363662 699 - . Gene ccmC ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 365318 365914 597 - . Gene atp4 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 366130 366432 303 - . Gene nad4L ; COLOR blue ; type exon

Citrullus lanatus GenBank misc\_feature 366675 366719 45 - . Gene sdh3 fragment ; COLOR black

Citrullus lanatus GenBank CDS 376485 376763 279 + . Gene rps19-2 ; COLOR blue ; type exon

Citrullus lanatus GenBank CDS 377834 378083 250 + . Gene rps10 exon 1 ; COLOR blue ; type exon

Citrullus lanatus GenBank intron 378084 378928 845 + . Gene rps10 ; COLOR green ; type intron

Citrullus lanatus GenBank CDS 378929 379011 83 + . Gene rps10 exon 2 ; COLOR blue ; type exon